8641508

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

October 03, 2025

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE RECORDS OF THIS OFFICE OF THE FILE WRAPPER AND CONTENTS OF:

APPLICATION NUMBER: *17/873,096*
FILING DATE: *July 25, 2022*
PATENT NUMBER: *12337716*
ISSUE DATE: *June 24, 2025*

Certified by

DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

PTO/AIA/82A (07-13)
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TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	
Filing Date	July 25, 2022
First Named Inventor	Angel A. Penilla
Title	SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES
Art Unit	
Examiner Name	
Attorney Docket Number	VOLTP018.5.1.C4

SIGNATURE of Applicant or Patent Practitioner

Signature	/Albert Penilla/	Date (Optional)	
Name	Albert S. Penilla	Registration Number	39487
Title (if Applicant is a juristic entity)	attorney		
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date
	July 25, 2022

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☐ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

OR

☑ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☐ The address associated with the above-mentioned Customer Number

OR

☑ The address associated with Customer Number: 25920

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Emerging Automotive, LLC

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☐ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	/Albert Penilla/	Date (Optional)	
Name	Albert S. Penilla		
Title	Officer of Emerging Automotive, LLC		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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PTO/AIA/82C (07-13)
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POWER OF ATTORNEY BY APPLICANT

No more than ten (10) patent practitioners total may be appointed as set forth below by name and registration number. This page need not be submitted if appointing the Patent Practitioner(s) associated with a Customer Number (see form PTO/AIA/82B):

Name	Registration Number
Albert S. Penilla	39487

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PTO/AIA/01 (06-12)
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	Methods and Systems for Processing User Inputs to Generate Recommended Vehicle Settings and Associated Vehicle-Cloud Communication

As the below named inventor, I hereby declare that:

This declaration is directed to:

- [■] The attached application, or
- [ ] United States application or PCT international application number _____

filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Angel A. Penilla Date (Optional) :_____

Signature: /Angel Penilla/

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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LEGAL NAME OF INVENTOR

Inventor: Albert S. Penilla Date (Optional) :_____

Signature: /Albert Penilla/

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES
First Named Inventor/Applicant Name:	Angel A. Penilla
Filer:	Albert S. Penilla
Attorney Docket Number:	VOLTP18.5.1.C4

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	80	80
UTILITY SEARCH FEE	2111	1	350	350
UTILITY EXAMINATION FEE	2311	1	400	400
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**830**

Electronic Acknowledgement Receipt

EFS ID:	46267942
Application Number:	17873096
International Application Number:	
Confirmation Number:	1006
Title of Invention:	SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES
First Named Inventor/Applicant Name:	Angel A. Penilla
Customer Number:	25920
Filer:	Albert S. Penilla
Filer Authorized By:	
Attorney Docket Number:	VOLTP18.5.1.C4
Receipt Date:	25-JUL-2022
Filing Date:	
Time Stamp:	22:34:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$830
RAM confirmation Number	E20227OM35214223
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Specification	VOLTP01851C4_App_Efiled.pdf	319800 6427205fc883acbbddd04b0ed873358184fd4d1f	no	72
Warnings:					
Information:					
2	Drawings-only black and white line drawings	VOLTP018_5drawingsformalEfiled1.pdf	7116486 c149b88582f4dec2523b6ffbe0b7ae132cf6e78c	no	22
Warnings:					
Information:					
3	Application Data Sheet	VOLTP01851_C4_ADS_Efiled.pdf	1433161 ddc5644e92db3fc182eafca016a346c260587d58	no	7
Warnings:					
Information:					
4	Power of Attorney	POA_Efiled.pdf	121403 565b0611f065eda26f4f8de4cb39de30595e1b92	no	4
Warnings:					
Information:					
5	Oath or Declaration filed	DEC_AAP.pdf	173284 39d06708e23f786ec77c157ddced5969d4ba5a0e	no	2
Warnings:					
Information:					
6	Oath or Declaration filed	DEC_ASP.pdf	173291 9269eac5bfd585de7a5043ab78ad43bf2ddf2466	no	2
Warnings:					
Information:					

7	Fee Worksheet (SB06)	fee-info.pdf	43975 2bed83d56f531f4ae7c23f92a8dca32779133c82	no	2

Warnings:	
Information:	
Total Files Size (in bytes):	9381400

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

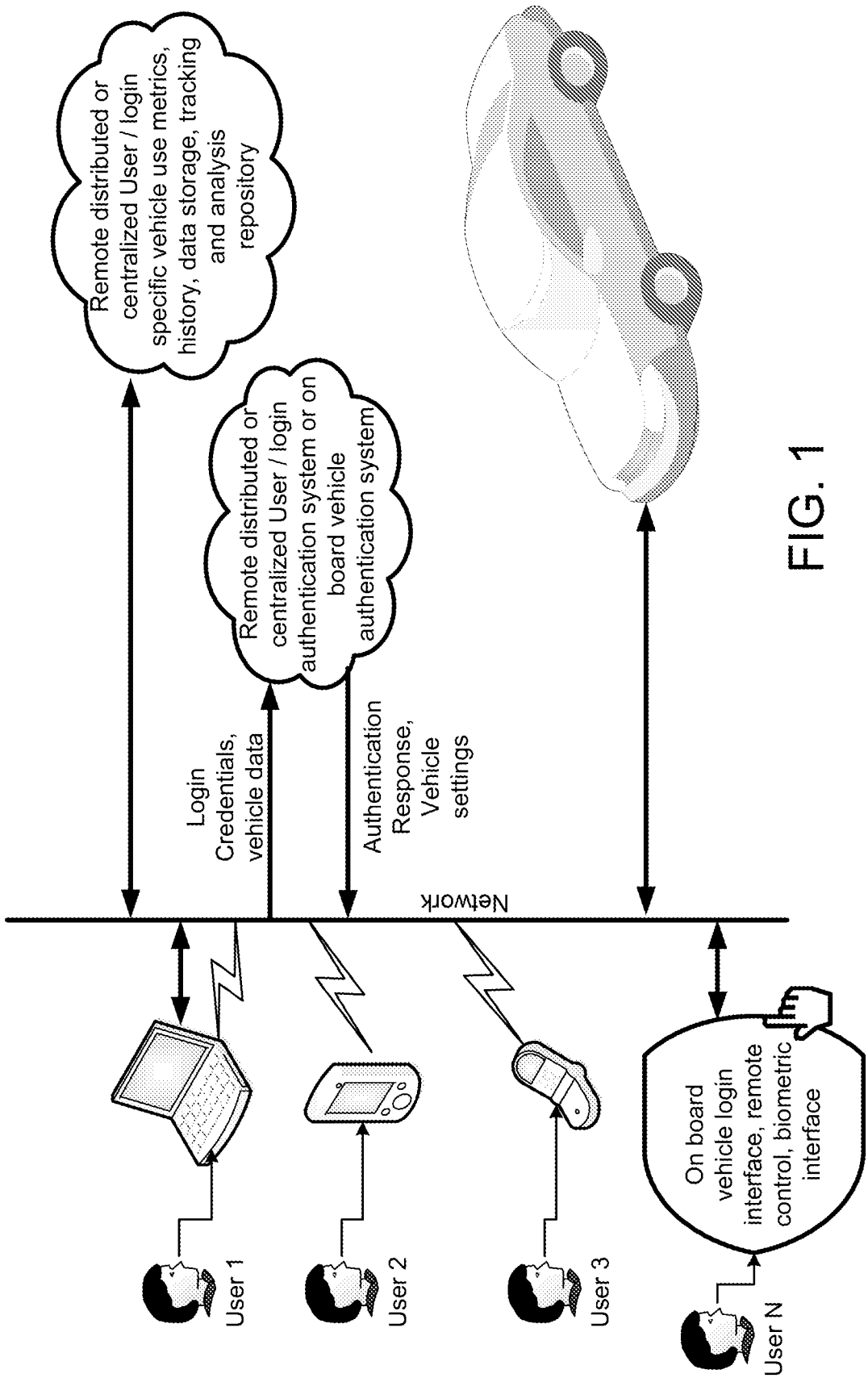

Remote distributed or centralized User / login specific vehicle use metrics, history, data storage, tracking and analysis repository
Remote distributed or centralized User / login authentication system or on board vehicle authentication system
Login Credentials, vehicle data
Authentication Response, Vehicle settings
Network
User 1
User 2
User 3
User N
On board vehicle login interface, remote control, biometric interface

FIG. 1



User 1

User 1 Logins	User 1 Roles	User 1 Vehicles
• Administrator(edit) Add New	• Owner(edit) • Weekend driving(edit) • Commute driving(edit) Add New	• Ford SUV(edit) • Honda Hybrid(edit) Add New



User 2

User 2 Logins	User 2 Roles	User 2 Vehicles
• Child(edit)	• School commute(edit) • Errands(edit)	• Honda Hybrid



User 1

User 2 Logins	User 2 Roles	User 2 Vehicles
• Child(edit) Add New	• School commute(edit) • Errands(edit) Add New	• Honda Hybrid Add New

FIG. 2

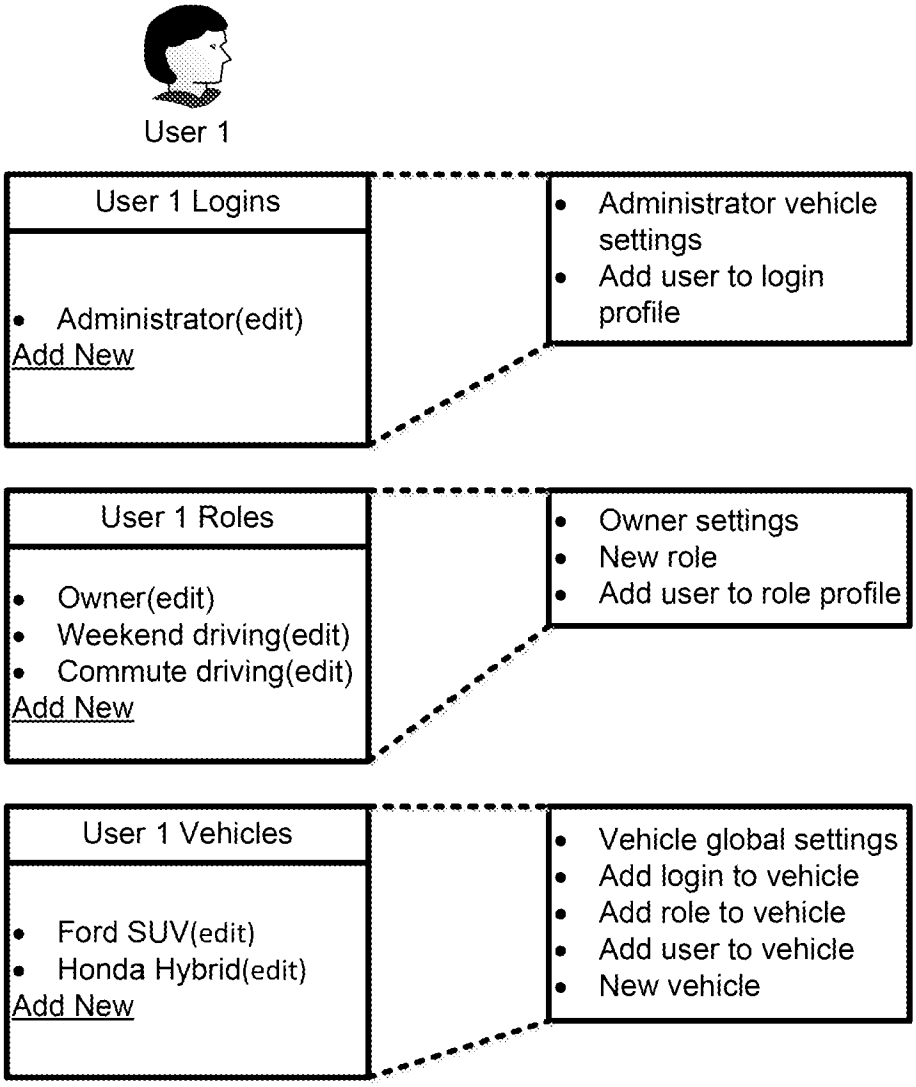

User 1
User 1 Logins
Administrator(edit)
Add New
Administrator vehicle settings
Add user to login profile
User 1 Roles
Owner(edit)
Weekend driving(edit)
Commute driving(edit)
Add New
Owner settings
New role
Add user to role profile
User 1 Vehicles
Ford SUV(edit)
Honda Hybrid(edit)
Add New
Vehicle global settings
Add login to vehicle
Add role to vehicle
Add user to vehicle
New vehicle

FIG. 3



User 2

User 2's login settings for login: CHILD	
Fuel use settings	• Electric battery • Plug in • Fuel • Hybrid
Driving characteristics	• Speed restrictions • Fuel use restrictions
Location based settings	• GPS aided travel restrictions • Map restrictions • Travel radius boundaries • Dynamically load maps • Dynamically load directions • Dynamically load fuel • Dynamically load charge • Dynamically load battery • Fuel purchase location restrictions
Time based use and restrictions	• Day driving • Night driving • Time specific driving
Automatic purchase settings	• Financial institution linking • Fuel purchase settings • Charge time purchase settings • Battery purchase settings • Car wash purchase settings

User editable

Admin or restricted

FIG. 4



User 2

User 1's login settings for login: CHILD	
Tracking & metrics	• Vehicle cameras • Vehicle event recording • Mileage usage characteristics • Top & average speeds • Driving history maps and graphs • Fuel efficiency • Wear and tear notifications
Comfort	• Climate • Seats positions • Seat heater / cooler • Suspension/ride settings • Entry lighting • Remote start / stop
Entertainment	• Radio Memory • Internet access settings • Streaming services
Driving Modes	• Sport • Comfortable • Soft • Off-road • High performance • Economy
Refueling routing and purchase	• Incentive based fuel finder • Refueling availability maps • Offers • History • Metrics

User editable

Admin or restricted

FIG. 5

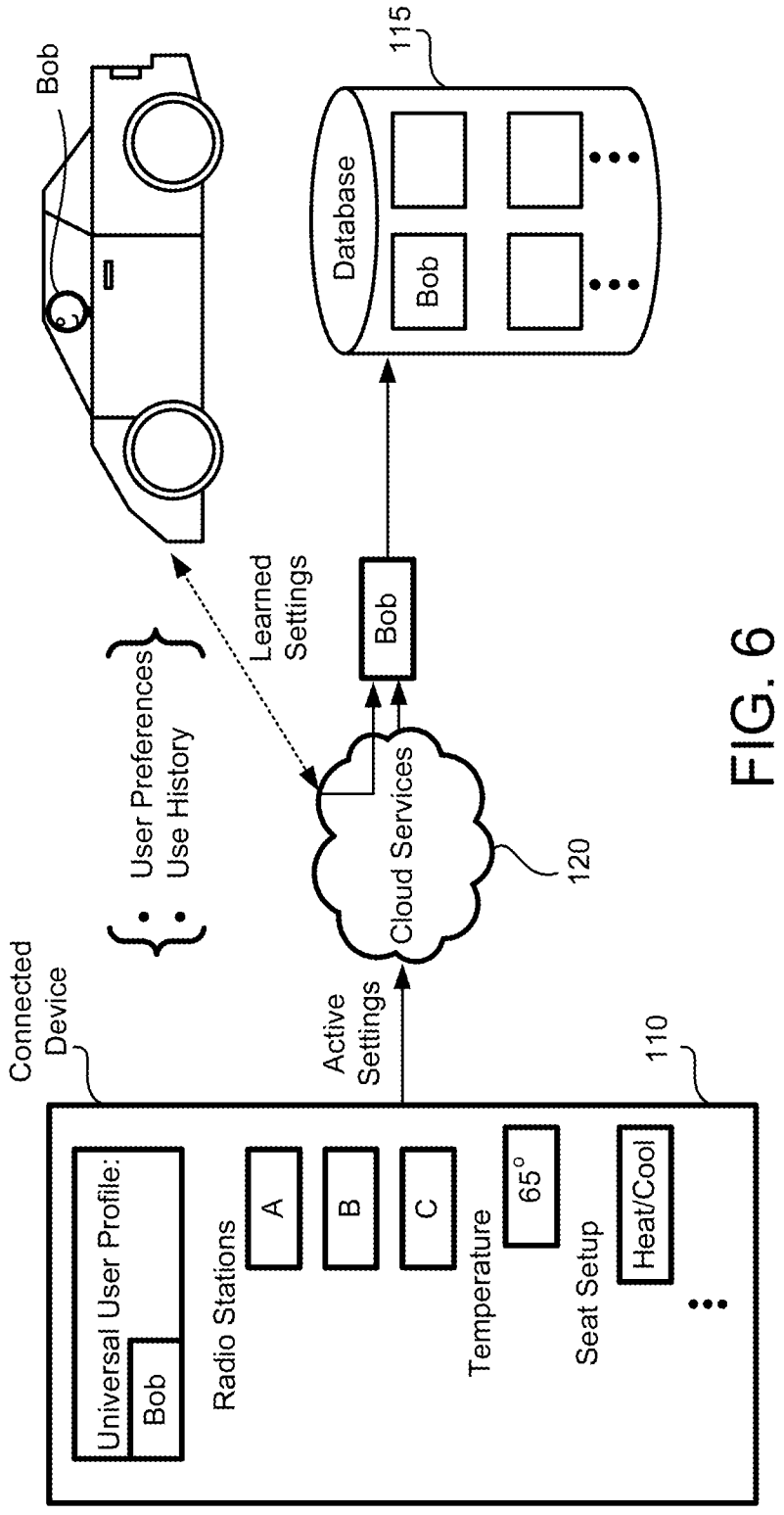

Bob
115
Database
Bob
Learned Settings
User Preferences
Use History
Bob
Cloud Services
120
Connected Device
Active Settings
110
Universal User Profile:
Bob
Radio Stations
A
B
C
Temperature
65°
Seat Setup
Heat/Cool

FIG. 6

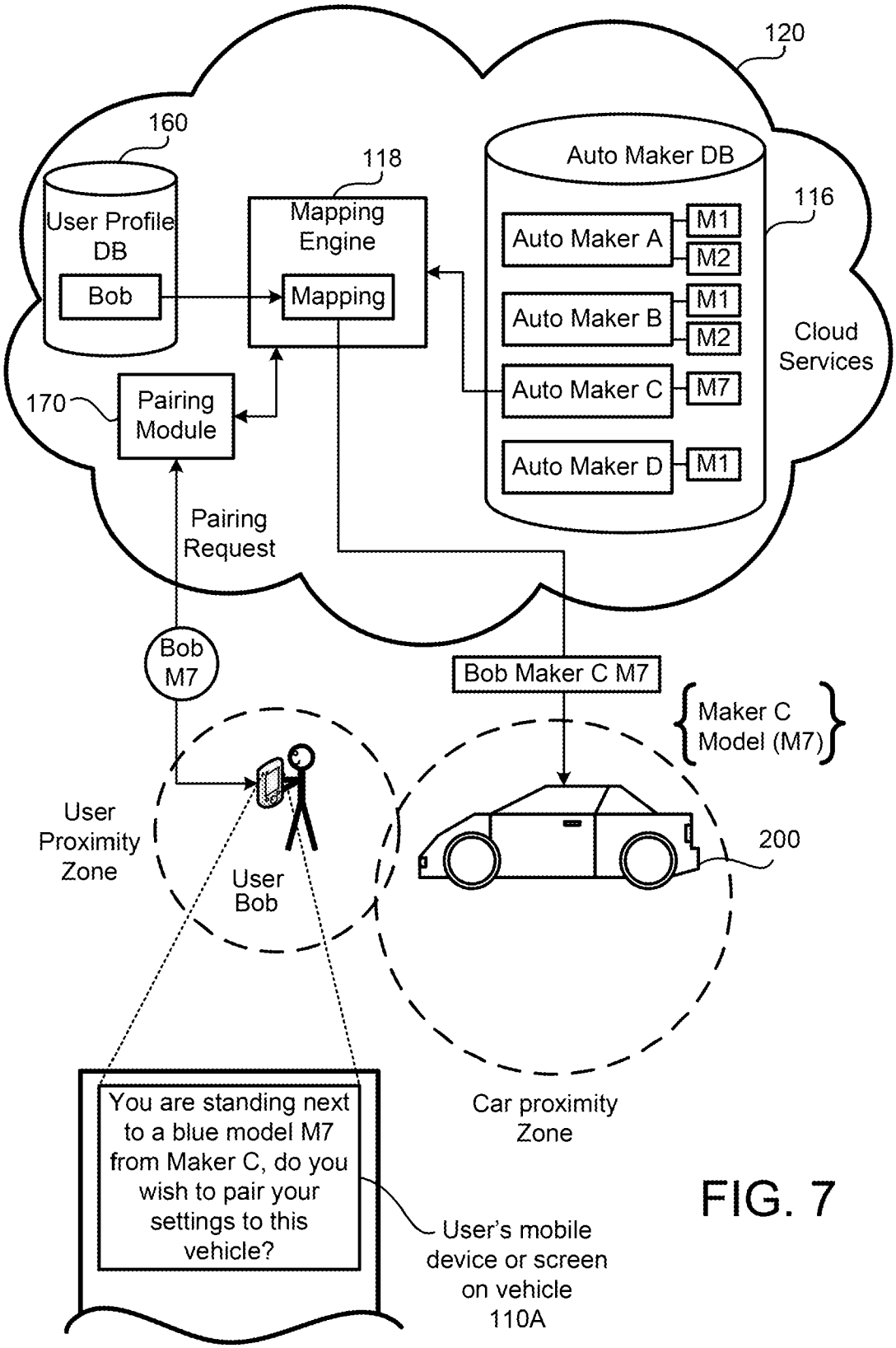
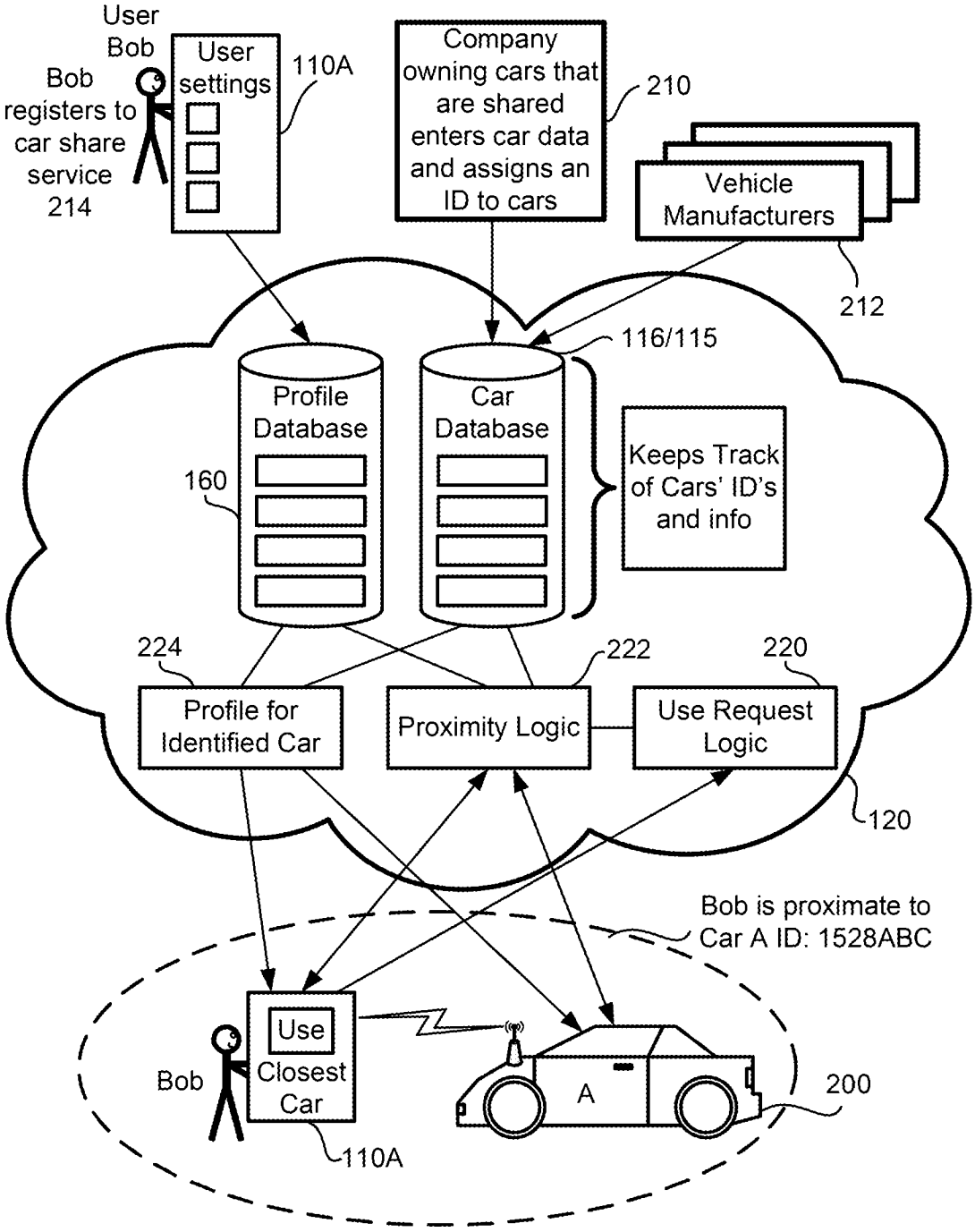

120
160
118
Auto Maker DB
116
User Profile DB
Bob
Mapping Engine
Mapping
Auto Maker A
M1
M2
Auto Maker B
M1
M2
Auto Maker C
M7
Auto Maker D
M1
Cloud Services
170
Pairing Module
Pairing Request
Bob M7
Bob Maker C M7
Maker C Model (M7)
User Proximity Zone
User Bob
200
You are standing next to a blue model M7 from Maker C, do you wish to pair your settings to this vehicle?
User's mobile device or screen on vehicle 110A
Car proximity Zone

FIG. 7



- Car beeps / lights up when enabled
- Opens
- Profile transferred to Car A
- Use of Car A is Managed in Bob's online account
- Payment for use made direct
- Use of Car A is allowed by predefined rules

FIG. 8

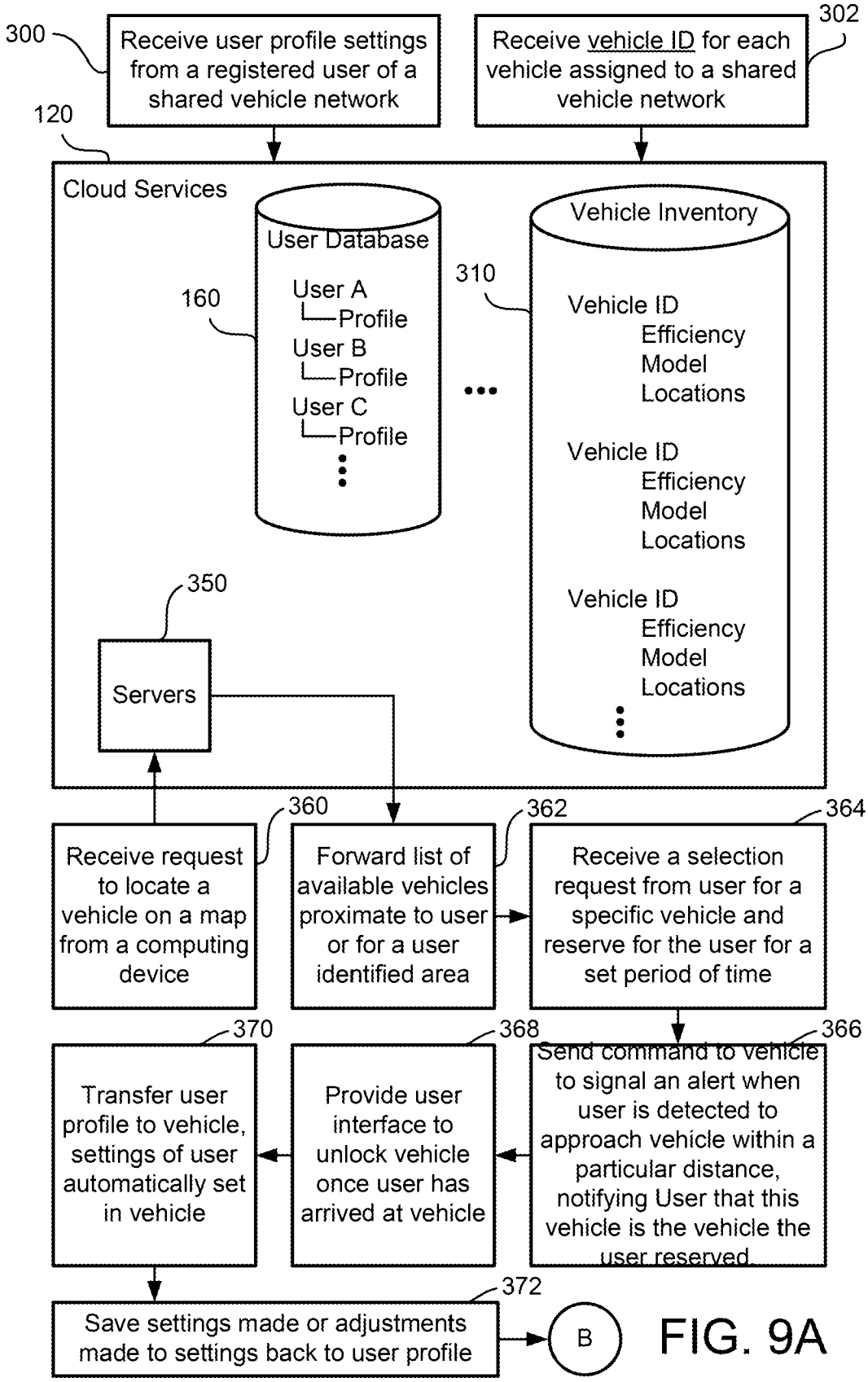

300
Receive user profile settings from a registered user of a shared vehicle network
302
Receive vehicle ID for each vehicle assigned to a shared vehicle network
120
Cloud Services
User Database
160
User A
Profile
User B
Profile
User C
Profile
310
Vehicle Inventory
Vehicle ID
Efficiency
Model
Locations
Vehicle ID
Efficiency
Model
Locations
Vehicle ID
Efficiency
Model
Locations
350
Servers
360
Receive request to locate a vehicle on a map from a computing device
362
Forward list of available vehicles proximate to user or for a user identified area
364
Receive a selection request from user for a specific vehicle and reserve for the user for a set period of time
370
Transfer user profile to vehicle, settings of user automatically set in vehicle
368
Provide user interface to unlock vehicle once user has arrived at vehicle
366
Send command to vehicle to signal an alert when user is detected to approach vehicle within a particular distance, notifying User that this vehicle is the vehicle the user reserved
372
Save settings made or adjustments made to settings back to user profile
B

FIG. 9A

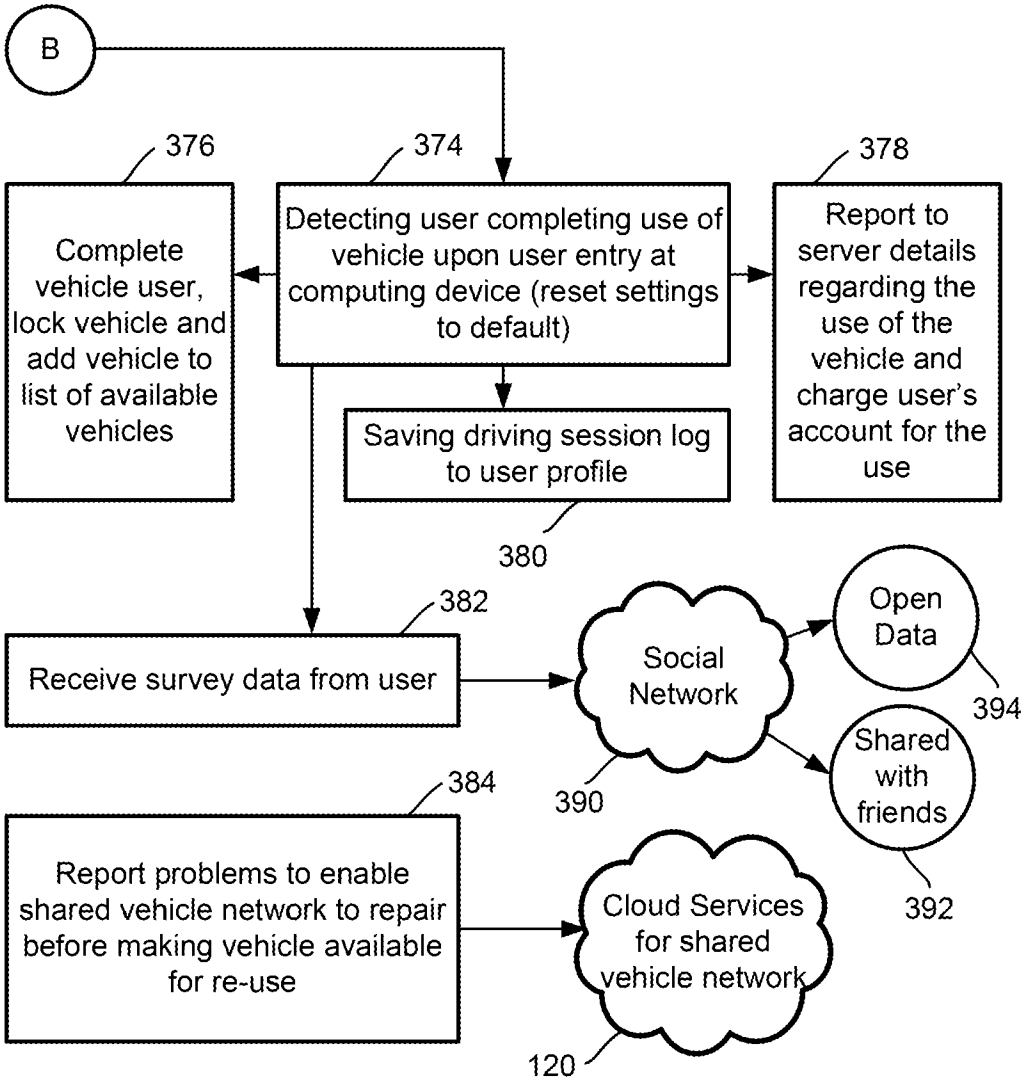

B
376
374
378
Complete vehicle user, lock vehicle and add vehicle to list of available vehicles
Detecting user completing use of vehicle upon user entry at computing device (reset settings to default)
Report to server details regarding the use of the vehicle and charge user's account for the use
Saving driving session log to user profile
380
382
Receive survey data from user
Social Network
Open Data
394
Shared with friends
390
392
384
Report problems to enable shared vehicle network to repair before making vehicle available for re-use
Cloud Services for shared vehicle network
120

FIG. 9B

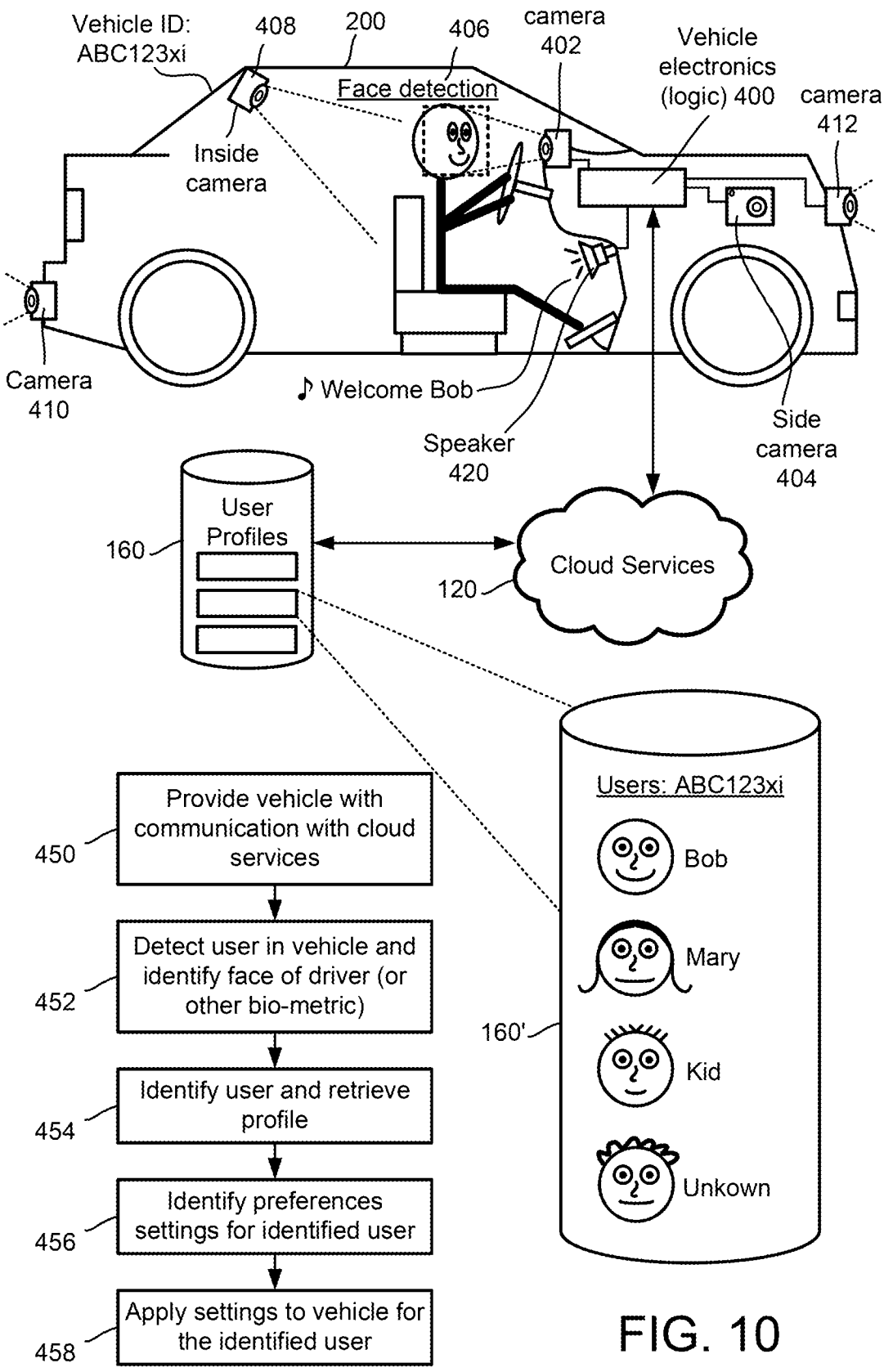

Vehicle ID:
ABC123xi
408
200
406
camera
402
Vehicle
electronics
(logic) 400
camera
412
Face detection
Inside
camera
Camera
410
♪ Welcome Bob
Speaker
420
Side
camera
404
User
Profiles
160
Cloud Services
120
Users: ABC123xi
Bob
Mary
Kid
Unkown
160'
Provide vehicle with communication with cloud services
450
Detect user in vehicle and identify face of driver (or other bio-metric)
452
Identify user and retrieve profile
454
Identify preferences settings for identified user
456
Apply settings to vehicle for the identified user
458

FIG. 10

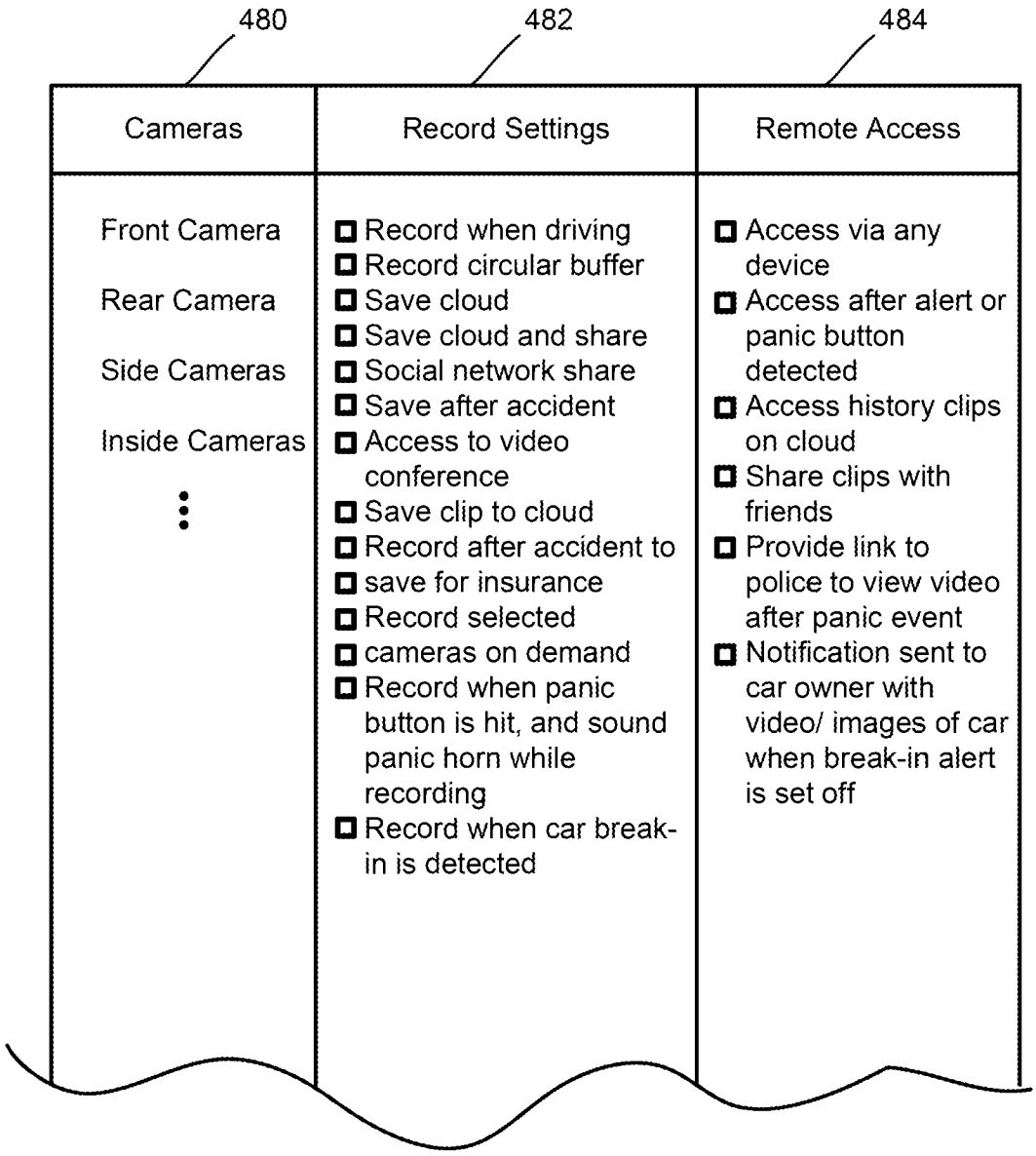

480
482
484
Cameras
Record Settings
Remote Access
Front Camera
Rear Camera
Side Cameras
Inside Cameras
Record when driving
Record circular buffer
Save cloud
Save cloud and share
Social network share
Save after accident
Access to video conference
Save clip to cloud
Record after accident to save for insurance
Record selected cameras on demand
Record when panic button is hit, and sound panic horn while recording
Record when car break-in is detected
Access via any device
Access after alert or panic button detected
Access history clips on cloud
Share clips with friends
Provide link to police to view video after panic event
Notification sent to car owner with video/ images of car when break-in alert is set off

FIG. 11

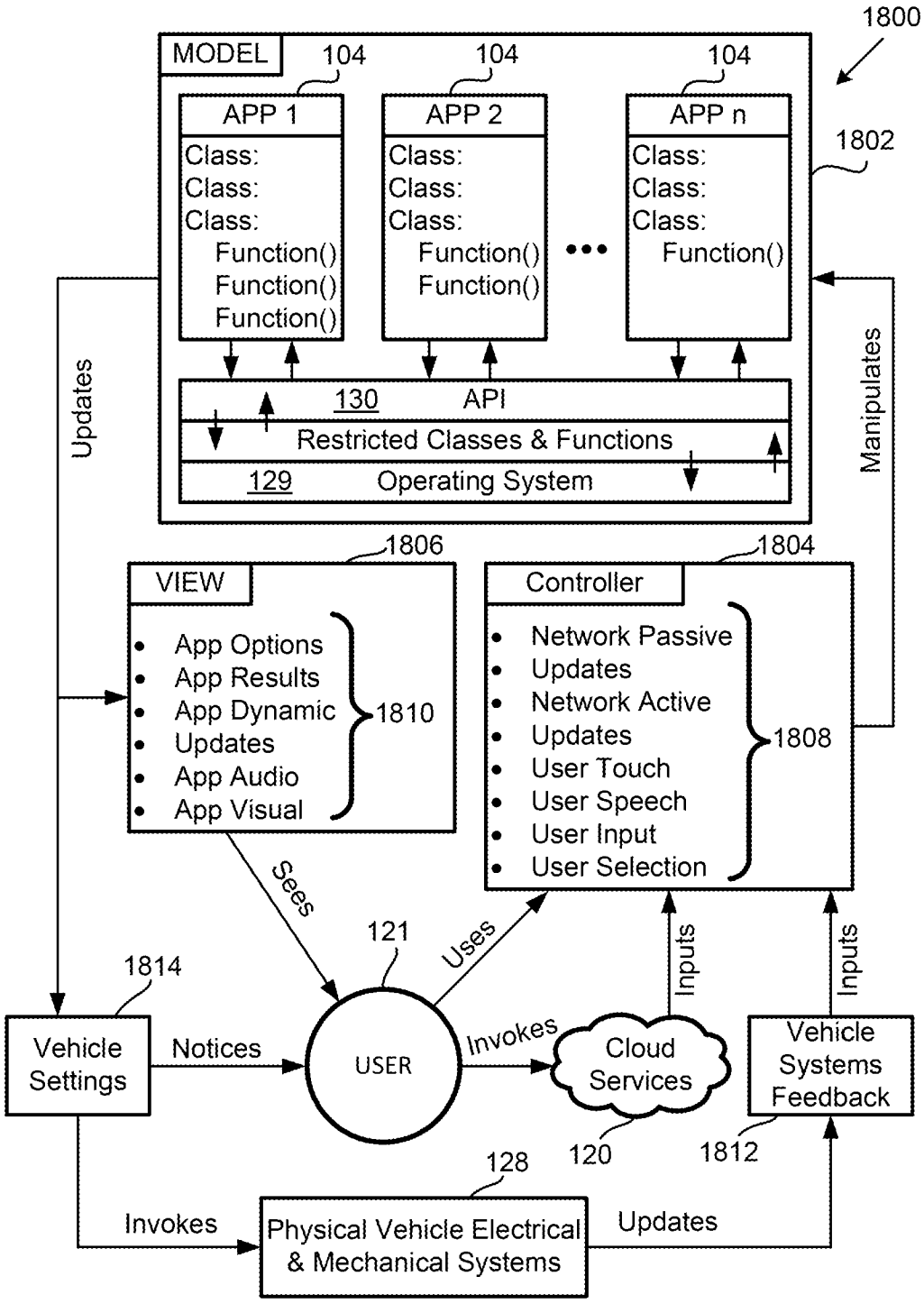

1800
MODEL
104
104
104
APP 1
APP 2
APP n
1802
Class:
Class:
Class:
Function()
Function()
Function()
Class:
Class:
Class:
Function()
Function()
Class:
Class:
Class:
Function()
Updates
Manipulates
130
API
Restricted Classes & Functions
129
Operating System
1806
1804
VIEW
Controller
App Options
App Results
App Dynamic
Updates
App Audio
App Visual
1810
Network Passive
Updates
Network Active
Updates
User Touch
User Speech
User Input
User Selection
1808
Sees
121
Uses
Inputs
Inputs
1814
Vehicle Settings
Notices
USER
Invokes
Cloud Services
Vehicle Systems Feedback
120
1812
128
Invokes
Physical Vehicle Electrical & Mechanical Systems
Updates

FIG. 12

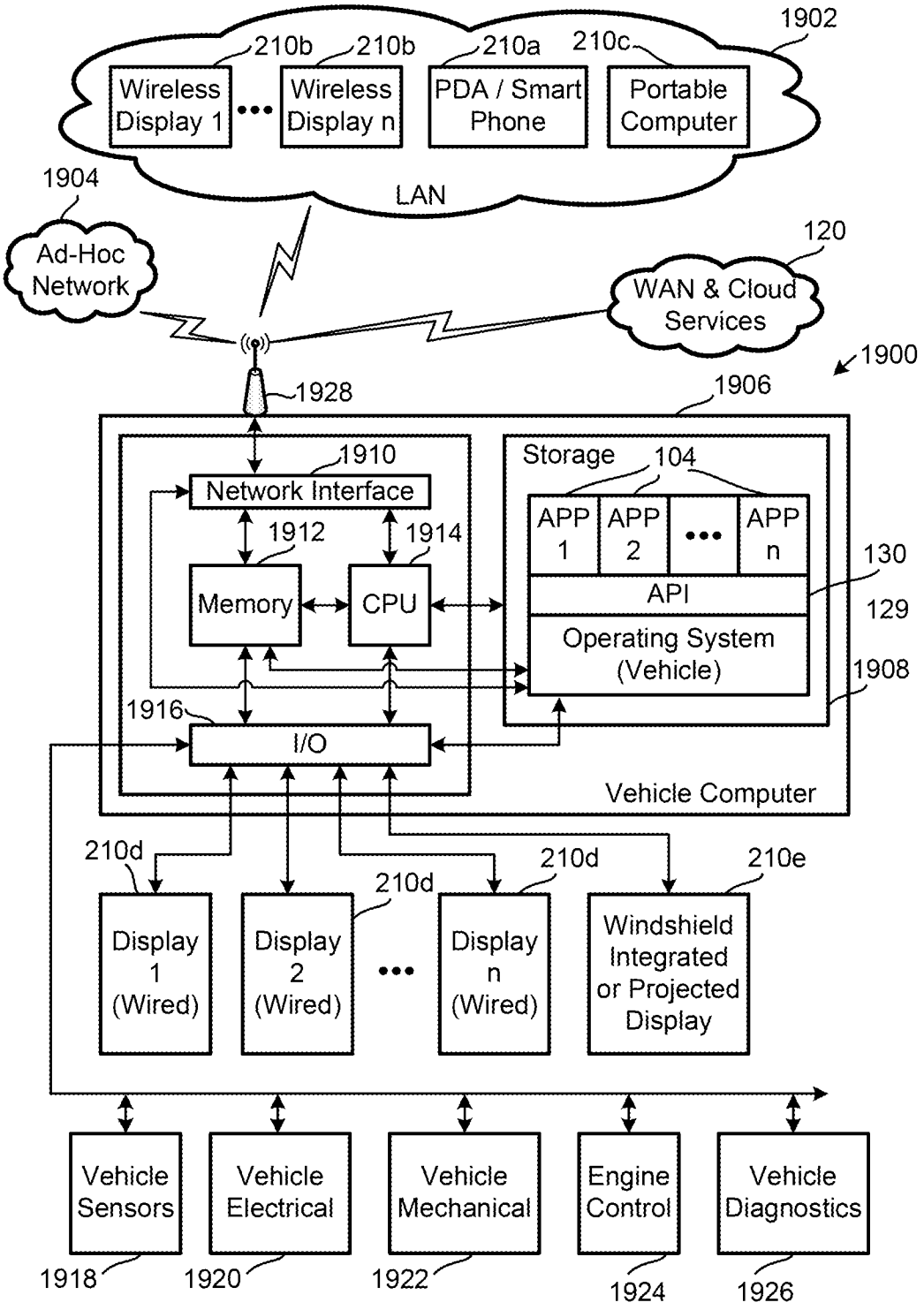

1902
210b
210b
210a
210c
Wireless Display 1
Wireless Display n
PDA / Smart Phone
Portable Computer
LAN
1904
Ad-Hoc Network
120
WAN & Cloud Services
1900
1928
1906
1910
Network Interface
Storage
104
APP 1
APP 2
APP n
1912
1914
Memory
CPU
API
130
129
Operating System (Vehicle)
1908
1916
I/O
Vehicle Computer
210d
210d
210d
210e
Display 1 (Wired)
Display 2 (Wired)
Display n (Wired)
Windshield Integrated or Projected Display
Vehicle Sensors
Vehicle Electrical
Vehicle Mechanical
Engine Control
Vehicle Diagnostics
1918
1920
1922
1924
1926

FIG. 13A

130

Manufacturer API
Class:
HVAC

1950

1954 Data declarations:
currentTempLeft = 60
currentTempRight = 70
StatusAC = True
isAuto = True
isDual = True
displaySkin = modern
scheduleAMtemp(time)
learnedTemp1 = 74
learnedTemp1Time = 803am
learnedTemp1Days = MTWTHF
learnedTemp2 = 60
learnedTemp2Time = 513pm
learnedTemp2Days = MTWTHF
learnedTemp2AC = on
IcePresent = false
fastefrostMode = off
Errors = false

1956 Function Declarations
updateTemp(left,right);
getTempRight(temp);
getTempLeft(temp);
setTempLeft(temp);
setTempLeft(temp);
toggleAC();
toggleAuto();
toggleDual();
toggleSkin(skinID);
scheduleAMTemp(temp, time, date, frequency);
schedulePMTemp(temp,time,date,frequency);
learnTempBackgroundRoutine(temp, time, date, frequency);
updateDisplay()

FIG. 13B

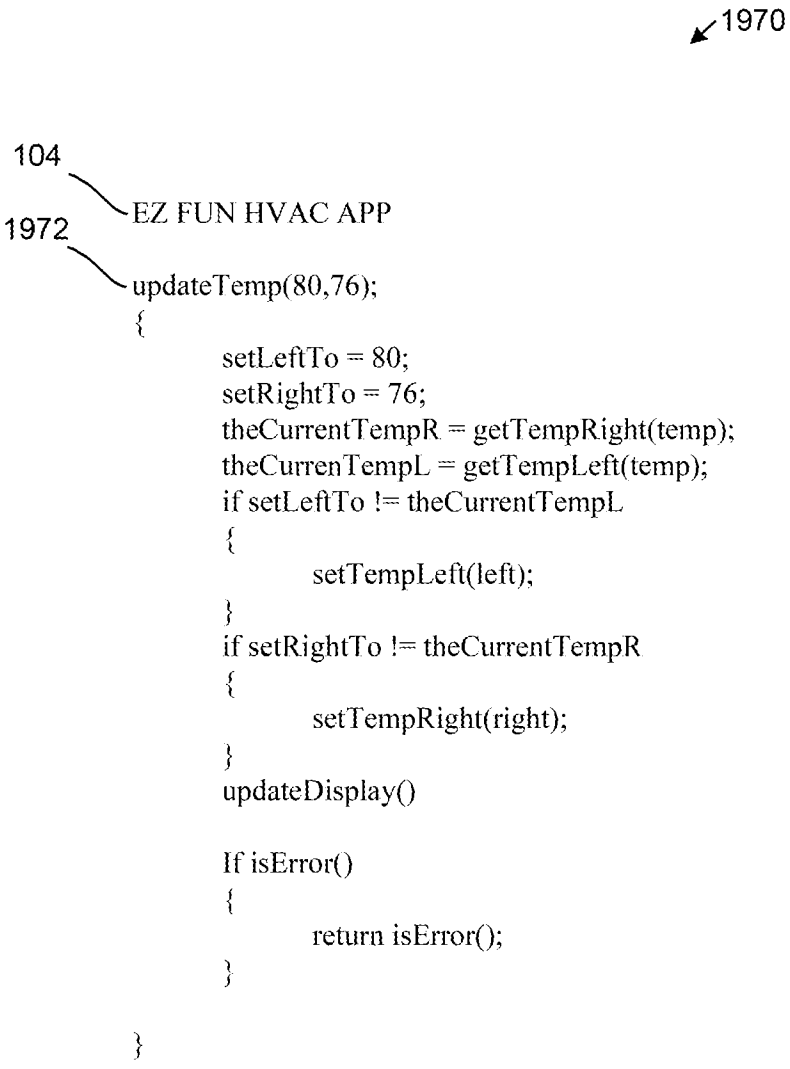

1970
104
EZ FUN HVAC APP
1972
updateTemp(80,76);
{
setLeftTo = 80;
setRightTo = 76;
theCurrentTempR = getTempRight(temp);
theCurrenTempL = getTempLeft(temp);
if setLeftTo != theCurrentTempL
{
setTempLeft(left);
}
if setRightTo != theCurrentTempR
{
setTempRight(right);
}
updateDisplay()
If isError()
{
return isError();
}
}

FIG. 13C

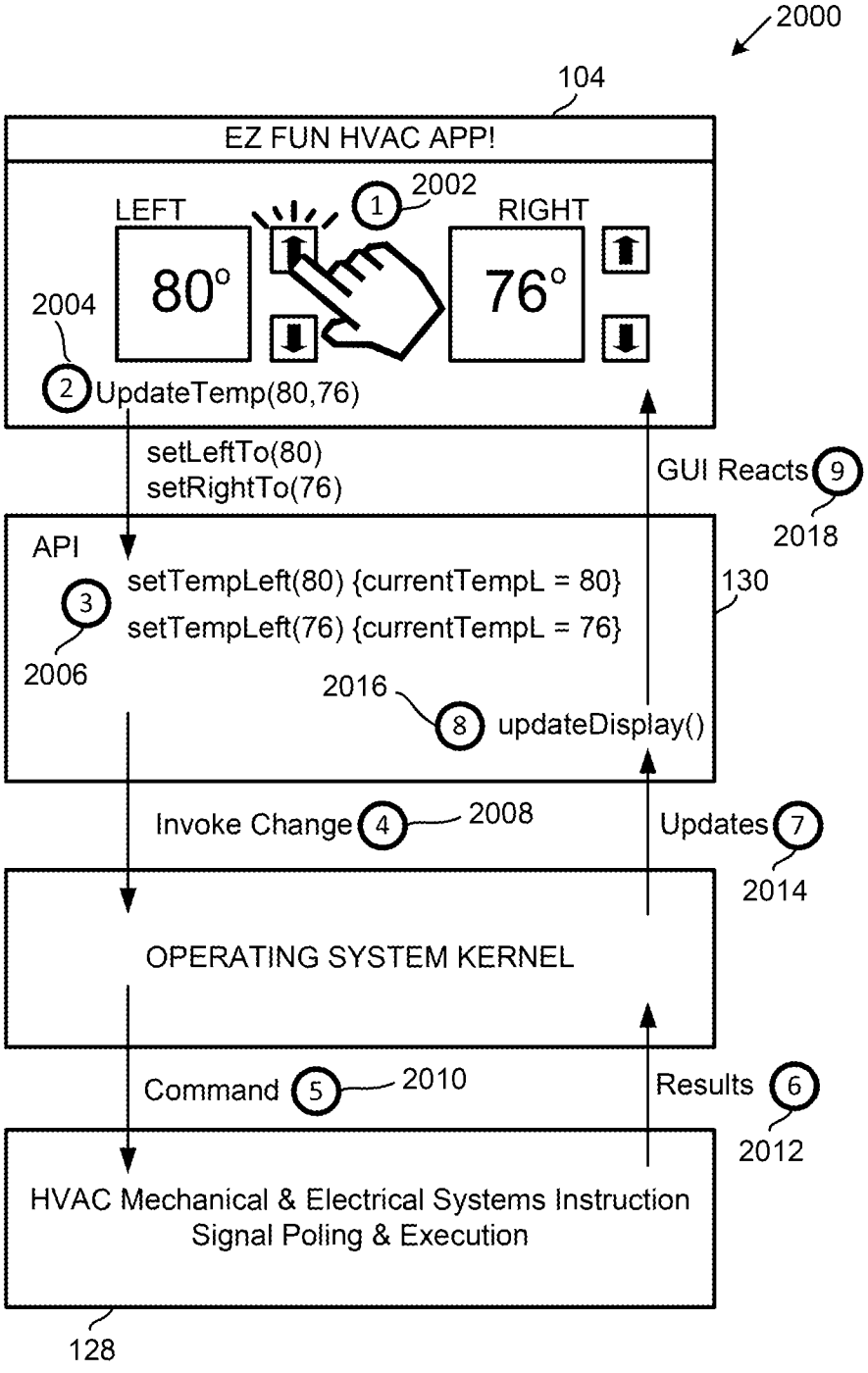

2000
104
EZ FUN HVAC APP!
LEFT
RIGHT
2002
1
80°
76°
2004
2
UpdateTemp(80,76)
setLeftTo(80)
setRightTo(76)
GUI Reacts
9
2018
API
setTempLeft(80) {currentTempL = 80}
setTempLeft(76) {currentTempL = 76}
3
2006
130
2016
8
updateDisplay()
Invoke Change
4
2008
Updates
7
2014
OPERATING SYSTEM KERNEL
Command
5
2010
Results
6
2012
HVAC Mechanical & Electrical Systems Instruction
Signal Poling & Execution
128

FIG. 14

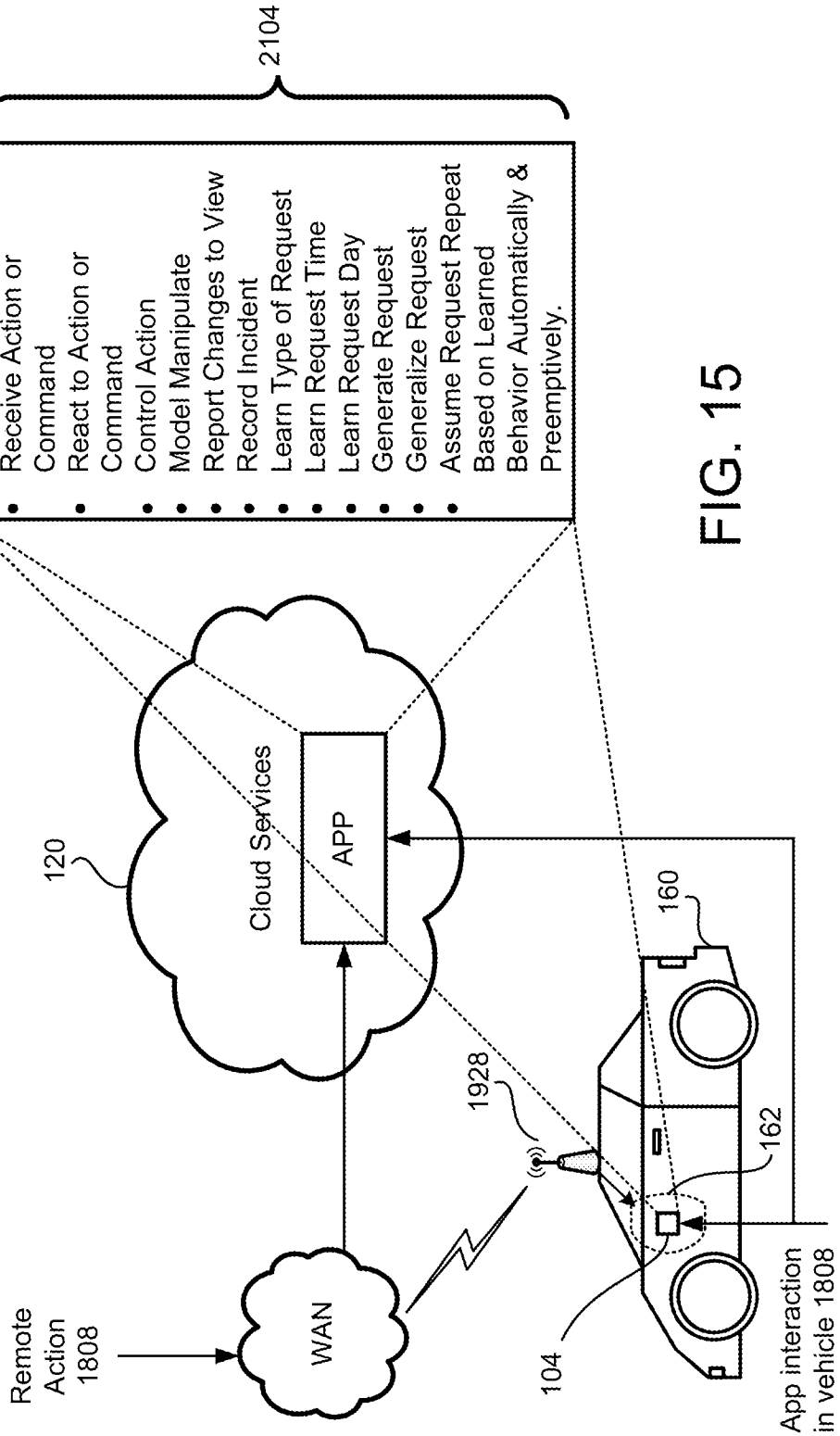

2102
2104
Receive Action or Command
React to Action or Command
Control Action
Model Manipulate
Report Changes to View
Record Incident
Learn Type of Request
Learn Request Time
Learn Request Day
Generate Request
Generalize Request
Assume Request Repeat Based on Learned Behavior Automatically & Preemptively.
120
Cloud Services
APP
Remote Action 1808
WAN
1928
104
160
162
App interaction in vehicle 1808

FIG. 15

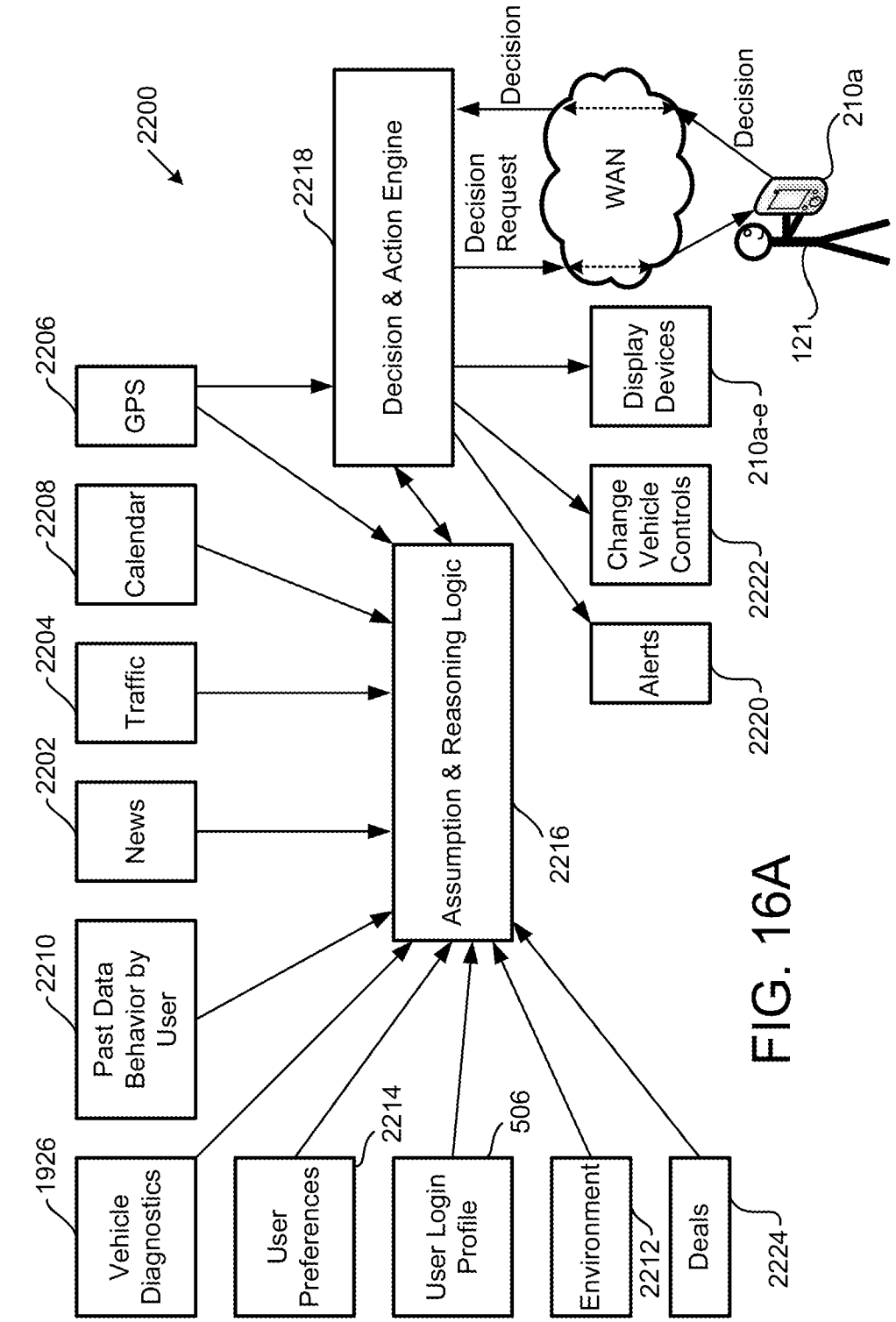

2200
2218
Decision & Action Engine
Decision
Decision Request
WAN
Decision
210a
121
2206
GPS
2208
Calendar
2204
Traffic
2202
News
2210
Past Data Behavior by User
1926
Vehicle Diagnostics
2214
User Preferences
506
User Login Profile
2212
Environment
2224
Deals
Assumption & Reasoning Logic
2216
Display Devices
210a-e
Change Vehicle Controls
2222
Alerts
2220

FIG. 16A

Learned Behavior Vehicle Application

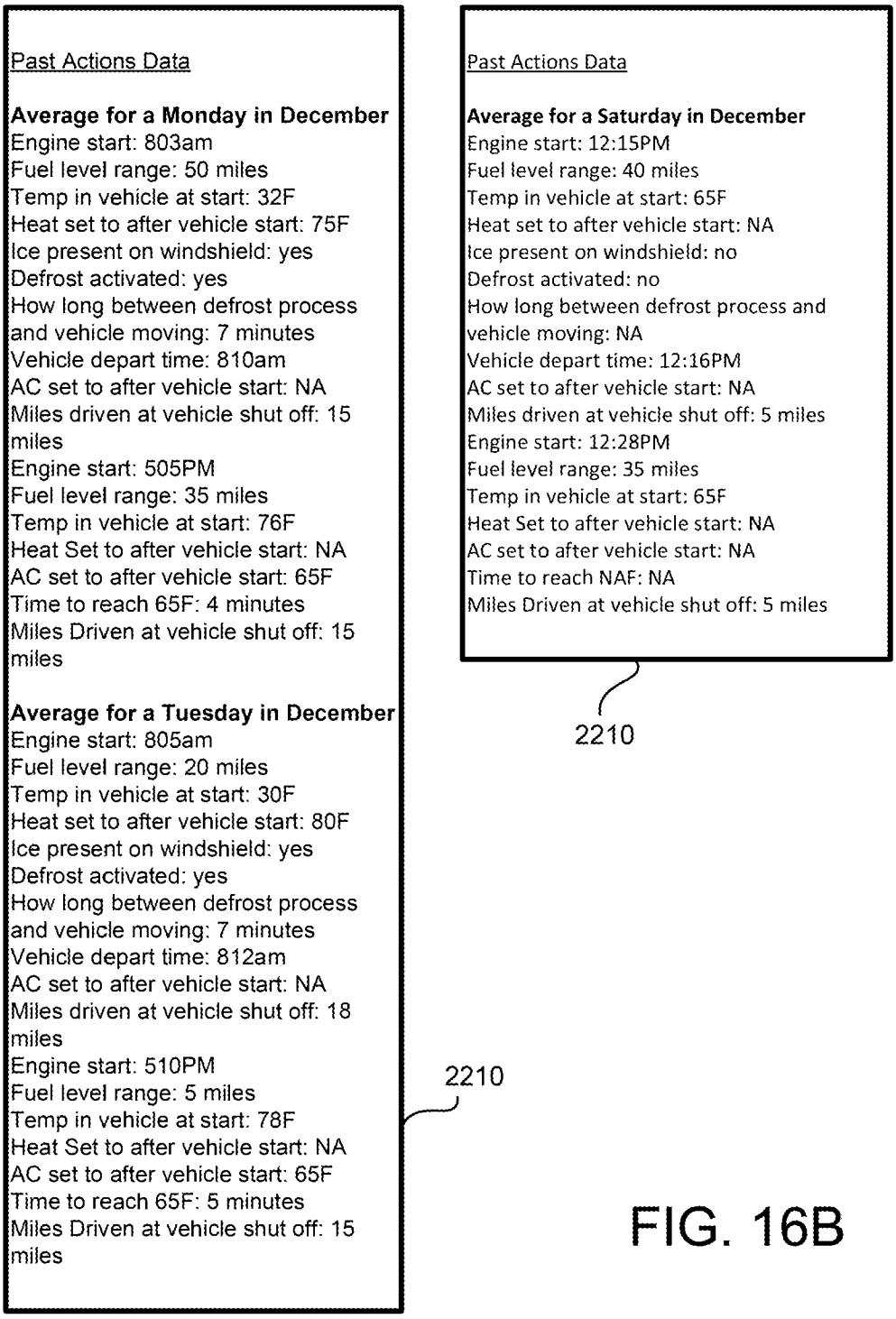


FIG. 16B

Learned Behavior Vehicle Application

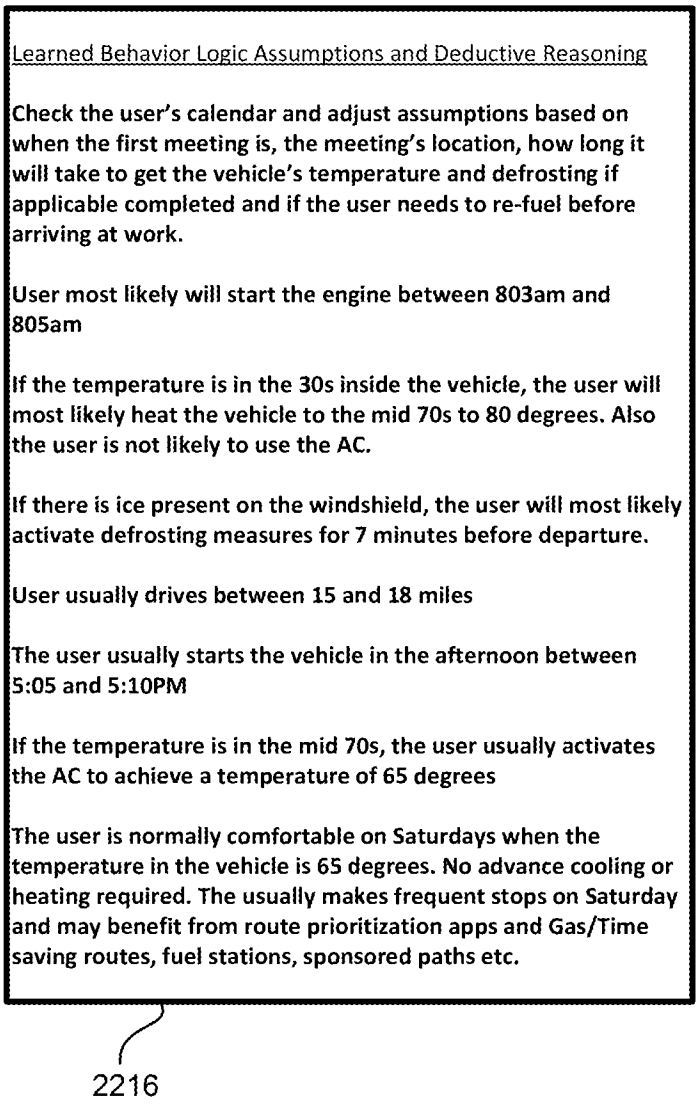


FIG. 16C

Learned Behavior Vehicle Application

Potential Actions using Logic & Past Data

Vehicle Learning App Decisions:

Tuesday PM:
The user will most likely need to drive ~16.5 miles on Wednesday morning but only has a range of 5 miles. Email and or text the user that they will need extra time to get to work in the morning due to re-fueling and that the vehicle will be auto starting 12 minutes earlier than usual. Confirm decision is ok with the user.

Wednesday AM:
Vehicle is usually started at ~804am and defrosted for 7 minutes when ice is present and usually departs at 811am, but the user needs 12 minutes to refuel. Start vehicle at 752am and defrost until 759am while heating to 77F because when the temperature is 34F like today inside the vehicle, the user likes the temperature to be about 77F. Set the user's ratio station to 102.5, the most commonly listened to station at this time. Display stock information for the most commonly queries stocks at this time. Check most common commute route in and make sure there aren't delays, else suggest a new route in advance. The user typically goes to coffee on the way to work. Launch the nearest Starbucks coffee location APP. The user usually "one button touch" orders and pays for a medium coffee. Directly from the app.

Friday PM:
Tell the user Saturdays are normally full of errands. Suggest the user send tomorrow's itinerary to the vehicle's app on the network or directly on the vehicle to report if and when the user should get started due to traffic, road construction, suggest fuel locations and ask if 65F degrees is still ok or adjust to a different temperature before the user enters the car around 12pm. Ask the user what time they will most likely depart if its not at 12pm like usual. Download specials and coupons for locations the user typically frequents on Saturdays and display to the user on the vehicle's interface on the user's mobile device.

Saturday PM:
The user said they would like to get started at 10am today but the vehicle interior is more than 20% lower than the user usually likes it. Turn the vehicle on at 955am and heat to 65F since 65F seems to be the user's most commonly used temperature. Display the specials for the nearest dry cleaner since the user typically gets dry cleaning done on Saturdays based on GPS data. Show the user lunch specials nearby and deals to claim since the user usually stops for lunch while out on errands on Saturday.

2218

FIG. 16D

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	VOLTP018.5.1.C4
	Application Number	
Title of Invention	SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Angel	A.	Penilla	

Residence Information (Select One) ● US Residency Non US Residency Active US Military Service

City	Sacramento	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	1200 Pacific Ave, Suite 250
Address 2	

City	Santa Cruz	State/Province	CA
Postal Code	95060	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Albert	S.	Penilla	

Residence Information (Select One) ◉ US Residency Non US Residency Active US Military Service

City	Santa Cruz	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	1200 Pacific Ave, Suite 250
Address 2	

City	Santa Cruz	State/Province	CA
Postal Code	95060	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	VOLTP018.5.1.C4
	Application Number	
Title of Invention	SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES	

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	25920		
Email Address	al@penillaip.com	Add Email	Remove Email

Application Information:

Title of the Invention	SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES		
Attorney Docket Number	VOLTP018.5.1.C4	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		**Sub Class (if any)**	
Suggested Technology Center (if any)	2859		
Total Number of Drawing Sheets (if any)	22	**Suggested Figure for Publication (if any)**	15

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	● Customer Number	US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	25920		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	16788253	2020-02-11

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	VOLTP018.5.1.C4
	Application Number	
Title of Invention	SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES	

Prior Application Status: Patented — Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16788253	Continuation of	16285706	2019-02-26	10652312	2020-05-12

Prior Application Status: Patented — Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16285706	Continuation of	14987755	2016-01-04	10218771	2019-02-26

Prior Application Status: Patented — Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14987755	Continuation of	13842158	2013-03-15	9229905	2016-01-05

Prior Application Status: Expired — Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
13842158	non provisional of	61745729	2012-12-24

Prior Application Status: Patented — Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16285706	Continuation in part of	13452881	2012-04-22	10217160	2019-02-26

Prior Application Status: Expired — Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
13452881	non provisional of	61478436	

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. — Add

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Priority Claimed
			● Yes No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. — Add

Authorization to Permit Access:

Authorization to Permit Access to the Instant Application by the Participating Offices

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	VOLTP018.5.1.C4
	Application Number	
Title of Invention	SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES	

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Organization Name	Emerging Automotive, LLC		
Mailing Address Information:			
Address 1	2053 Grant Road #366		
Address 2			
City	Los Altos	**State/Province**	CA
Country	US	Postal Code	94024
Phone Number		Fax Number	

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	VOLTP018.5.1.C4
	Application Number	
Title of Invention	SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	VOLTP018.5.1.C4
	Application Number	
Title of Invention	SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES	

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PATENT APPLICATION

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

INVENTORS:

Angel A. Penilla
Sacramento, California
U.S. Citizen

Albert S. Penilla
Sunnyvale, California
U.S. Citizen

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

By Inventors:
Angel A. Penilla
Albert S. Penilla

Claim of Priority

[0001] The present application is a continuation of U.S. Application No. **16/788,253** filed on **February 11, 2020** entitled "Methods for Transferring User Profiles to Vehicles Using Cloud Services," which is a continuation of U.S. Application No. **16/285,706** filed on **February 26, 2019** (now US Pat. No. **10,652,312,** issued on **May 12, 2020)** entitled "Methods for Transferring User Profiles to Vehicles Using Cloud Services," which is a continuation of U.S. Application No. **14/987,755** filed on **January 4, 2016** (now US Pat. No. **10,218,771**, issued on **Feb. 26, 2019)** entitled "Methods and Systems for Processing User Inputs to Generate Recommended Vehicle Settings and Associated Vehicle-Cloud Communication," which is a continuation of U.S. Application No. **13/842,158** filed on **March 15, 2013** (now U.S. Pat. No. **9,229,905**, issued on **Jan. 5, 2016)** entitled "Methods and Systems for Defining Vehicle User Profiles and Managing User Profiles via Cloud Systems and Applying Learned Settings to User Profiles, which claims priority from U.S. Provisional Patent Application No. **61/745,729**, filed on **December 24, 2012**, and entitled "Methods and Systems For Electric Vehicle (EV) Charging, Charging Systems, Internet Applications and User Notifications", which is herein incorporated by reference.

[0002] U.S. Application No. **16/285,706** is a continuation-in-part of US Application No. **13/452,881**, filed on **April 22, 2012** (now US Pat. No. **10,217,160**, issued on **Feb.**

26, 2019) and entitled "Methods And Systems For Processing Charge Availability And Route Paths For Obtaining Charge For Electric Vehicles", which claims priority to US Provisional Application No. **61/478,436**, filed on **April 22, 2011**, all of which are incorporated herein by reference.

Field of the embodiments

[0003] The present invention relates to systems and methods for managing user profiles for vehicles and exchange of information with cloud-based processing systems.

BACKGROUND

[0004] Vehicles, such as motorized vehicles and electric vehicles have been around for some time. Vehicles provide a means that enable humans to drive from place to place. In today's world, vehicles have become an indispensable mode of transportation, and provide the freedom to travel at any time of day and for various distances. Vehicles can be publically operated or can be privately owned. Humans most commonly operate vehicles, no matter the type, whether electric or combustion engine based. In recent years, technology has been advancing to allow for better wireless interfacing and networking with vehicles.

[0005] It is in this context that embodiments of the invention arise.

SUMMARY

[0006] The methods, systems and apparatus include electronics of vehicles that drive display devices in vehicles and communicate wirelessly with Internet services.

[0007] Methods and systems provide access to cloud services over the Internet for managing a user profile of a vehicle on a cloud processing system connected to the Internet. One example method includes receiving requests to access the user profile to define settings for one or more vehicles. The method includes receiving input for user settings at the vehicle using the cloud processing system. The method includes processing the input over time to learn behavior associated with the input to the use settings. The method includes transmitting settings to the vehicle to be automatically implemented based on the learned behavior. In one example, the profile is associated with a plurality of vehicle types and the method includes detecting a violation of a setting or an incompatible setting in the profile that is user defined via the user account. The method can then automatically send a notification to a predefined administrator of the profile. The method being executed by a processor.

[0008] The profile can be transferred to one or more vehicles, can be set for a temporary period of time, can be set with wireless payment systems, and is accessible over the Internet to accept changes or updates.

[0009] In one embodiment, a method for locating and providing access to a shared vehicle of a shared vehicle network is disclosed. The method includes receiving a request from a user device of a user to locate a vehicle to use for a shared period of time. The method enables providing an option of vehicles within a range of a location identified by the request. Then, detecting proximity of the user device to a selected vehicle proximate to the location identified by the request. The method enables transfer of a user profile of the user to the vehicle. The profile is configured to automatically

set one or more user preferences of the vehicle. The method further includes receiving use data of the vehicle while the user profile is set for the vehicle.

[0010] In some embodiments, the user profile is deactivated on the selected vehicle when use of the vehicle is discontinued.

[0011] In some embodiments, the user profile is saved to a cloud services database, the user profile being accessible and updatable via a device having Internet access, such that transfer of the user profile to other vehicles enables the automatic setting of one or more user preferences on the vehicle during the use of the vehicle, and wherein the profile includes automatic payment settings to allow the vehicle to make wireless payment for services.

[0012] In some embodiments, the user profile includes user settings, the user settings include one or more of radio settings, or user interface settings, or temperature settings for particular times of day, or learned settings from user historical use, or seat settings, or automatic payment settings for vehicle money payment transactions, or combinations thereof.

[0013] In some embodiments, profiles are associated with vehicle types, the vehicle types include vehicle makers and vehicle models, wherein the profiles of the vehicle types identify available vehicle settings, the available vehicle settings of the vehicles being examined to identify which settings in the user profile are settable for particular vehicle types.

[0014] In some embodiments, the user profile includes verifiable biometrics for the user associated with the user profile.

[0015] In some embodiments, face recognition is used to validate access to the selected vehicle, as defined by the user profile.

[0016] In some embodiments, the user profile includes a group of users provided with access to the selected vehicle, and each user is associated with one or more settings, or the user profile is transferrable to one or more vehicles, or transferrable to another vehicle for a period of time, or transferrable to a rental vehicle.

[0017] In some embodiments, the user profile is accessible over a computing device having access to the Internet, the user profile defining access to cameras of one or more vehicles, record settings, and remote access controls.

[0018] In one embodiment, a method is disclosed. The method includes receiving information for a user profile of a user, wherein the user profile defines one or more settings that are preferred to be set in vehicles if the vehicles support the settings. The method includes identifying a selected vehicle for applying the user profile. The selected vehicle having a plurality of settable settings. The method further includes determining applicable settings for the selected vehicle. The applicable settings being those settings that are preferred to be set as identified from the user profile and are settable in the selected vehicle. The also includes sending the applicable settings to the selected vehicle. The method is executed by a server executing cloud processing, the server including a processor.

[0019] In some embodiments, sending the applicable settings to the vehicle includes, sending the applicable settings directly to vehicle electronics of the selected vehicle, or sending the applicable settings to a computing device for subsequent transfer to the selected vehicle.

[0020] In some embodiments, the method further includes examining setting modifications over a period of history use, generating learned settings, and sending the learned settings to the selected vehicle.

[0021] In some embodiments, the plurality of settable settings of the selected vehicle is predefined for specific types of vehicles associated with automobile makers or automobile models.

[0022] In some embodiments, the determining of the settings for the selected vehicle includes performing a mapping between the user profile and an automobile database.

[0023] In some embodiments, the applicable settings for the selected vehicle are saved to the user profile, the method further includes determining applicable settings for one or more other selected vehicles and saving said applicable settings to the user profile.

[0024] In some embodiments, the method further includes verifying the user as associated with the user profile using one or more biometric evaluation systems, which include one or more of image detection, or face detection, or voice detection, or finger print detection, or password detection, or combinations thereof.

[0025] In some embodiments, the method further includes associating one or more sub-user accounts to the user profile, the sub-user accounts having predefined privileges for the selected vehicle to enable or restrict settings or function of the selected vehicle.

[0026] In some embodiments, the selected vehicle is a private vehicle or a shared vehicle associated with a car sharing system, if the vehicle is associated with a car sharing system, the settable settings of the selected vehicle can be enabled or disabled using an administrator account of the car sharing system, or if the vehicle is a private vehicle, the settable settings of the selected vehicle can be enabled or disabled using an administrator account that can define one or more sub-user accounts with the same or varying privileges for use of the selected vehicle, the user profile being accessible via a computer having Internet access to the cloud processing.

[0027] In some embodiments, particular sub-user accounts enable access to specific information concerning the selected vehicle, the information including one or more of vehicle sensors, vehicle electronics, vehicle mechanics, engine control, vehicle diagnostics, or combinations thereof, wherein said particular sub-user accounts are accessible over the Internet for viewing or control using a password.

[0028] In one embodiment, a method for managing a user profile of a vehicle on a cloud processing system connected to the Internet is disclosed. The method includes accessing the user profile having user settings for the vehicle at the cloud processing system and communicating changes to user settings at the vehicle to the cloud processing system, the cloud processing system processing the changes over time to learn behavior associated with the user settings. The method includes receiving, from time to time, automatic changes to the user settings of the vehicle, wherein a repeat pattern of the changes is qualified as learned behavior before the automatic changes are sent to the vehicle for programming the vehicle. Electronics of the vehicle enable connection of the vehicle to the Internet for enabling the accessing of the user profile, the communicating of changes and the receiving of the automatic changes, to and from, the cloud processing system, wherein the cloud processing system is accessible by vehicles having predefined access credentials, the method being executable by a processor.

[0029] In one embodiment, a profile update is transferred to the vehicle and the profile update learned from user input is stored to the profile database. In one example process, the method includes accessing a plurality of profiles of different users stored in the profile database and detecting pattern similarities in changes made to the profiles, of different users, based on respective learned user input. The patterns can include type of input, time of day inputs, time of season inputs, inputs based on certain conditions

being met, such as comfort, temperature, security, number of occupants in the vehicle, weather, age of vehicle, service requirements of the vehicle, etc. In one embodiment, a method provides a suggested setting to the user account of the profile, where the suggested setting is identified from the detected pattern similarities of the different users. Because the database or distributed database can include data from many users, the data can be analyzed for patterns, overlaps, similarities in regions of the world, age associated similarities, demographics of the users, social connections of the users, social graph intersections, comments made by many users, crowed sourced data, etc.

[0030] In one embodiment, a device used to access a profile may be one of a portable device, or a computer, or a vehicle computer interface, and the user account is provided with notifications requesting approval of a learned setting from the user input over time or learned from input of different similar users. The notification can be transmitted to an application, and the application provides data, interfaces and selections to view and modify data and view a history of learned settings and history of approval or disapproval of the learned settings. This history can then be mined to find overlaps in patterns and patterns between one user and another user.

[0031] In one embodiment, a user account is provided with notifications requesting approval of a recommended learned setting from the user input over time. The notification is transmitted to an application. The application provides a user interface of a history of learned settings and history of approval or disapproval of the learned settings. The method, such as on a server or local device, can process the approvals and disapprovals to determine a probability that the user will accept a future recommended learned setting, and if the probability is below a predefined threshold, the future recommended learned settings is not provided as a notification to the user account.

[0032] In one embodiment, a profile is caused to be disabled at the vehicle if a user associated with the user account is not validated to be using the vehicle with the profile, and sending a notification to an administrator of the user account. The notification including a link to a user interface that enables communication with electronics of the vehicle, (a) to view images in and around the vehicle, or (b) to control an instrument of the vehicle, or (c) to remotely grant a guest profile for the vehicle, or (d) to sound an alarm at the vehicle, or (e) to establish a two-way audio/video communication with a person that is proximate to the vehicle from a remote location of a device connected to the Internet.

[0033] In one embodiment, when a vehicle is designed to make payment, the making or completing of a payment can include communication with a payment account and providing a user interface in the vehicle or a portable device associated with the user account to accept completion of the payment. The acceptable of completion including one of accepting a signature at the user interface, selecting button(s) or setting on the user interface, validating the user via biometrics saved to the profile, or combination thereof, the method being executed by a processor.

[0034] In one embodiment, security encryption can encapsulate the transaction and communication with a payment agent or third party. The security encryption can also be provided for any communication between any vehicle, the cloud services and user devices.

[0035] In one embodiment, a method is provided. The method includes receiving, by a server, a request to manage a profile for a user account. The method also includes identifying, by the server, a vehicle type from the profile and receiving, by the server, a plurality of settings for the profile of a vehicle having the vehicle type. The settings are stored on a database of a cloud services system that includes the server. The method

further includes transferring, by the server, the plurality of settings of the profile to the vehicle. The transferring is via wireless communication transfer over the Internet, and the settings are configured to be implemented by the vehicle when the vehicle is used with the user account. The method also includes receiving, by the server, communication from the vehicle regarding inputs made to systems or functions (i.e., interfaces) of the vehicle, and the inputs occurring over time and communicated to the server from time to time. Further, the server processes the received inputs made to systems and functions of the vehicle. The processing is made for learning types of inputs preferred while the user account is associated with the vehicle. The learning is configured to identify a recommended setting for the vehicle. The recommended setting is identified when the inputs made show a historical pattern of being made. The server is configured to send the recommended setting to the user account. The recommended setting is configured for implementation on the vehicle by electronics of the vehicle. The recommended setting, when implemented, is used on the vehicle when the vehicle is used in association with the user account.

[0036] In another embodiment, systems for communicating with a server of a cloud system used for managing access to a user account having a profile that includes settings for a vehicle, are provided. The system includes a wireless communication system interfaced with a computing system. The computing system of the vehicle is configured to connect with the server using the wireless communication system and credentials for the user account are transferred by the computing system to the server to enable the server to access the profile of the user account and enable the computing system of the vehicle to use the profile. The computing system of the vehicle is configured to implement one or more settings for the vehicle upon making the profile active on the vehicle and while the profile is active on the vehicle, is configured to

monitor use activity of the vehicle. The use activity of the vehicle includes inputs received by interfaces of the vehicle. Data regarding the use activity of the vehicle is communicated to the server for identifying patterns from the inputs. The computing system of the vehicle is configured to receive data from the server that is used to make a recommendation for a change to a setting in the vehicle. A display screen of the vehicle is provided with a message that includes the recommendation for the change to the setting. The message is provided via a user interface control that enables acceptance of the change to the setting. The computing system generates an instruction to make the change to the setting and the change to the setting is implemented by the vehicle, and the change to the setting is further added to the profile.

BRIEF DESCRIPTION OF DRAWINGS

[0037] Figure 1 shows example profiles settings for a vehicle, and association to roles, in accordance with one embodiment.

[0038] Figure 2 shows additional role settings for different users, in accordance with one embodiment.

[0039] Figures 3-5 show additional vehicle profile settings, in accordance with one embodiment.

[0040] Figures 6-9B show example pairing of a vehicle to a user profile, and examples of a shared vehicle transfers of profiles for limited use of the profiles on the shared vehicles, in accordance with one embodiment.

[0041] Figure 10 illustrates validation method for enabling a profile on a vehicle and biometric validation, in accordance with one embodiment.

[0042] Figure 11 illustrates various settings for a profile and adjustments that can be made over the Internet via a device, e.g., using a portable device or the vehicle electronics and displays, and remote controls and settings in accordance with one embodiment.

[0043] Figure 12 describes a system in which a user interacts with a model view controller software environment useful for processing APPS using APIs on vehicles with vehicle operating systems capable of processing computer code, in accordance with one embodiment.

[0044] Figure 13A describes how vehicle on board computer with input output system useful for accepting input, processing input and displaying results in conjunction with stored computer readable programs or functions in the forms of APPs may be structured, in accordance with one embodiment.

[0045] Figure 13B describes one example of how stored data and function declarations may be compiled to provide intermediary access to a vehicle's computer controlling vehicle systems, in accordance with one embodiment.

[0046] Figure 13C describes a set of computer readable and executable code that can be compiled together by a third party APP developer in the form of an APP, in accordance with one embodiment.

[0047] Figure 14 describes the stepped flow of events as a user interacts with an APP, in this case, an HVAC APP, in accordance with one embodiment.

[0048] Figure 15 Describes further ways an APP may take, process and produce results, in accordance with one embodiment.

[0049] Figure 16A describes an ecosystem where an APP in conjunction with a vehicle API may work together to make assumptions, make decisions and take actions, in accordance with one embodiment.

[0050] Figure 16B describes how one of many types of inputs into an assumption and reasoning logic module can be compiled over time, in accordance with one embodiment.

[0051] Figure 16C describes one example of what an assumption and reasoning logic module may produce using the data points collected on an ongoing basis in Figure 16B, in accordance with one embodiment.

[0052] Figure 16D describes an example list of decision the decision and action engine may take based on information provided by the assumption and reasoning logic module and sets of assumptions created, in accordance with one embodiment.

DETAILED EMBODIMENTS

[0053] Embodiments of the present invention define methods, systems and apparatus for use in vehicles. The methods, systems and apparatus include electronics of vehicles that drive display devices in vehicles and communicate wirelessly with Internet services.

[0054] The Internet services provide access to cloud services. The cloud services provide access to user accounts and access to settings, configurations, applications and other customization defined by the user. Customization can include user interface customization of a vehicle display or displays. The customization can include the ability to select specific applications (APPS) to be activated by the vehicle and interfaced via the display or displays, voice input, touch input, etc. The customization is also provided with a learning engine that learns use behavior by the user or patterns of behavior of multiple users, and automatically implements settings or programming to aspects of the user interface, or provides recommendations or notifications with recommendations. The programming can include automatic programming at certain times, days, months, years, etc., and can be updated or molded over time as the user continues to use the vehicle UI.

[0055] In one embodiment, a user can access cloud services for a vehicle manufacturer and identify the particular vehicle from selected choices. The user can then identify a customization profile for the vehicle by defining the look and feel of a UI display, arrangement of vehicle controls on displays, add and associate third party APPS to the vehicle display, and save the configuration.

[0056] The configuration, in one embodiment, is saved to the profile of the user. In one embodiment, the profile is saved on a database of a specific vehicle manufacturer

that offers the customization option. In still other embodiments, once a configuration is saved to the profile account of a user, that configuration can be shared to other vehicles of the user. In still other embodiments, when a user buys a new car, the custom configuration can be transferred either entirely or partially to the new vehicle. In some embodiments, if the vehicle has more or less system functions, the customization can be adjusted automatically or the user can be provided with options to update the customization to add or delete features. In one embodiment, the customization will be facilitated via a website. In one embodiment, the website may be of the vehicle manufacturer. In one embodiment, the website of the vehicle manufacturer can allow the user to add APPS that are created by third parties. The third parties can create APPS that communicate with APIs of the system components of specific vehicles of the manufacturer. Once APPS are selected, the user can add them to the custom user interface (UI) display.

[0057] The user can also be allowed to arrange the APPS or icons of APPS in a specific custom arrangement that is saved to the user's profile. In one embodiment, the user's profile can also be run on various vehicles, other than those owned by the user. For instance, if the user is renting a vehicle and the vehicle has access to cloud services, the user can enter his user name and password (or other identifiers), which log the user into the cloud services and saved profiles. The saved profiles will then enable logic to build a custom UI for the user based on the vehicle being driven. In one embodiment, the system components and APIs of the system components of the rented vehicle can be paired or linked to the users saved APP selections.

[0058] The user's saved UI configuration may also be transferred to the display of the rented (or other vehicle) vehicle. A best-fit configuration can also be generated using the user's profile selections, so that the configuration provided for the other vehicle will

closely resemble or appear as it does for the configured vehicle. In other embodiments, the user's use metrics can be monitored. The use metrics can include use of APPS, use be of system components of the vehicle, use of the vehicle, environment conditions, and historical actions taken by the user via the input/output controls of the vehicle (e.g., buttons, levers, keys, fobs, display selections, display interface actions, communication actions, etc.).

[0059] These historical actions can then be used to define learned actions. The learned actions can be analyzed to change configuration settings in the user's saved profile. For instance, if the user uses a particular APP every day at a particular time, that APP icon can be surfaced to the display or preset to start. The APP can then provide information to the user at about the same time the user normally needs the information. Other historical use patterns can be monitored and such data can be saved to the user's profile.

[0060] The data can then be used by algorithms that build assumptions based on historical inputs by a user as well as environmental inputs, location inputs, vehicle diagnostic inputs, internet connected marketing deals, the user's calendar, traffic conditions as well as news. The assumptions the algorithm builds are then processed into decisions and actions by an additional algorithmic process to activate local or remote audio and visual alerts, change vehicle systems, display information on a vehicle's displays and request a decision from a user locally or remotely to complete an action.

[0061] A number of embodiments are described below, with reference to specific implementations that refer to vehicles, but such implementations should be broadly construed to include any type of vehicle, structure or object. Without limitation, vehicles can include any type of moving object that can be steered, and can include

vehicles that are for human occupancy or not. Vehicles can include those that are privately owned, owned by corporations, commercially operated vehicles, such as buses, automobiles, trucks, cars, buses, trains, trolleys, etc. Example vehicles can include those that are combustion engine based, electric engine (EV) based, hybrids, or other types of energy source vehicles.

[0062] A cloud processing system, as described herein, will include systems that are operated and connected to the Internet or to each other using local networking communication protocols. A cloud processing system can be defined as an interconnected and distributed physical or virtual software defined network that utilizes virtual or physical processing and storage machines that enable various applications and operating systems to facilitate the communication with and between various client devices (vehicles, user devices, structures, objects etc.).

[0063] The communication with and between the various client devices will enable the cloud processing system to deliver additional processing information, data, and real-time metrics concerning data obtained from other processing systems as well as client feedback data. The distributed nature of the cloud processing system will enable users of various vehicles, structures and objects to access the Internet, and be presented with more flexible processing power that will provide the requested services in a more effective manner.

[0064] The processing systems can be defined from various data centers that include multiple computing systems that provide the processing power to execute one or more computer readable programs. The processing of the computer readable programs can produce operations that can respond to requests made by other processing systems that may be local to a vehicle's electronic system. For example, a vehicle can include

electronics that utilize memory and a processor to execute program instructions to provide services.

[0065] In other embodiments, the electronics of a vehicle can synchronize with a user's portable electronics. The user's electronics can include, for example mobile devices that include smartphones, tablet computers, laptop computers, general-purpose computers, special purpose computers, etc. The various computing devices of the vehicle, and or the computing devices of the user (smart devices) can be connected to the Internet or to each other. Provided that a user has access or account access to the cloud service, the cloud processing services on the Internet can provide additional processing information to the electronics of the vehicle.

[0066] The wireless communication can include cellular tower communication that couples and communicates through various networks to the Internet, to provide access to cloud processing 120. Other methods can include providing Wi-Fi communication to local Wi-Fi transmitters and receivers, which communicate with cloud processing 120. Other types of communication can include radio frequency communication, such as 802.11.ac, 802.11ad and subsequent wireless networking protocols, Bluetooth communication or combinations of Wi-Fi and Bluetooth. It should be understood that vehicle electronics can communicate with cloud processing 120 via any number of communication methods, so long as exchanges of data can be made with cloud processing 120 from time to time.

[0067] The communication can be made by vehicle electronics while the vehicle is on or when the vehicle is off, so long as communication and processing circuitry of vehicle electronics has a power source. The power source can include battery power that powers vehicle electronics to communicate with cloud processing 120 when

vehicle is turned off. When vehicle is turned on, the battery that drives vehicle electronics can be recharged.

[0068] Still further, certain applications can increase in size when being used or decrease in size to enable selection at a later time. For example, selecting the temperature system component may expand the system component to a larger space, thus temporarily removing other displayed components. The user can also select other buttons to access other system controls, other apps, or modify or add applications or system controls. When modifications are made, the modifications are saved to a user database and profile of the user, as managed by cloud services.

[0069] Cloud services will therefore allow any future modifications to be made to the custom configuration at any time and from any computer connected to the Internet. Still further, the custom configuration can be transferred to a second vehicle. If the custom configuration is transferred to a second vehicle, the system can select the system components for the second vehicle and attempted do a best match of applications available for the second vehicle that resemble or match the ones used in a first vehicle. Specific settings, arrangements and other features may also be transferred to a second vehicle, by simply transferring the custom configuration to a second vehicle.

[0070] In one embodiment, the functions of the specific applications illustrated in the display will be monitored and restricted depending on safety considerations while driving. For example, if the interfacing functionality requires more interactivity with the display, or requires a reading of text or inputting text, those functions will be disabled during operation of the vehicle. Once the vehicle comes to a stop, or is placed in Park, certain of these functions will be activated. In other embodiments, other safety considerations will allow for applications to shift from outputting text to outputting audio or voice. The input can also be changed from touchscreen, button touches,

selections, and/or voice input. In still other embodiments, safety considerations can allow certain user interface components to move about the display to provide easier reading while driving or automatic conversion of text to audio.

[0071] For example, content being displayed in the center panel display of the vehicle, can be automatically shown in the dashboard display region of the vehicle, such as in front of the steering wheel. In still other embodiments, some content or display data can be moved from the center console or the display in front of the steering wheel to the windshield of the vehicle in a heads-up display area. Accordingly, algorithms executed by the applications and applications of the manufacturer, can cooperate to provide functionality to the application features and interfaces, while maintaining safety parameters defined by rules. The safety parameters will therefore allow content of the user interface to be shifted around to various displays of the vehicle, or translated to voice or audio at certain points in time.

[0072] These settings and customizations can be made through the web/cloud services and tools provided by the website of, for example the manufacturer of the vehicle. In one embodiment, the cloud services provided by the manufacturer can be provided by a partner of the manufacturer. The partners of the manufacturer can include software companies that develop, host, or manage certain functionality provided by the vehicle manufacturer. In other embodiments, the partner software companies can integrate tools or components with tools and components of the vehicle manufacturer. This provides for integration with one or more cloud services, software services, Internet services, and services provided by systems of vehicles or systems of the vehicle manufacture. In either case, whether the software and logic is designed and constructed by one or more entities, the cloud services provided by the vehicle manufacturer or the website that provides the tools for customization will appear as a unified simple to use interface for

the user. As mentioned above, the cloud services can provide databases for saving the user profile and data associated with the user account.

[0073] The user profile can include settings made by the user, customizations made by the user, identification of applications purchased or added to the vehicle customizations, etc. Still further, the user profile data can be part or be associated with the user account. In this manner, the user that customized a user interface can access the Internet at any time, whether through the vehicle or through any other computing device having access to the Internet and make changes, modifications, or access control features of the vehicle remotely. In one embodiment, the profile of the user can be accessed from any vehicle, such as rented vehicles or shared vehicles. Settings and profile data can then be shared for a period of time on any vehicle and use data on that vehicle can be stored.

[0074] When the user is not using the vehicle, the custom configuration can be turned off or locked out for another session. Once the user wants to start a new session, the user can log back in and the custom configuration returns. In other embodiments, the custom configuration will automatically turn off when the user is not driving the vehicle or has not logged into the vehicle. In other embodiments, the custom configuration can be automatically turned on when the user is detected. The user can be detected using biometrics, login credentials, image detection of the face, fingerprint detection, retina scans, etc. In some embodiments, biometrics can include data used to identify the user, such as face recognition, fingerprint reading, retina scans, voice detection, or combinations thereof. Still further, the custom configuration can be transferred to other vehicles.

[0075] If the user wishes to use his or her custom configuration in another vehicle, the user can login to the custom configuration or user account from another vehicle. If the

other vehicle does not have all the system components needed to define the custom configuration, the custom configuration can be supplemented with other similar components automatically. In other embodiments, the custom configuration can be transferred from one vehicle to another, or when the user buys a new vehicle. In another embodiment, the custom configuration can be adjusted based on the driver. The custom configuration can also be preset remotely from the Internet, using the cloud services. The custom configuration can also be configured to provide limited use of certain systems or the vehicle, such as when a guest is driving the vehicle. In other embodiments, restrictions can be placed on the vehicle speed, location of driving, and automatic notifications for the user or the master user of the vehicle. The master user of the vehicle can have a master account with administrator credentials.

[0076] In still another embodiment, the vehicle can be loaned to a child of driving age (under 21/18 years of age), and the child can be provided with restricted use of the vehicle. When the child exceeds or does not follow the restrictions of the vehicle, automatic notifications can be provided to the user that is the administrator of the vehicle. The notifications can be by cell phone, smartphone, tablet computer, mobile device, text messages, phone calls, commendations of phone calls and text, audio messages, audible sounds, vibrations, and commendations thereof. History use of the vehicle can also be maintained in cloud services. The history use can provide the user with information as to where the vehicle has been, the speed or events, violations that occurred when use of the vehicle etc. The configuration can also provide messages to the driver warning the driver of when the vehicle has exceeded a restriction, or is approaching a restriction in use, driving area, speed, etc.

[0077] The screen displays can have various configurations, placements, sizes, number of pages, tabs, etc., and the user can provide controls for some or all of the

interfaces and controls in certain locations. The selection can be enabled for third-party applications. The third-party applications can be selected from the vehicle site, or by providing links to third-party sites. The third-party applications can be pre-identified by the site and displayed to the user if they are compatible with the particular vehicle selected. In another embodiment, the third-party applications can all be shown to the user whether or not they are compatible with the vehicle. Upon binding/pairing or attempting to find application for the vehicle, compliance as to whether the applications operate or comply with the particular vehicle can be made.

[0078] In one embodiment, certain third-party applications can be reviewed by the vehicle site administrators before they are made available to users for selection. In other embodiments, the third-party applications can be approved or disapproved. In still other embodiments, the third-party applications can be augmented with restrictions made by the vehicle manufacturer, or dictated by law. The restrictions can be applied, based on the anticipated interfacing with the vehicle interfaces, to ensure safety during driving. For instance, if a particular application requires entry of text, navigation of controls, or other activities that would distract the driver during operation of the vehicle, such vehicle controls or application controls for application interfaces can be temporarily disabled, or can be automatically transferred to a heads up display, or can switch to take audio vocal input from the user. In some embodiments, when the vehicle has come to a stop or is place to park, certain controls or interfaces can be re-enabled, or moved back to original display location or converted back from voice input to touch input. In one embodiment, tools provided by the vehicle site or third-party site can provide for customization of the layout of the display screens of the user interface.

[0079] The customization can include organizing or laying out system interfaces as well as application interfaces, such as those interfaces provided by 3rd parties. In one

embodiment, interface rules are applied to determine if the system interfaces can be replaced with third-party application interfaces, while providing access to the control interfaces via the APIs of the systems. For example, if the user wants to provide a custom speed indicator, the speed indicator must be compliant (via APIs and/or mapping) with the system interfaces so that the speed readings can be populated to the third-party application. In one embodiment, rules can be integrated with or applied to the applications and system user interfaces for when the vehicle is moving. As mentioned above, such rules can limit interactivity with certain user interfaces while the vehicle is moving to prevent unsafe driving. In one embodiment, the custom user interface is saved to the user profile.

[0080] The user profile may contain settings, such as selections of the user interface components associated with the system of the vehicle, as well as user interface is provided by third-party applications. In addition, the user profile can contain and store settings provided by the user. The settings provided by the user, as mentioned is this disclosure can also be learned settings based on use. The settings can further include remote access settings, as well as settings allow the user to control vehicle components from a remote location or a remote computer. The setting can also include providing access to the user account to view historical driving patterns, recent driving activities, the performance of the vehicle during specific driving sessions, the performance of specific vehicle components, etc.

[0081] In one embodiment, the custom user interface configuration can be transferred to the vehicle. The custom configuration, as mentioned above is stored in the database of the vehicle manufacturer, or a database held by a 3rd party that cooperates with the vehicle manufacturer to provide cloud services. The database, in one embodiment, is a network accessible storage which allows access to the user to program and modify the

user interface using any computer or device having access to the Internet, including the vehicle itself or a third-party vehicle. The method then proceeds to operation where the custom user interface can be activated in managed for Internet connectivity for components of the custom interface. For example, the vehicle's Internet access protocols can be set, or registered with an Internet provider or service provider for the cloud services. The service provider for the cloud services can be the vehicle manufacturer, a company cooperating with the vehicle manufacturer, a third-party company, or combinations thereof.

[0082] In one embodiment, the method/logic can also enable local communication with mobile devices that may be in the vehicle. The enablement may be provided by allowing synchronization with the computing system of the vehicle, or with the computing communications of the portable device. For example, the local communication can be paired automatically, based on a preset pairing process where pairing keys are entered. This provides for automatic settings and synchronization when the user enters the vehicle with the portal device. As mentioned above, user interfaces associated with applications loaded on the user's portal device can also synchronize to the display screens of the vehicle, as predefined by the user.

[0083] In one embodiment, vehicle settings are saved to either a memory number button on the vehicle or synced to a key fob, or accessible via an interface or voice activation. In one example, a vehicle operator profile is provided to allow users to maintain their individualized profiles, settings and accounts for vehicles from any internet connected device or be able to login to their vehicle physically in or near the vehicle by the use of a fob, thumb print, eye scan and or manual login using an input device that interacts with the vehicle's login system.

[0084] In one embodiment, the profile can be managed at a user account saved to a central or cloud distributed system, to manage access. Any vehicle can be abstracted so that any user can log into any vehicle if they have an account that allows access to that vehicle. For instance, a vehicle owner with the role of "administrator" (e.g., an administrator of a user account that has a profile associated therewith or multiple/sub profiles) can create logins for his or her vehicle(s) for additional users such as his or her children, spouse, mechanic, and valet driver among other applications. Logins can be created for individuals or for roles such as the role of "child" where all users with the role "child" would have the same vehicle specifications applied to the vehicle they will be logging into. Similarly, the role of valet can be given and shared by any valet driver.

[0085] The purpose of abstracting vehicle operators from the vehicle itself is a shift from the current state of the art in which settings are vehicle specific- each vehicle typically only having the ability to store 1-3 sets of settings, to where vehicle settings are user specific and 1-n logins can be managed through an access management system. The embodiments defined herein allow each user to apply his or her settings to any vehicle based on their login information in which they provide their login and password. When a user logs into a vehicle, the vehicle will determine locally on board and/or communicate remotely with a central or distributed access management system to determine the validity of the login presented to the system. If the user's login is recognized, the system will apply settings and use privileges to the vehicle prescribed by the login.

[0086] Logins can have "role" specific settings and privileges or settings and privileges set only by the administrator that cannot be overridden by the user of the login. For instance, an administrator may create a login for "John" their 16-year-old son. The administrator can apply settings to John's login that John cannot override such

as the maximum speed the vehicle can travel. For instance, Although the vehicle may have the ability to travel at a speed of 130 mph, John's login will only allow the vehicle to travel at a speed up to 90 mph. Additionally, every login may have settings that the user of the login can toggle to their liking such as the list of radio stations they would like pre-programed every time they log in to any vehicle that accepts their login.

[0087] Logins can control all aspects of a vehicle's behavior and can be attributed to individuals or roles. These settings can be toggled via a network connected device such as a computer, web application, smart-phone or directly on the vehicle. Administrators can decide which settings are locked for specific logins or roles, which are open for the login user to toggle and which settings are to be enforced depending on the time of year, or time or day etc., or when a condition or event is detected.

[0088] Login settings that can be set and remotely administered include but are not limited to, driving characteristics (rate of speed, fuel consumption guidelines) location based settings (GPS aided travel restrictions, travel radius boundaries, dynamically loading maps, dynamically loading directions, dynamically loading fuel, charge and battery service and purchase locations etc.), time of day based use restrictions (day driving only for example), automatic purchase settings (financial institution linking for automatic purchasing of fuel, charge time, batteries, car washes, etc.), fuel settings (Electric only, fuel only, hybrid only etc.), refueling routing and purchase (incentive based re-fueling maps, incentive based refueling offers etc.) driving characteristic settings (sport, comfortable, soft, off-road, high performance, economy mode), entertainment system settings (radio memory settings, internet access or restriction, streaming services settings), comfort & HVAC settings (climate control, seat positions, seat heater/cooler, suspension/ride settings, entry lighting, remote start, remote stop

etc.) tracking/metric settings (camera/video recording guidelines, mileage, top speed, average speed, MPG, wear and tear settings and notifications, historical travel maps).

[0089] Automatic purchase settings can be processed in response to requests from the vehicle. The request can be, for example, to transact a payment is for one of a car wash service, a fast food service, a toll road service, a goods purchase service, a rental service, a lease service, or combinations thereof.

[0090] Additionally, combinations of settings or setting profiles (such as "sport" where your seat moves to sport position for additional support, suspension stiffens, throttle response becomes aggressive etc.) can be set as well instead of individually setting use characteristics. In one embodiment, logins are user specific, not vehicle specific, so any family member can use their login on any family vehicle and the vehicle will perform based on the metrics and restrictions dictated by the login used to operate the vehicle.

[0091] Companies or entities can create and manage logins to company vehicles for delivery drivers, car washers, and mechanics among other applications. Each login can be configured to provide or restrict access based on the user logged into the vehicle. A company may only allow a delivery vehicle to travel at a maximum speed of 80 mph to limit reckless driving. A company may create a role of "local delivery only" where a driver with that login can only drive the vehicle within their territory. Breaches in territory travel will result in a recorded event and notification to the vehicle administrator as well as the vehicle operator. A grace period will be given to re-route back into the driver's territory before more aggressive vehicle disabling mechanisms are deployed. The driver will be given visual and audio cues as to how to avoid vehicle disabling.

[0092] A dealership can grant "test drive" logins to potential customers, which allows them to operate less than 100mph and only within a 5-mile radius. In one embodiment, alerts or notifications can be automatically triggered if violations in the restrictions are detected. A dealership may also grant a "demo" login for instance which showcases the vehicle's capabilities, available APPS, features and benefits. Variations of the "demo" login can be used on variations of potential buyers. A " 18-24 year old demo" may be useful for enticing that demographic and showcases the vehicle's features 18-24 year olds are most receptive to.

[0093] A valet can be given a password to login only as "Valet" which will impose restrictions on trunk operation, vehicle speed operation, vehicle location notification settings etc. A recording option can be provided, which can set a recording within and around the vehicle when in the valet mode. This way, the user can login to see what the valet driver did while in possession the car, in case the owner feels that something is not correct when the vehicle is returned to the owner. Additionally, while the valet is driving the car, a notification can be provided to the valet that will alert the valet that recording is in progress, and their face can be shown on the display while the valet parks the car.

[0094] A user may set the valet login to alert the user that left the vehicle with a valet that the car has traveled beyond the allowed radius or has reached a speed greater than 100mph, for example. This alert can be sent wirelessly to an email address, texted via mobile phone number or sent to a mobile device having a login-profile mobile application capable of sharing current vehicle location, speed, fuel status among other metrics. The last logged in user of the vehicle or vehicle administrator can send visual, audio or auto override notifications to the valet letting them know they need their car back, they are traveling too fast or even auto shut down to prevent theft.

[0095] A parent can set up a login to the family vehicle for their child that only allows the child to drive within a certain radius. For example the vehicle may only be used to drive between home and school. A map can be outlined on the account management interface by a parent when setting up the child's login to support the home to school restriction intended.

[0096] In one embodiment, a parent or company may give a child or company driver a login that also carries a financial allowance connected to one or more financial institutions administered through the access management and/or login management system by administrators. For instance, a child may have the need to re-fuel the vehicle by purchasing either traditional fuel, battery units, and or charging time but a parent does not want to give a general credit card to the child. The parent will set a budget for fuel purchase for the given login and the login will then allow the vehicle will communicate with the fuel, battery, and or charge-dispensing unit automatically using a wired or wireless communication systems funding the purchase automatically up to the allotted budget set in the login of the vehicle.

[0097] In one embodiment, these features are useful for fleet vehicles where company vehicle users currently use a corporate credit card to purchase fuel where fraud may exist in the form of using company credit cards, or company fuel accounts to fuel personal vehicles. The new system ensures only the company owned vehicle is approved to purchase the traditional fuel, battery, charging time and also maintains metrics on which logged in user consumed fuel and re-fueled which vehicle.

[0098] In one embodiment, a process is created so that some or all manufacturers use the same type of login/access management system. By way of example, any user can log into any vehicle from any brand in so far as they have account creation access or a

recognized login. Once logged in, each vehicle will receive and impose the login-based settings as long as the manufacturer supports the login/access system.

[0099] Figure 1 shows various methods a user can interact with a vehicle login system, in accordance with one embodiment. The user may use any network-connected device ranging from a mobile computer, mobile phone, mobile network device all connecting to a remote converged or distributed network cloud system. The user may also interact with the vehicle login system directly on or near the vehicle. The user supplies login credentials to a vehicle login interface which are sent to the remote distributed or centralized user login authentication system or onboard vehicle authentication system. The processing logic receiving the login credentials processes the data and returns an authentication response to the user attempting to log in. If the authentication is a success, the vehicle the user attempted to log into has vehicle settings applied to it and the user is allowed to operate the vehicle. If the authentication is a failure, the user is presented with a failed access notification on the login interface.

[00100] Figure 2 shows two different types of users and an example of how the user is organized, in accordance with one embodiment. In this example, User 1 is an administrator of a vehicle login system over vehicles he or she owns. User 1 has the ability to add or remove logins, roles and vehicles to his login system. Since User 1 is an administrator, he or she can add more logins and or roles to the system to allow a family member to have access to the family vehicles for instance. In this case, a family member "User 2" is shown. The administrator has given this family member a login named User 2 and has granted two roles to User 2. User 1 may only want User 2 to have access to a certain vehicle and to certain roles only. User 1 may only want User 2 to have access to the vehicle for the purposes of traveling between school and home. In

this case User 1 has created a role that is applied to User 2, which only allows the vehicle to travel within certain restrictions and geographical locations.

[00101] In this example, User 2 does not have the ability to alter his or her login, role or vehicle since they do not have administrator access. However, User 1 can make changes on behalf of User 2. The full range of settings over a vehicle that applies to a given role or login is a super set of settings. User 2 may have access to a subset of settings that User 1 allows changes to by User 2.

[00102] Figure 3 shows a graphical representation of a example set of settings an administrator such as User 1 may have to administer logins, roles, and vehicles. Figure 3 further expands the depth of settings, including but not limited to, vehicle administration, adding or deleting users and roles, vehicle global settings that apply to all roles and logins, adding or deleting vehicles among other settings.

[00103] Figure 4 shows one sample of many potential configuration settings for a given vehicle. In this case, User 2 has a login created for him or her named "CHILD". This login contains a set of settings that may or may not be configurable by User 2 since User 2 is not an administrator, only a subset of settings are open to him or her to alter. The drawing illustrates the settings that are user editable and admin only or restricted. The left column lists the type of settings corresponding on the same row on the right column. These settings are examples and may be altered, added to, or subtracted from in different embodiments. For instance, fuel use settings allow an admin in this case to choose what type of fuel the user login CHILD is allowed to use while logged into the vehicle. Similarly, location based settings allows an administrator to draw out a map of the area the user login CHILD is allowed to travel within while logged into the vehicle.

[00104] Figure 5 describes extended settings from Figure 4. This figure describes additional vehicle settings that are configurable by the user with the login "CHILD" and those that are only configurable by User one being the Administrator. Figure 5 also describes a subset of settings a user login CHILD in this case is allowed to change. For example, the user login CHILD is allowed to select his or her radio stations, streaming services, and Internet access settings for a unified experience in any vehicle they log into using this log in. Similarly, the user login CHILD can access driving modes and set the vehicle mode to sport for instance. It should be understood that the example "CHILD" profile is just that, an example, and any type of user profile may be set with the defined privileges and/or restrictions.

[00105] Figure 6 illustrates an example of utilizing a profile of the user, to access cloud services 120, and a database 115, in accordance with one embodiment of the present invention. In this example, a user may utilize a connected device 110 to access cloud services 120. Using the connected device 110, the user, in this case Bob, is accessing his universal profile settings. His profile settings may include settings that have been selected before in earlier sessions, or default settings implemented by a vehicle manufacturer, or another user such as an administrator. In the example, the user may access particular active settings managed by cloud services 120 which can cause Bob's profile in database 115 to be updated.

[00106] In one embodiment, Bob's profile can include specific settings, preferences, use history, and learned settings from earlier uses of one or more vehicles. The profile settings defined by Bob, are then transferred by cloud services 122 one or more vehicles utilized by Bob. For example, if the user wishes to utilize his regular everyday car, the profile settings may already be stored on the vehicle. If the user wishes to utilize a different vehicle, such as a friend's vehicle, a rented vehicle, a shared

vehicle, a temporary vehicle, a loaner vehicle, a test drive vehicle, a company vehicle, etc., the user's profiles can also be transferred to that vehicle.

[00107] The user profiles can include standard settings that may be set at the various vehicles, or custom settings that can be selected for the user based on learned settings over time by use of various vehicles. In one embodiment, the user profiles are continuously updated and store to a database 115, which is accessible by cloud services 120. Database 115 may include data storage, such as cloud storage, data center databases, distributed databases, local storage on vehicles, network storage, and the like.

[00108] Figure 7 illustrates an example of a user (Bob) that may wish to utilize a car 200, in accordance with one embodiment of the present invention. For example, the car 200 may be a shared vehicle, such as those commonly shared in urban cities. Shared vehicles are those that belong to a company and where the company provides accounts to users to access the vehicles for specific trips, specific times, periods of time, etc. Users that share those vehicles typically park the vehicles at different locations throughout an urban city. Users wishing to find a vehicle to use can access an application or website having access to an Internet connected application to find the vehicle closest to the particular user.

[00109] Once the user has located a proximate vehicle, such as car 200, the user may approach the vehicle so as to utilize the vehicle 200. In one embodiment, when the user approaches the vehicle, and comes in close proximity to the vehicle as detected by the geo-location of the user's mobile device, a pairing request can be detected. The pairing request may be triggered once the proximity zone of the car 200 and the proximity zone of the user substantially or partially overlap. The proximity

zones may overlap when the user comes in close proximity to the vehicle, such as within a few feet, within a mile, or the user has touched or bumped the vehicle.

[00110] The pairing request may be automatically sent by the user's device to cloud services 120. The pairing request can include sending the model of the vehicle 200, which may have been obtained by the user's mobile device from the vehicle 200 directly. In the illustrated example, the pairing request by the user's mobile device can include identification of the vehicle that the user has come in close proximity to. A pairing module 170, can then communicate with a mapping engine 118 that determines information associated with car 200.

[00111] An automaker database 116 can include data regarding a plurality of vehicles, including standard user interfaces, configuration interfaces, and other information necessary to provide user Bob with a custom interface for vehicle 200.

[00112] The mapping engine 118, in this example includes a map or that communicates with the automakers database to identify the settings, applications, APIs, or modules that allow integration of Bob's user profile from the user profiles database 160 so that Bob's profile can be sent to car 200. In the illustrated example, the mapping engine, the of the mapper, will obtain Bob's profile 160 for cloud services and obtain vehicle information for the user interfaces of the vehicle desired for use by the user.

[00113] The mapping engine 118 will then transfer Bob's profile to vehicle 200. At this point, the user, Bob, can be provided with an interface on a mobile device to allow access to the vehicle. The user interface can include a plurality of screens with instructions, check information, cost information, billing information, etc. As illustrated in figure 7, the users mobile device can provide various notifications, such as identifying to the user that the user standing next to a blue model M7 from maker C. The user interface can ask Bob if Bob wishes to pair settings to the specific vehicle

200. If Bob desires to actually utilize the shared vehicle 200, the pairing request may be initiated as mentioned above.

[00114] Figure 8 illustrates another embodiment where the user Bob has utilized his mobile device 100a to define or access a plurality of settings. In one embodiment, the user may register 214 with a car sharing service, such as via a user interface or application having access to the Internet and the company providing the service. Cloud services 120 can then provide access to the profile database 160 where Bob's profile may be stored. The profile 160 may be accessible to 3rd parties, such as car sharing service.

[00115] Also shown in cloud services 120 is the car database 116/115. The car database can then be provided with information from the car sharing company 210 that identifies the cars that the company owns and that are shared with the service. The car data including assigned IDs to the vehicles and cars can be stored in the car database 116/115. Additional data can be supplemented from vehicle manufacturers 212. The cloud services 120, in accordance with one embodiment, can include logic for profile identification for vehicles 224, logic for proximity detection 222, user request logic 220, and other managing logic for receiving request from users, managing databases from a car sharing database, managing data from vehicle manufacturers, and receiving request to manage profiles an axis vehicles.

[00116] As illustrated, when the user Bob approaches the vehicle 200, the Bob's mobile device 110a can identify the closest car, which may be car A. In this example, Bob is identified to be proximate to the car having an ID 1528ABC. In one embodiment, when the user comes in proximity to the car 200, the car can beep or light up when enabled, it can open the doors to allow the user to access the vehicle when the logic has paired the user to the vehicle, the profile of the user can be transferred to the

vehicle, the use of the vehicle is managed by the user's online account (storing historical use data and any billing information), automatic payment for use can be made from predefined payment arrangements stored in the profile, and use of the vehicle can be restricted to predefined rules, based on the profile. Accordingly, the profile database 160 can include both profiles of the user, such as user settings, as well as profile restrictions that may be set by the car sharing service.

[00117] Figure 9A shows one example process for utilizing user profile settings from a registered user and utilizing settings of a shared vehicle network, in accordance with one embodiment of the present invention. In this illustration, operation 300 receives the user profile settings from a registered user of a shared vehicle network. The registered users profile can be obtained from a cloud services profile, such as the profile used for a number of vehicles which may be in or outside of the shared vehicle network.

[00118] In another embodiment, the profile may be the profile set by the shared vehicle network, based on the service contract entered by the user. In operation 302, vehicle IDs for each vehicle assigned to a shared vehicle network are received by cloud services 120. Cloud services 120 will therefore maintain a user database 160 with a plurality of user profiles.

[00119] Cloud services can also maintain a vehicle inventory database 310 for the shared vehicle network. Servers 350, which operate cloud services 120, and therefore managing access database 160 and 310, as well as provide logic for providing access to vehicles, unlocking vehicles, and transferring user profiles to specific vehicles. In operation 360, the servers 350 may receive a request to locate a vehicle on a map from a computing device. The request may be provided with reference to the user's current location, using GPS or the like. The request is then processed by servers

350, and servers 350 communicate the forward a list of available vehicles proximate to the user or for the users identified area in operation 362. In operation 364, a selection request is received from the user for a specific vehicle and a reservation is made for the use of the vehicle for a set period of time.

[00120] In operation 366, a command is sent to the vehicle the signal alert when the user is detected to approach the vehicle within a particular distance, notifying the user that the vehicle is the vehicle that the user reserved. This provides for a method of allowing the user to easily identify the vehicle that the user reserved. For example, if the user is instructed to go to a specific parking lot to identify the vehicle that was reserved, the user would have a difficult time identifying which vehicle it is that the user reserved. However, by allowing cloud services to signal to the vehicle to sound the alarm, turn on a light, beep, for make any other identifying gesture, the user can easily identify the vehicle in the parking lot.

[00121] In operation 368, a user interface is provided to the user's mobile device that will provide a notification to the user indicating that the person/user has arrived at the vehicle. In operation 370, the users profile is transferred to the vehicle. The transfer of the profile will allow the settings of the user to automatically be set in the vehicle. The settings can include, for example, temperature, radio settings, seat settings, meter settings, air settings, etc.

[00122] In operation 372, the settings that are made by the user when in the vehicle or adjustment settings can be sent back to the user profile. Thus, when the user offering the vehicle and making changes to his or her profile, those changes can also be communicated back to the profile database in cloud services 120. This provides for a continuous feedback loop over time, to allow the users profile settings to be managed

and maintained current to the users best liked preferences. The operation then proceeds to B in Figure 9B.

[00123] In operation 374, it is detected that the user has completed use of the vehicle upon some user entry at a computing device. The computing device may be computing device of the vehicle, or a mobile device. The entry can be, for example, the user logging out of the vehicle indicating that the user has terminated use of the vehicle. At logout, the vehicle's original profile settings will then be returned, and the users custom profile settings will be terminated.

[00124] In operation 378, a report sent back to the server regarding the use of the vehicle and the charges to the users account for the use. In one embodiment, the use reporting can occur continuously while the user is driving vehicle. In operation 380, the driver's session log can be saved user profile, keeping a history of the user's travels. In operation 382, survey data can be requested of the user regarding the vehicle use. Because the user was utilizing a shared vehicle, feedback from the user can be helpful to potential future users that may want to rent or utilize vehicles from the same company.

[00125] The user may be provided with options to publish likes and dislikes or commentary to a social network 390. Ratings can also be transferred to rating companies, such as those that allow internet users to view user comments, reviews, complaints, etc. The social network 390 can allow the data to be open data 394, or data that is shared with friends 392. In operation 384, problems with shared vehicle can be reported to the vehicle network to allow repairs before making the vehicle available for reuse. Cloud services for the shared vehicle network can then be updated in cloud services 120. For example, if the vehicle has been identified as having some mechanical malfunction, the cloud services can update that vehicle as being out of

service, so that discovery of that vehicle does not cause users to access that specific vehicle that may be out of commission.

[00126] Figure 10 illustrates a user (Bob) entering the vehicle, such as a shared vehicle 200, in accordance with one embodiment of the present invention. In this example, the user has been identified by the vehicle, such as using a camera 402. The camera 402 may use face detection 406 to automatically identify the user, and set the users preferences and settings for the vehicle automatically. In some embodiments, this allows verification that the user driving the vehicle 200, from the shared network, is the driver that unlocked the vehicle from a remote location (such as a mobile device). In this example, the vehicle 200 may also include a plurality of cameras, such as cameras 404, 408, 410, 412, 402, etc. Any one of these cameras can be accessed from a remote location, if the user's profile provides access, or the privacy setting allows such access.

[00127] These cameras can be used to detect and monitor the exterior portions of the vehicle as the vehicle drives around, as well as interior portions of the vehicle. These cameras can be used by the vehicle sharing company to monitor the status of the vehicle, and the location where the vehicle is parked. In one embodiment, the user who has rented the vehicle can set a privacy setting to disable certain cameras. In one embodiment, a speaker 420 can be activated to allow the vehicle to speak and communicate with the user. Vehicle electronics and logic 400 can be in communication with cloud services 120.

[00128] Cloud services 120 can also be in communication with user profiles 160. In one embodiment, the user profiles 160 can also include specific profiles for registered users. In one embodiment, the registered users can include a family of users. A specific family can have a number of drivers or users that have been registered with a service. For example, the database can include users ABC123xi (such code is only an

example, and any form of ID/code can be used), and the users can include a particular family or group of people. The group of people can also be a group associate with a company, a sharing service, a group established for a particular event, or other types of groupings. The vehicles can therefore be monitored for use by the specific users in a particular family or group. In one embodiment, the particular family and groups can be associated with their own profile history settings, which include data from their previous uses.

[00129] In one embodiment, figure 10 illustrates a process utilize to communicate between vehicles, users, and cloud services. In operation 450, a vehicle with communications is provided with cloud services. The cloud services will be in account, software, or interface that allows communication with cloud services 120. In operation 452, the user in the vehicle may be detected, and the face of the driver or other biometric data can be used to identify the specific user sitting in the car. The detection of the user can, in one embodiment be enabled or restricted based on privacy settings desired by the user.

[00130] In operation 454, the user may be identified and the users profile can be automatically retrieved from cloud services and the user profile 160. The preferences settings for the user can be identified from the database in operation 456, and the settings can be applied in operation 458. The settings can be applied to the vehicle for the identified user. When the user terminates use of the vehicle, the settings can't be deactivated, or return to a neutral setting.

[00131] Figure 11 illustrates an example of particular types of settings that can be set, or recorded, or accessed, in accordance one embodiment of the present invention. In one example, cameras 480 can be provided as options for access by the user. The cameras can be accessed to view historical uses by the user, or can be access

to view current and live video of the vehicle. For example, if the user has rented a vehicle for a period of time, and parked it in a specific location, the user can monitor the vehicle from a remote device connected to the Internet.

[00132] Record settings 482 can also be set by the user, the vehicle provider, or cloud services. A plurality of recording options and access can be set or adjusted by the user from a remote location. Remote access 484 also provides the user with options to control specific features of the vehicle. The control the vehicle can be set for a period of time when the users profile is associated with the vehicle.

[00133] In a car sharing environment, the remote access of the vehicle can be enabled during the period of time when the user is assigned or the users account is assigned to that vehicle. In examples where the user owns the vehicle or is more tightly connected to the vehicle, the remote access can be provided by entering axis control information, credentials, passwords, usernames, and biometric data or combinations of one or more.

[00134] In still other embodiments, user interfaces are provided to provision customized data regarding available charge station locations. In one embodiment, users having other devices, such as smartphones or portable electronics can obtain data, which can be shared with other user interfaces. The sharing can be by way of a sync operation, that can be automatic when the user enters the vehicle or on demand by the user. In other embodiments, the application or program running on the user portable electronic device can continue to execute the processing, while allowing the display of the vehicle to show all activity on the display. For example, if the vehicle electronics are not capable for processing an application or access a cloud service, the portable device can act as the agent for the vehicle electronics. In one embodiment, the display and I/O of the EV simply acts as a passive interface, while the processing or accessing

to cloud processing is done by the user's portable electronics (e.g., smartphone or the like).

[00135] In some embodiments, the user's portable device is already programmed with access codes, passwords, etc., so the user may wish to use the portable electronics instead of having to program the vehicle. This is important when users share a vehicle. If users share a vehicle, one user may have the electronics programmed to their likes or dislikes. By allowing programming, data settings, etc., to be shared or synced (e.g., temporarily or not), users can more easily share vehicles, while keeping the settings that the user is used to having.

[00136] In still another embodiment, allowing the user's smart phone or portable electronics to sync with an EV, users of rental cars can more easily step into cars with pre-programmed settings. Thus, users that temporarily use vehicles need not worry about programming the car's settings upon entering the car, but simply sync with the vehicle to allow the vehicle to run display, IO and services based on the custom settings of the user's portable device.

[00137] This processing that allows users to sync a vehicle with a user's custom settings stored in the user's portable device can also have application to car sharing environments. In big cities, companies allow users to locate vehicles in a proximity to their current location, and simply enter the vehicle using their membership code. In addition to providing users with access to the vehicle, the user/driver's settings can be synced to the vehicle. This can include settings of the seats, the mirrors, the temperature, the radio stations, and the Internet apps to display on the car's display, etc. Custom information, such as prior uses of the car, cost for driving, etc., can be displayed on the car's display, via the sync data from the user's portable device. The

sync data can be obtained at any time, such as by using the user's portable Internet link, etc.

[00138] In one embodiment, a user's EV or non-EV vehicle can be in communication with cloud services, and the cloud services can be interfaced with data from various entities that provide power for the grid, provide charging units (CUs), provide discounts to charge at particular CUs, geo location services, mapping services, live traffic data, etc. The user of the EV can communicate with the vehicles electronics via a display unit and its associated electronics, can provide input via touch or voice, can request data regarding routs to local charge stations, cost estimates at the various charge locations, how crowded the charge stations are at the various locations, etc.

[00139] The cloud services 120 are also accessible via a computer that has access to the Internet, a smart device (e.g., smart phone, tablet, etc.), etc. Thus, data can be acquired from various sources and data can be consumed by various sources. The data that is acquired, shared or accessed can be launched on the user's device and then transferred to share in real-time with the display and/or electronics of the vehicle. Thus, a unified access display can be customized to the user, regardless of the vehicle that the user chooses to drive. This is in contrast to current models that customize settings for one vehicle owner or owners.

[00140] In one embodiment, the user's settings are seamlessly transferred to the vehicle the user chooses to drive. This is especially useful for cases where a user drives many cars, but wishes to keep his settings constant. Settings can include cloud services, or local settings such as seat positions for the size of the user, mirror positions, radio stations, weather stations, history of routs taken, favorite locations to visit, etc. The application that allows syncing of a user's settings on a portable device to the vehicle electronics is especially useful for car sharing applications, which is common in

large cities and may expand in the future. As car sharing increases, it is most useful to allow a user to save his/her settings in their mobile device, instead of relying on the fixed settings of the vehicle. In another embodiment, it is also possible for a user to type in their universal login code (e.g., user name / password) into the car display, and all of the user's settings are transferred to the vehicle while the user is driving the EV. Once the user stops using the EV, the car can go back to the normal mode for another user to login. The data regarding the user's settings would, in this embodiment, be saved in the cloud.

[00141] In one embodiment, user interfaces of a mobile device can share data with the vehicle's display and native apps. App unification allows EV system to display APPS on the user's smartphone device in an opt-in PAIR mode. In one embodiment, this allows one person to enter another's EV, share apps on the EV display while in the EV, and when the person leaves the EV, the Apps de-pair. This auto-sync facilitates sharing of data and also allows users to unify their settings across any number of vehicles the user may drive.

[00142] In one embodiment, the synchronization will enable users to universally transfer settings from portable devices to electronics of a vehicle. In some embodiments, the vehicle that the user wishes to drive is not his vehicle. For instance, the vehicle may be a friend's vehicle, a rented vehicle or a shared vehicle. If the user has programmed settings in his or her device, the settings that are useful for the vehicle will be transferred to the vehicle. Settings can include travel speed restrictions, car seat settings, mirror settings, remote access to home controls (e.g., lighting, garage doors, etc.), radio settings, satellite radio settings, internet settings, etc. In some cases, only some settings are directly transferrable. In other embodiments, a database can be accessed to find a translation metric. The translation metric can include mapping tables

that allow for settings to be transferred between functions of one vehicle to other vehicles. In one embodiment, vehicle makers can upload their translation metric for each model and the mapping tables can be used to provide the sync operation.

[00143] Figure 12 describes a system in which a user interacts with a model view controller software environment 1800 useful for processing APPS using APIs 130 on vehicles with vehicle operating systems 129 capable of processing computer code. The APPS can execute profile retrieval, updates, and sync operations. The model view controller paradigm 1800 shows basic interaction, control, processing, and updating of data useful for manipulating and viewing resulting actions by ta vehicle running an APP in such a system. Such a system useful for running APPS on vehicle operating systems will accept inputs by a user 121, cloud services 120 via data streams, vehicle systems feedback and data streams 1812 used by a controller 1804 that may constantly poll electrical, capacitive and physical sensors, and input streams to detect if interactions 1808 such as network passive updates, network active updates, user touch, user speech, user input, user selection among others has been triggered.

[00144] Each input 1804 will then trigger manipulation of the system's model 1802 portion of the APP software paradigm thus invoking stored routines within APPS 104 which then in turn interact with the vehicle's API system 130 built upon the vehicle's operating system 129. Depending on the app presented to the user 121, the input may trigger stored routines or functions on APP software or operating system level restricted stored routines or functions.

[00145] After the processing of stored procedure code is manipulated with arguments provided by the controller 1804 inputs, visual and or sensory results are presented to the user in the view 1806 portion of the model view controller paradigm. These sensory outputs, data streams, electrical signals may all be translated as

additional options, results, dynamic updating, audio or visual graphical user interface changes 1810 on any of the user's connected display devices. The user will notice these results visually or audibly but may also feel or detect changes in the vehicle's mechanical systems. Updates from the model 1802 may also be used to toggle vehicle settings 1814 which in turn may invoke changes in the vehicle's physical, mechanical and electrical systems 128.

[00146] Finally, the system controller 1804 may receive additional updates from the vehicle systems affected or additional user 121, cloud services 120, vehicle systems feedback inputs 1812 to re-engage the user in a cyclical fashion. If no inputs are sensed, the system's controller will continue to poll it's electrical and data I/O systems for input on a continuous basis.

[00147] The model view controller paradigm 1800 described is one example of the software input output lifecycle that may be used to invoke, manipulate, process, update portions of computer readable code such as APPS 104 using an intermediary API 130 to communicate with the vehicle's operating system 130. However, APPS 104 may be run on physically wired, wirelessly connected or remote devices having processing abilities to translate the computer readable code in APPS into actionable invocations on one or more vehicles in order to facilitate or utilize the vehicle's electrical and mechanical systems in prescribed or customizable fashions.

[00148] Figure 13A describes how vehicle on board computer with input out put system 1900 useful for accepting input, processing input and displaying results in conjunction with stored computer readable programs or functions in the forms of APPs 104 may be structured. Although system 1900 describes one way to provide vehicle on board computing power to run APPs 104, the arrangement of the vehicle computer 1906 may be altered or arranged in differing fashions with differing connection routing

in order to achieve the same. In this example, vehicle on board computer 1906 may be comprised of components such as the network interface 1910, memory 1912, a central processing unit 1914, an input output buffer useful for streaming data 1916, storage 1908 having the ability to store computer data in long term or short term fashion useful for stored computer code procedures in the form of an operating system 129, intermediary stored procedure code in the form of APIs 130, stored subsets of computer code procedures APPs 104 interacting with API 130 as an intermediary to the operating system 129.

[00149] In this example, the vehicle computer 1906 has the ability to transmit, receive and process information using wired or wireless connections. One such wireless connection is provided by a wireless data sending and receiving antenna 1928 connected to a network interface 1910 useful for pairing with and communicating data with portable or stationary wireless devices which may or may not be part of a network 1902. Such wireless devices include but are not limited to wireless displays 210b, portable smart phones 210a, portable computers, 210c and even stationary objects, structures, buildings, toll bridges, other vehicles etc. The vehicle's network interface 1910 through antenna 1928 may also communicate with cloud services 120 to receive instructions from a remote location that invokes stored programs such as APPs 104 on the vehicle's computer.

[00150] The vehicle may also send and receive data wirelessly in order to establish a connection with a peer-to-peer ad-hoc network. Invocations may result in output data streams interpreted by wireless devices 210b, 210a, 210c as well as wired devices such as wired displays 210d or vehicle integrated display devices such as windshield heads up projected display or integrated glass displays 210e. All data streams generated by APPs 104 stored on the vehicle's computer may also be triggered

by wired devices such as vehicle sensors 1918, vehicle electrical systems 1920, vehicle electrical systems 1922, engine control systems 1924, vehicle diagnostics systems 1926, user input as well as environmental input.

[00151] A user and or vehicle may find system 1900 useful in one example, where the user drives the vehicle past an electronic toll bridge where a fee is required to pass the toll bridge. The vehicle's computer will communicate wirelessly as it passes the stationary structure transmitting and receiving information with it as it drives by. The user's vehicle may have an APP 104 installed on the vehicle computer 1906 that can process the input using the computer's wireless antenna 1928, network interface 1910, input output system, 1916 automatically responding to the toll bridge with payment information. Once the payment is received and processed, the APP 104 receives information from the stationary wireless toll taking device which is then stored either locally on the vehicle's storage 1908 or remotely using cloud services 120. The results of the transaction are then sent via data stream from the compute code running on the APP 104 to a display device(s) where the user can visually confirm that the toll was paid, accepted and show the user's remaining balance all through the GUI displayed for APP 104.

[00152] Figure 13B describes one example of how stored data and function declarations may be compiled to provide intermediary access to a vehicle's computer controlling vehicle systems 1950. Such routines, data and functions may be arranged in such a way that limited access is given to third party code on APPs 104 to manipulate certain unrestricted operating system functions and vehicle systems. Such a method of providing the intermediary allowed stored function set to third party code can be referred to as an API 130.

[00153] In this example of an API 130, computer readable code is arranged in such a fashion that the type of API is described and in this case, an API that allows third party control of the vehicle's HAVC system is declared. A declaration may be useful for reserving the vehicle's computer long term and short-term memory in order to run stored procedures. The shown declaration 1954 describes an example set of data that may reference memory locations and their contents. The contents of these memory location may be modified by stored procedures 1956 or functions.

[00154] This HVAC API 130 has the ability to store data relating to the vehicle's temperature, status, target temperature, split zone temperate, data from electrical and mechanical sensors, calendar dates, error information among others. Invocable functions 1956 are the methods by which a third party APP 104 may manipulate data 1954 on board a computer. Free access is not given to the restricted data on a vehicle's computer, thus a structured method or methods are described for user by third party APP developers.

[00155] These functions 1956 that may or may not take arguments in order to execute may include functions in the example HVAC API that update temperatures for both the left and right or given zones of the vehicle, toggle are conditioning, allow visual skins on the APP GUI, manipulate schedules and displays etc. The HVAC API 130 described is one example of how one API can control one vehicle system. There may be variations of the APIs for multiple vehicle systems or one superset API that allows access to all of the vehicle's systems through stored procedures or methods.

[00156] Figure 13C describes a set of computer readable and executable code 1970 that can be compiled together by a third party APP 104 developer in the form of an APP. The APP 104 uses structured programming languages to execute stored functions allowed by the vehicle's system API 130. In this example, the APP is a third

party HVAC app that allows a GUI to be displayed to a user giving them the option to adjust the temperature on the left or right side of the vehicle up or down. In this case, the APP's GUI has provided a data stream to the APP letting it know that the user has selected to set the temperature on the left side of the vehicle to 80 degrees and the right side of the vehicle to 76 degrees.

[00157] The APP 104 will then use functions available from the vehicle's API 130 to manipulate the data on the vehicle's storage system which in turn will be electrically polled by sensors, data streams etc. to manipulate the vehicle's electrical and mechanical HVAC systems. The user will notice the result visually by the data provided by the APP to the GUI as well as environmentally as the temperature is changed in the vehicle.

[00158] Figure 14 describes the stepped flow of events 2000 as a user interacts with an APP 104, in this case, an HVAC APP 104. The GUI shown for APP 104 describes the first step 2002 where a user physically interacts with a sensor, screen, voice system etc. polling to see if an input has been received. The user's input in 2002 has been interpreted by the app to raise the temperature on the left hand side of the vehicle to 80 degrees and maintain the temperature on the right hand side of the vehicle at 76 degrees. This input invokes step 2004, which calls a stored function on the APP 104 that is API 130 allowable with arguments. The stored function may invoke other helper or associate functions within the API 130 in step 2006, which all in tern invokes restricted computer readable code at the operating system and or kernel level in step 2008. These invocations will then in turn command mechanical and or electrical systems in step 2005 in order to achieve the requested response in step 2002.

[00159] The results of the commands on the vehicles systems are based back to the vehicle's operating system or kernel level in step 2012 which then updates data on

the API 130 in step 2014 that the APP 104 is polling, such as updating the display to show the resulting temperature in step 2016. The results of a function that is invoked at the API 130 level updating the display produces a data stream translatable and displayable by the vehicle's screen showing the APP 104's GUI in 2018.

[00160] Figure 15 describes further example ways an APP 104 may take, process and produce results 2100. Figure 14 shows a way to interact with an APP 104 locally but a vehicle computer system may relay data, inputs and information to the APP while connected to a wide area network, local area network, cloud process 120 or private cloud. A remote action to invoke change on an APP 1808 may be initiated via a network and pass to the APP running on the vehicle 160 using the vehicle's antenna 1928 or wired interface. An APP 104 running virtually on a network or cloud services 120 may also take input remotely and process the results accordingly.

[00161] Some of the inputs and results 2102 that an APP can take and produce locally or remotely include but are note limited to the set 2104 that can receive an action, react to an action, control an action, manipulate data models, report changes to a view or GUI, record events or incidents, learn the types of requests being submitted, learn the times of request being submitted over time, learn the days of the year the requests are being submitted over time, generalize and interpret requests, assume user intent in order to automatically invoke changes, automatically and pre-emptively act on behalf of a user, fine tune learned user behavior etc.

[00162] The learned behavior (e.g., learned settings that provide for automatic programming) can be assigned to particular applications, particular sub-features of applications, to particular native system features of the vehicle, or combination of one or more thereof. The learned settings can also be managed via an interface, which

shows to the user settings that have been learned and provides the user with options to modify learned settings.

[00163] The modifications of the learned settings can be made via the vehicle display or any other device having access to cloud services. The learned settings can also be communicated to the user via notifications. Such as, "*We noticed you like your truck temperature at 3 pm to be 60 degrees? Please confirm*," or "*We noticed you like your car temperature at 8 am to be 75 degrees, this will be preset for you automatically*," or "*We have detected your favorite settings, please login to your account to see settings we have programmed for you or make updates*," or other similar notifications via the vehicle or to any connected device over the Internet.

[00164] In other cases, notifications may not be sent. In some cases, the settings will just occur automatically. In some examples, notifications can be provided with a link or access to a user interface of an application. Via the application, the user can manage, set, control or view any aspect of the connected vehicle. In some cases, the settings can be manually adjusted by the user way from the auto settings. In such cases, the manual setting can be learned and can be provided more weighting since the user took the time to correct an auto setting. Thus, various levels of weighting or importance can be given to learned settings. In other embodiments, the learned settings can be compared against learned settings of other vehicle owners having access to cloud processing. Using data from these different user profiles, learned settings can be obtained or generated.

[00165] Generation or analysis can be by way of overlap processes, cluster analysis algorithms, Connectivity based clustering, centroid-based clustering, clustering model most closely related to statistics is based on distribution models, cluster validation, density-based clustering, KNN/profile similarity, collaborative filtering,

content-based filtering, hybrid recommender systems, mobile recommender systems, cross-sectional analysis, similarities in particular data types or settings, concentration in similar settings by particular demographics, and other similarity analysis calculators and aggregators. These settings can then be recommended to the user or can be automatically added to the profile. Recommender systems can the user the analyzed data to generate the custom recommendations for settings to users' profiles.

[00166] Figure 16A describes an ecosystem where an APP 104 in conjunction with a vehicle API 130 may work together to make assumptions, make decisions and take actions 2200. API and APP code together can be arranged in such a fashion that creates an assumption and reasoning logic module 2216. This Assumption and reasoning logic module can take inputs from various systems and data streams including but not limited to GPS 2206, calendars 2208, traffic conditions 2204, local news 2202, past data of user behavior and interaction 2210, vehicle diagnostics 1926, user preferences 2214, user login profiles 506, environmental interpretations by sensors 2212, marketing deals 2224 among others. These inputs can be local and physical or remote and abstract via a network. The assumption and reasoning logic module 2216 compiles data from these sources to invoke decisions and actions on a decision and action engine 2218.

[00167] This decision and action engine 2218 has the ability to execute on what the assumption and reasoning logic module has determined needs to be done. The decision and action engine has the ability to produce alerts, both local, on screen, audibly, visually or remotely on a remote display device 210a-e using a data network. The decision and action engine 2218 also has the ability to change vehicle controls automatically on behalf of a user without user action based on assumptions made by the assumption and reasoning logic module 2216. Additionally, the decision and action

engine has the ability to request a decision from the user preemptively in order to change vehicle controls.

[00168] This may be achieved locally or remotely requiring input from a user to proceed. For instance, the assumption and reasoning logic engine has determined that the user may want to have his or her car automatically started at 7:55 am because the user typically starts the car at 8 am. Starting the car at five minutes early will allow the system to heat the vehicle to the user's typical liking. However, the assumption and reasoning logic may have only reached a level of confidence of 75% where 80% confidence is required to act without user input. Thus, the system, being only 75% sure that the car should be turned on will automatically send the user an alert requesting a decision on whether or not to turn the vehicle on. Once the user 121 provides an decision remotely on their remote device 210a, the decision engine 2218 updates the assumption module 2216 so that it can augment it's assumptions for an updated level of confidence on the next action trigger. These actions by the user automatically and continually update the assumption and reasoning logic module 2216 in order to fine tune the level of confidence on acting without user input and learn the user's behavior for future decisions.

[00169] Figure 16B describes how one of many types of inputs into an assumption and reasoning logic module 2216 can be compiled over time. Although inputs can come from many sources, this particular example focuses on input into the assumption and reasoning logic module 2216 from past data originating and triggered by user behavior in order for module 2216 to learn. Past actions 2210 are logged into a database either locally on the vehicle computer or remotely which are fed into to module 2216. In this example, data about when the user's actions are stored, along with unique identifiers that will allow assumptions to be made in the future.

[00170] These identifiers include times, dates, rates, capacities, temperatures, frequency, degrees, distance, etc. In this example, the system has been keeping track of when the user has been starting his or her engine in the morning on weekday sand weekends. The system harvests all data points associated with given events. These data points 2210 are purely mined data points and no assumptions or reasoning occurs at this point. This data will be used by the assumption and reasoning logic 2216 to determine future actions.

[00171] Figure 16C describes one example of what an assumption and reasoning logic module 2216 may produce using the data points collected on an ongoing basis in Figure 16B. Over time, using inputs that are continually harvested by a user's action, assumptions are made and refined to aid in making decisions for a user in advance or behalf. Module 2216 has taken the inputs provided by 2210 past data and behavior to determine that before a decision can be made, the user's local or network-stored calendar should be polled to determine how the user's schedule might impact the system's pending actions. For instance, if the system had determined that the user typically starts his vehicle at 8am but the user's calendar shows a meeting at 730am located at a location that does not match the current location, the vehicle may assume that the car should be started at 725. They system will determine its level of confidence of the decision and may poll the user for a decision.

[00172] The system, by using prior data points has stored assumptions based on conditions, the day it is, the temperature of the environment and historical events, that the user will most likely start the vehicle's engine between 803am and 805am, and if the temperature is in the 30s inside the vehicle, the user will most likely set the interior temperature to between 70 and 80 degrees, it is not likely that the user will use the are conditioning unit, if there is ice on the windshield, the user will most likely defrost the

windshield for 7 minutes before departure, the user usually drives between 15 and 18 miles at this time of day, the user typically starts the vehicle again in the afternoon between 505pm and 510pm, if the temperature is in the mid 70s, the user usually activates the AC and sets the temperature to 65 degrees, typical weekend behavior, the user typically makes frequents stops, does not have a set time the vehicle is started, uses certain APPs at certain times and has a history of certain destinations as recorded by GPS.

[00173] Figure 16D describes an example list of decision the decision and action engine 2218 may take based on information provided by the assumption and reasoning logic module 2216 and sets of assumptions created. The decision and action engine 2218 will attempt, using a degree of confidence to anticipate what the user will want to do in terms of engine start and stop, location destinations, preferences of temperature, driving habits and poll vehicle capacities to ensure the intended path the user usually takes is attainable. For example, the user usually drives a distance in the morning at a certain time, however, the vehicle's fuel supply will not allow for that distance to be traveled. Thus, the decision and action engine polls the user as a reminder that the user should begin their intended travel sooner than usual to allow for refueling time.

[00174] In one embodiment, at a remote location, a user is able to access a user interface for an application, which provides users access to user accounts. A user account can be for a user and the user can add one or more vehicles, objects, data or appliances for remote reporting, viewing and control. In one embodiment, a user is an owner or user of a vehicle. The user can register the vehicle with a remote service.

[00175] The remote service can be accessed over the Internet, such as via a website or application of a portable device. The remote service can provide a multitude

of cloud services for the user, such as remote control features, remote viewing services, remote alarm controls, remote camera activation, remote audio/video recording of the vehicle (i.e., areas around the vehicle and inside the vehicle). In one embodiment, the vehicle is able to connect to the Internet (e.g., when the vehicle engine is off, on, and/or is occupied or un-occupied) to allow a user, via a remote cloud service, to access features of the vehicle. The vehicle can be accessed when running, when parked, when stopped, when moving, etc. The vehicle and its audio recording devices and video cameras can be accessed from remote locations, to allow users to remotely communicate with the vehicle or with people riding or residing inside the vehicle.

[00176] The remote communication can also allow a person to communicate remotely with people standing outside (or inside) of a vehicle. For instance, if a user is accessing his or her vehicle from a remote location, cameras installed in and/or on the vehicle allow the remote user to see a person standing proximate to the vehicle. The remote user can then communicate with a person standing proximate to the vehicle using microphones and speakers of the vehicle.

[00177] In some embodiments described herein, vehicles, structures and objects may include circuitry and communication logic to enable communication with a cloud processing system over the Internet.

[00178] In one embodiment, the services provided by the electronic systems of a vehicle can include services that access the various components or subsystems of a vehicle, such as door locks, service histories, user profiles, audio settings, entertainment settings, mapping functions, communications systems, telecommunication synchronization systems, speakers, heating and cooling functions, auto-engine start/shut-off remotely via smart devices, remote heating/cooling initiation, remote face-to-face conferencing, etc. The electronic systems within a vehicle can also

provide a user interface, such as a graphical user interface. The graphical user interface can include a plurality of buttons, controls and transceivers to receive input from a user.

[00179] The input from a user can also be provided by voice input, facial recognition, eye-retina scans, fingerprint scans, a combination of biometrics, or via a capacitive or regular touchscreen contained or displayed within the vehicle, the vehicle's glass, doors, dashboard, etc.

[00180] In one embodiment, vehicles can maintain information regarding where they are, where they are heading and their destination maintained which is maintained by GPS and navigation systems on board. The information collected and maintained by every vehicle may be mutually exclusive, meaning that only each individual vehicle is aware of its own heading, rate of speed and current location. This information, in one embodiment is crowd sourced and/or crowd shared/consumed for use in for accident avoidance or other communication. By networking vehicles within a certain radius together, all individually location-aware vehicles become aware of all other vehicles in their sphere of influence. Vehicles may network with vehicles in their range using wireless communication systems such as but not limited to Wi-Fi, Wi-Gig LTE, cellular, radio, near field communication or other methods.

[00181] In one embodiment, the communications of the vehicle and electronics of the vehicle will enable direct communication with a user of the vehicle. The user of the vehicle can include, for instance, the owner of the vehicle, a driver of the vehicle, or any third party having access to the vehicle (either to drive the vehicle, to monitor the vehicle remotely, etc.)

[00182] The access to the data can also be encrypted to prevent unauthorized access to the data. GPS and mapping services can also be in communication with the

cloud processing 120 provide data concerning the locations of the vehicles and activities that occurred to the vehicles when at particular locations. The cloud processing 120 can be access by the vehicles themselves using their electronics and communications, via mobile devices, from home, from work, etc.

[00183] In some embodiments, the vehicles may establish peer-to-peer links to facilitate fast transfer of data. In other embodiments, vehicles may link to each other using pairing algorithms that allow the vehicles to exchange data using WiFi, Bluetooth, near field communication (NFC), or some other short range communication protocol.

[00184] A user's APP homepage may also include dynamically updating sections in which the most important information at a given time may be displayed or surfaced to a user. If a user has parked in a certain parking area, he or she may want to monitor metrics related to incidents that may have occurred to his or her vehicle, vehicles around his or her vehicle, any dynamically received alerts, as well as precaution levels. Additionally, a user may choose to configure his or her APP homepage to display the most pertinent audio and video feeds to their needs.

[00185] In one embodiment, the vehicles can communicate directly with each other via a temporary pairing process. The temporary pairing process can be automatically enabled when vehicles become too close to each other, for example. When this happens, local communication between the vehicles, such as a peer-to-peer connection, Wi-Fi connection, NFC connection, or Bluetooth connection can be established to enable the vehicles to share information concerning their proximity to one another.

[00186] This local communication will enable one or both vehicles to take correction actions or alert a driver to change course or trigger automatic collision prevention measures (e.g., more aggressive notifications to one or both operators, slow the speed of one or more vehicles, change the driving direction of one or more vehicles, etc.). Once the close proximity communication occurs and some corrective action is made, the data regarding the occurrence and the actions taken can be communicated to the cloud system for storage. The information can then be viewed by a registered user having access to an account for the vehicle(s).

[00187] The various embodiments may be embodied in computer readable media, which is saved in storage. The storage may be saved on cloud storage, data centers, or the like, which are accessible over the Internet. The access may be wired or wireless. In vehicles, the connection to the Internet may be wireless, and the connection can be continuous or non-continuous depending connection. Code on the vehicle electrons can execute at least some of the method operations when not connected and other operations are executed jointly between vehicle electronics (e.g., memory, code and processors of a vehicle) and cloud processing, which may implement one or more servers, either virtual or not.

[00188] It will be obvious, however, to one skilled in the art, that the present invention may be practiced without some or all of these specific details. In other instances, well known process operations have not been described in detail in order not to unnecessarily obscure the present invention.

[00189] The various embodiments defined herein may define individual implementations or can define implementations that rely on combinations of one or more of the defined embodiments. Further, embodiments of the present invention may be practiced with various computer system configurations including hand-held devices,

microprocessor systems, microprocessor-based or programmable consumer electronics, minicomputers, mainframe computers and the like. The invention can also be practiced in distributed computing environments where tasks are performed by remote processing devices that are linked through a wire-based or wireless network.

[00190] With the above embodiments in mind, it should be understood that the invention could employ various computer-implemented operations involving data stored in computer systems. These operations are those requiring physical manipulation of physical quantities. Usually, though not necessarily, these quantities take the form of electrical or magnetic signals capable of being stored, transferred, combined, compared and otherwise manipulated.

[00191] Any of the operations described herein that form part of the invention are useful machine operations. The invention also relates to a device or an apparatus for performing these operations. The apparatus can be specially constructed for the required purpose, or the apparatus can be a general-purpose computer selectively activated or configured by a computer program stored in the computer. In particular, various general-purpose machines can be used with computer programs written in accordance with the teachings herein, or it may be more convenient to construct a more specialized apparatus to perform the required operations.

[00192] The invention can also be embodied as computer readable code on a computer readable medium. The computer readable medium is any data storage device that can store data, which can thereafter be read by a computer system. The computer readable medium can also be distributed over a network-coupled computer system so that the computer readable code is stored and executed in a distributed fashion.

[00193] Additional embodiments can include, without limitation, the following:

[00194] A1. A method for defining a user profile for a vehicle, the vehicle profile being managed via a cloud processing system, comprising,

receiving a plurality of settings for a user profile for the vehicle;

communicating the user profile to the vehicle; and

causing adjustment of the settings of the user profile over time based on learned behavior at the vehicle, the method being executed by a processor.

[00195] B1. A method for managing a user profile of a vehicle on a cloud processing system connected to the Internet, comprising,

accessing the user profile to define settings for one or more vehicles;

communicating input to user settings at the vehicle to the cloud processing system, the cloud processing system processing the input over time to learn behavior associated with the input to the use settings;

receiving automatic settings at the vehicle based on the learned behavior, the method being executed by a processor.

[00196] B2. The method of claim C1, wherein the accessing is via electronics of the vehicle having access to the Internet.

[00197] B3. The method of claim C2, wherein the accessing is via a computer having access to the Internet and credentials for accessing the user profile.

[00198] B4. The method of claim C2, wherein the user profile is transferrable to one or more vehicles, or transferrable to another vehicle for a period of time.

[00199] C1. A method for managing a user profile of a vehicle on a cloud processing system connected to the Internet, comprising,

receiving requests to access the user profile to define settings for one or more vehicles;

receiving input to user settings at the vehicle at the cloud processing system;

processing the input over time to learn behavior associated with the input to the use settings; and

transmitting settings to the vehicle to be automatically implemented based on the learned behavior, the method being executed by a processor.

[00200] C2. The method of claim D1, wherein the user profile is transferrable to one or more vehicles, or transferrable to another vehicle for a period of time.

[00201] C3. The method of claim D1, wherein the user profile is transferrable to a rental vehicle.

[00202] C4. The method of claim D3, wherein the profile includes automatic payment settings to allow the vehicle to make wireless payment for services.

[00203] Although the foregoing invention has been described in some detail for purposes of clarity of understanding, it will be apparent that certain changes and modifications can be practiced within the scope of the appended claims. Accordingly, the present embodiments are to be considered as illustrative and not restrictive, and the invention is not to be limited to the details given herein, but may be modified within the scope and equivalents of the description and claims.

what is claimed is:

CLAIMS

1. A vehicle, comprising:

an on-board computer;

a communications system interfaced with the on-board computer, the communications system is configured to communicate with a server of a cloud services system;

the on-board computer, using the communications system is configured to communicate with the server to access a profile associated with a user account, the profile includes a plurality of settings for the vehicle; and

the on-board computer, using the communications system is configured to communicate an update to one of said plurality of settings to the server during a first session of use of the vehicle;

wherein the server is configured to save said profile that includes said plurality of settings and said update in storage associated with said cloud services system;

wherein during a second session of user of the vehicle, the on-board computer, using the communications system is configured to access the profile from the server using the user account, the access of the profile is configured to automatically apply the plurality of settings associated to the profile to the vehicle.

2. The vehicle of claim 1, wherein said on-board computer includes a processor for processing program instructions communicating with the server using the communications system and program instructions for accessing the plurality of settings associated with said profile and applying said plurality of settings to one or more systems of the vehicle.

3. The vehicle of claim 1, wherein the profile is usable on one or more other vehicles provided with access to the user account, such that said one or more other vehicles use one or more of the plurality of settings obtained from said cloud services system.

4. The vehicle of claim 1, wherein one or more of said plurality of settings for the vehicle associated with the profile are activated during use of the vehicle using the user account and removed from the vehicle when the use of the vehicle using the user account is ended.

5. The vehicle of claim 1, wherein said on-board computer includes program instructions for learning of inputs made to systems of the vehicle, the learning of inputs provides for generating a recommendation for a new setting to be added to the profile.

6. The vehicle of claim 5, wherein the recommendation is further processed by the server in association with the user account.

7. The vehicle of claim 5, wherein new setting is added to the profile when the recommendation is accepted by a user of the profile.

8. The vehicle of claim 5, wherein the recommendation is generated in part based on processing patterns of user of inputs by a user of the user profile, and said patterns are correlated to one or more conditions, the one or more conditions include a type of input, or a time of day inputs, or a temperature, or a security, or a number of

occupants in the vehicle, or weather, or age of the vehicle, or a service requirement of the vehicle.

9. The vehicle of claim 1, wherein the profile is automatically applied to the vehicle during the first session upon detecting a pairing between the vehicle and a user device of the user, or input of credentials of the user for the user account.

10. The vehicle of claim 1, wherein one or more of the settings associated with the profile are configured for activation in another vehicle, said another vehicle having communication with the server for downloading of said settings to the vehicle.

11. The vehicle of claim 1, wherein the profile is activated on the vehicle when a mobile device of the user is paired with the vehicle or user information, including biometrics data, is received by the vehicle.

12. The vehicle of claim 1, wherein the profile includes one or more roles for the plurality of settings, wherein each role includes one or more of fuel use settings, or driving restriction settings, or location based settings, or time based use settings, or automatic purchase settings, or combinations of two or more thereof.

13. The vehicle of claim 1, wherein one or more of the settings are associated with systems of the vehicle, and the systems of the vehicle are configured to receive input or cause one or more actions or functions,

wherein the systems include one or more of a door lock, a heating and cooling system, a speaker, an engine start/shut switch, a user interface, a button, a lever, a key,

a graphical user interface (GUI), an electronic component of the vehicle, a telecommunications system, a remote face-to-face conferencing system, a mapping function system, a GPS system, a fingerprint scanner, a touch screen, a navigation system, a wireless communication system, a data encryption system, WiFi logic, Bluetooth logic, NFC logic, a microprocessor, a memory system, a camera, application programming interfaces (APIs) for vehicle systems, kernel level systems, function invoking systems, temperature detection systems, HVAC APIs, display screens, data network logic, mechanical systems, electrical systems, physical mechanical and electrical systems, seat mechanical systems, mirror systems, alarm systems, battery systems, battery, lighting systems, an application shared by mobile a device present and paired with the vehicle for providing at least one interface in a display screen of the vehicle, or vehicle electronics system.

14. The vehicle of claim 1, wherein the plurality of settings include one or more of tracking settings, or use metrics settings, or comfort settings, or entertainment settings, or driving mode settings, or refuel routing settings, or purchase settings, or combinations of two or more thereof.

15. The vehicle of claim 1, wherein the profile stored in the storage is accessible via a device using a connection to the Internet and/or a vehicle interface of the vehicle, and the device is one of a portable device, or a computer.

16. The vehicle of claim 1, wherein access to the profile includes validation of a user of the user account, and said validation includes one or more of sign-in

credentials, or biometrics or face recognition data, or voice data, or fingerprint data, or eye-retina scan data, or a combination of two or more thereof.

17. A cloud-based system including one or more data centers, and each data center of the cloud-based system includes one or more servers, wherein some of said one or more servers have program instructions for enabling connections with vehicles and providing services to vehicles, wherein one service includes enabling access to settings associated with profiles of user accounts of the cloud-based system, comprising:

a server for receiving a request from a vehicle to access a profile for a user account, the request identifies user information related to a user;

a server for processing at least part of the user information to verify the access, the profile having a plurality of settings of the user for the vehicle, at least part of the plurality of settings of the profile being stored on storage accessible to said one or more servers; and

a server for transferring, upon verification of the user information, one or more settings of the plurality of settings to the vehicle, the transferring is configured to instruct software and hardware associated the vehicle to enable said one or more settings one the vehicle for customizing said vehicle for the user, the request and the transferring being via wireless communication of said vehicle.

18. The cloud-based system of claim 17, wherein the profile is transferrable to one or more other vehicles.

19. The cloud-based system of claim 17, wherein the vehicle is configured to use the one or more settings for the vehicle while the profile is active in the vehicle, and said one or more settings are removed when the profile is no longer active in the vehicle, and wherein the request is processed automatically by the vehicle upon a pairing of a user device or input by the user of credentials.

20. The cloud-based system of claim 17, wherein one or more of the settings are associated with systems of the vehicle, and the systems of the vehicle are configured to receive input or cause one or more actions or functions,

wherein the systems include one or more of a door lock, a heating and cooling system, a speaker, an engine start/shut switch, a user interface, a button, a lever, a key, a graphical user interface (GUI), an electronic component of the vehicle, a telecommunications system, a remote face-to-face conferencing system, a mapping function system, a GPS system, a fingerprint scanner, a touch screen, a navigation system, a wireless communication system, a data encryption system, WiFi logic, Bluetooth logic, NFC logic, a microprocessor, a memory system, a camera, application programming interfaces (APIs) for vehicle systems, kernel level systems, function invoking systems, temperature detection systems, HVAC APIs, display screens, data network logic, mechanical systems, electrical systems, physical mechanical and electrical systems, seat mechanical systems, mirror systems, alarm systems, battery systems, battery, lighting systems, an application shared by mobile a device present and paired with the vehicle for providing at least one interface in a display screen of the vehicle, or vehicle electronics system.

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

ABSTRACT

Methods and systems for communicating with a server of a cloud services system used to interface with vehicles are provided. One method includes receiving, by the server, a request from electronics of a vehicle to access a profile for a user account. The request identifies user information for a user to use the vehicle. The method includes processing, by the server, at least part of the user information to verify the user against data associated with the user account. The profile has a plurality of settings of the user for the vehicle, and at least part of the plurality of settings for the profile being stored on storage accessible to the cloud services system. The method includes transferring, by the server, upon verification of the user information, one or more settings of the plurality of settings to the vehicle. The transferring is configured to instruct software associated with said electronics of the vehicle to apply said one or more settings to the vehicle for customizing said vehicle to use said one or more settings, and the vehicle uses wireless communication with the cloud services system to receive said one or more settings for the profile. And, the profile is transferrable from vehicle to vehicle used by the user, so user settings go with the user. The profile, in one example, is activated automatically in a vehicle upon pairing a device with the vehicle.

CD Submission Review Results

Internal Worksheet Only - Do Not Scan

Application Number	17873096	Receipt Date	Jul 25, 2022

X	New Application		Response To Notice	Date Of Response

[ ] Jumbo – Large tables are included on the

[X] There are no problems with the CDs in the submission

Items checked below are to be selected in the PALM Pre-Exam CD problem

Omitted Items

	Files on compact disc are unreadable:
	Disc(s) of either set not readable:
	Disc(s) do not contain file names listed:
	Amended CD missing unamended files
	Missing compact discs

Missing Parts

	Disc(s) do not contain file names listed
	Discs contains files that are non-ASCII files:
	Only one copy of the CD, no duplicate:
	Wrong media type, e.g., CD-RW:
	The transmittal letter and specification do not list information:
	Both disc(s) contain unreadable files:
	One disc(s) contain unreadable files:
	Compact disc(s) contain viruses, but are still readable:
	EFS/Paper Submission:
	Table does not maintain data in proper alignment:
	Not proper subject matter for CD's:

Informality

	No statement in transmittal letter that CD's are the same:
	No incorporation by reference statement for the CD's:
	CD's not labeled "Copy 1" and "Copy 2":
	Deficient CD packaging:
	Deficient Labeling on CD's:
	The transmittal letter does not list information:
	The specification does not list information:
	Table less than 51 pages submitted on CD:

File Directory Attachment

	Copy of file directory listing is attached and should be mailed to applicant
	Copy of file directory listing is not attached
	Copy of file directory listing is not attached because it is over one page long

Additional Comments

SCORE Placeholder Sheet for IFW Content

Application Number: 17873096 Document Date: 07/25/2022

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

- Drawing

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
17/873,096	07/25/2022		830	VOLTP018.5.1.C4	20	2

CONFIRMATION NO. 1006

25920
PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066

FILING RECEIPT



Date Mailed: 12/09/2022

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

Angel A. Penilla, Sacramento, CA;
Albert S. Penilla, Santa Cruz, CA;

Applicant(s)

Emerging Automotive, LLC, Los Altos, CA;

Power of Attorney:
Albert Penilla--39487

Domestic Priority data as claimed by applicant

This application is a CON of 16/788,253 02/11/2020 PAT 11396244
which is a CON of 16/285,706 02/26/2019 PAT 10652312
which is a CON of 14/987,755 01/04/2016 PAT 10218771
which is a CON of 13/842,158 03/15/2013 PAT 9229905
which claims benefit of 61/745,729 12/24/2012
and said 16/285,706 02/26/2019
is a CIP of 13/452,881 04/22/2012 PAT 10217160
which claims benefit of 61/478,436 04/22/2011

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: No

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 12/06/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/873,096**

Projected Publication Date: 03/16/2023

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 17/873,096

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	80		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	350		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	400		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*	x 50 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*	x 240 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	830		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

To: pipdocket@penillaip.com,efrain@penillaip.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 25920

Dec 09, 2022 03:29:28 AM

Dear PAIR Customer:

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 25920 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

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Disclaimer:
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Application	Document	Mailroom Date	Attorney Docket No.
17873096	APP.FILE.REC	12/09/2022	VOLTP018.5.1.C4

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/873,096	07/25/2022	Angel A. Penilla	VOLTP018.5.1.C4

CONFIRMATION NO. 1006

25920
PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066

PUBLICATION NOTICE

OC000000137582949

Title:SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Publication No.US-2023-0077434-A1
Publication Date:03/16/2023

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

To: pipdocket@penillaip.com,efrain@penillaip.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 25920

Mar 17, 2023 07:55:49 AM

Dear PAIR Customer:

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 25920 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
17873096	NTC.PUB	03/16/2023	VOLTP018.5.1.C4

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

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Thank you for prompt attention to this notice,

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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

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UNITED STATES DEPARTMENT OF COMMERCE
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,096	07/25/2022	Angel A. Penilla	VOLTP018.5.1.C4	1006

25920 7590 06/14/2024

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066

EXAMINER
BRUSHABER, FREDERICK M

ART UNIT	PAPER NUMBER
3665	

NOTIFICATION DATE	DELIVERY MODE
06/14/2024	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efrain@penillaip.com
pipdocket@penillaip.com

Office Action Summary	Application No. 17/873,096	Applicant(s) Penilla et al.	
	Examiner FREDERICK M BRUSHABER	Art Unit 3665	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 7/25/2022.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☐ Claim(s) _____ is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☑ Claim(s) 1-20 are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1 – 16, drawn to a vehicle apparatus that updates a user profile which upon a second use applies the updated settings to the vehicle, classified in H04L 67/306.

II. Claims 17 – 20, drawn to system that stores a profile in the cloud and upon verification transfers settings to the vehicle, classified in B60W 40/08.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are directed to related apparatus and systems. The related inventions are distinct if: (1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as claimed are not obvious variants. See MPEP § 806.05(j). In the instant case, the inventions as claimed have a materially different design, mode of operation, function, or effect. Furthermore, the inventions as claimed do not encompass overlapping subject matter and there is nothing of record to show them to be obvious variants.

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

(a) the inventions have acquired a separate status in the art in view of their different classification;

(b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;

(c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);

(d) the prior art applicable to one invention would not likely be applicable to another invention;(e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of an invention to be examined even though the requirement may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected invention**.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named

inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FREDERICK M BRUSHABER whose telephone number is (313)446-4839. The examiner can normally be reached Monday-Friday 8am-5pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hunter Lonsberry can be reached on (571) 272-7298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/FREDERICK M BRUSHABER/
Primary Examiner, Art Unit 3665

TO: pipdocket@penillaip.com,efrain@penillaip.com
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - Correspondence Notification for Customer Number 25920

Fri Jun 14 05:01:05 EDT 2024

Dear Patent Center Customer:

Correspondence Address:

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley,CALIFORNIA,95066
UNITED STATES

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Application	Document	Mailroom Date	Attorney Docket No.
17873096	CTRS	06/14/2024	VOLTP018.5.1.C4

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Sincerely,

The Patent Center Team

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/873,096	**08/08/2024 11:27:36 PM Z ET**	**VOLTP018.5.1.C4**

Title of Invention

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1006	FILED BY	Albert Penilla
PATENT CENTER #	66718502	FILING DATE	07/25/2022
CUSTOMER #	25920	FIRST NAMED INVENTOR	Angel A. Penilla
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
VOLTP0185_1_C4_Amendment_Efiledd.pdf	1	Response to Election / Restriction Filed	19 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
VOLTP0185_1_C4_Amendment_Efiledd.pdf	AAA5BC9B64451CB589C3DB9035CEC770ADC4DB7D92B2E621E123870703DE22333B3BFB405C89D639F191C44814014DF1023E9C3D0242D3A57172D806F023D833

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Angel A. Penilla Application No: 17/873,096 Filed: July 25, 2022 For: METHODS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES	Group Art Unit: 3665 Confirmation No. 1006 Examiner: Frederick M. Brushaber Atty. Docket No: VOLTP018.5.1.C4 Date: Aug. 8, 2024

RESPONSE TO RESTRICTION

Honorable Commissioner for Patents
Alexandria VA 22313-1450

This paper is responsive to the Office action dated **June 14, 2024**. The due date extends to **Aug. 14, 2024**.

The Applicant elects Group II, claims 17-20, without traverse, to prosecute in this application.

Please cancel claims 1-16.

A Notice of Allowance is respectfully requested.

If the Examiner has any questions concerning the present amendment, the Examiner is kindly requested to contact the undersigned at (408) 749-6903. If any other fees are due in connection with filing this amendment, the Commissioner is also authorized to charge Deposit Account No. 50-0805 (Order No VOLTP018.5.C4).

Respectfully submitted,
PENILLA IP, APC

/Albert Penilla/

Albert S. Penilla, Esq.
Reg. No. 39,487

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,096	07/25/2022	Angel A. Penilla	VOLTP018.5.1.C4	1006

25920 7590 08/19/2024

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066

EXAMINER
BRUSHABER, FREDERICK M

ART UNIT	PAPER NUMBER
3665	

NOTIFICATION DATE	DELIVERY MODE
08/19/2024	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efrain@penillaip.com
pipdocket@penillaip.com

Office Action Summary	Application No. 17/873,096	Applicant(s) Penilla et al.	
	Examiner FREDERICK M BRUSHABER	Art Unit 3665	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 8/8/2024.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 17-20 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 17-20 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 7/25/2022 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Election/Restrictions

Claim 1-16 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention Group I, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 8/8/2024. The claims 1-16 are cancelled.

Status of the Claims

Claims 1-16 are canceled after the election response. Claims 17-20 are pending and examined below.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application,

or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 et seq. for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-l.jsp.

Claim 17-20 are rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1-20 of U.S. Patent No. 9229905. Although the claims at issue are not identical, they are not patentably distinct from each other because it appears the limitations of the claim sets are a mix of the previous limitations presented through 9229905.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112(a):

> (a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

The following is a quotation of the first paragraph of pre-AIA 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person

skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 17-20 rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor or a joint inventor, or for applications subject to pre-AIA 35 U.S.C. 112, the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 17 has language that refers to "user information" the spec is silent when searched. The scope of "user information" is not identified to understand the bounds of the claims.

Claim 17-20 rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, because the specification, while being enabling for some forms of requests based on user information, does not reasonably provide enablement for the request identifying user information related to the user because the "user information" is not ascertainable to the scope. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims. The claims are claimed broadly capturing both disclosed and non-disclosed matter in the electrical/computer arts for vehicle controls, vehicle controls is an evolving art incorporating more inputs and reactions than previously demanded by the art. Here a programmer is has a high level of skill, programing is predictable yet the effects on the other vehicle systems may be unpredictable for a programmer. It is unknown if there are working examples. Here the inventor provides only a broad generalization of the vehicle control implementation, a high quality of experimentation is needed, and creating a program from scratch requires experimentation to balance out the vehicle dynamics and other parameters

35 USC § 101

The claims were evaluated for compliance with Alice rational and meet the requirements for 101.

Claim Rejections - 35 USC § 102

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim(s) 17-20 is/are rejected under pre-AIA 35 U.S.C. 102(a)/(b) as being anticipated by US 20090144622A1, hereinafter Evans.

As to claim 17, Evans discloses a cloud-based system including one or more data centers, and each data center of the cloud-based system includes one or more servers **[Evans: 0042 memory stores includes Servers]**, wherein some of said one or more servers have program instructions for enabling connections with vehicles and providing services to vehicles **[Evans: 0039, 0043]**, wherein one service includes enabling access to settings associated with profiles of user accounts of the cloud-based system**[Evans: Fig. 14 implementation Step 908, 0064]**, comprising:

a server for receiving a request from a vehicle to access a profile for a user account **[Evans: 0029, Fig. 14]**, the request identifies user information related to a user [**Evans: 0029, Fig. 14 e.g., the RFID tag associated with the user with the profile]**;

a server for processing at least part of the user information to verify the access **[Evans: 0062 "On-board vehicle computer system 12 automatically receives data from an RFID tag in a personal item of the user to identify the user at step 904."]**, the profile having a plurality of settings of the user for the vehicle **[Evans: 0063]**, at least part of the plurality of settings of the profile being stored on storage accessible to said one or more servers **[Evans: 0039]**; and

a server for transferring **[Evans: 0039]**, upon verification of the user information **[Evans: Fig. 14 Verification Step 904]**, one or more settings of the plurality of settings to the vehicle **[Evans: Fig. 14 implementation Step 908]**, the transferring is configured to instruct software and hardware associated the vehicle to enable said one or more settings one the vehicle for customizing said vehicle for the user **[Evans: Fig. 14 implementation Step 908]**, the request and the transferring being via wireless communication of said vehicle **[Evans: This being an in vehicle device Fig 1 and disclosing the memory being a server 0039 implies that this is wireless communication. Further, Claim 6, 0025]**.

As to claim 18, Evans discloses wherein the profile is transferrable to one or more other vehicles **[Evans: abstract, 0018]**.

As to claim 19, Evans discloses wherein the vehicle is configured to use the one or more settings for the vehicle while the profile is active in the vehicle, and said one or more settings are removed when the profile is no longer active in the vehicle, and wherein the request is processed automatically by the vehicle upon a pairing of a user device or input by the user of credentials **[Evans: 0028-0029 automaticly applying rules that are associated with the profiles]**.

As to claim 20, Evans discloses wherein one or more of the settings are associated with systems of the vehicle, and the systems of the vehicle are configured to receive input or cause one or more actions or functions **[Evans: 0029]**,

wherein the systems include one or more of a door lock, a heating and cooling system **[Evans: 0048]**, a speaker, an engine start/shut switch, a user interface, a button, a lever, a key, a graphical user interface (GUI), an electronic component of the vehicle, a telecommunications system, a remote face-to-face conferencing system, a mapping function system, a GPS system, a fingerprint scanner, a touch screen, a navigation system, a wireless communication system, a data encryption system, WiFi logic, Bluetooth logic, NFC logic **[Evans: 0046, 0048]**, a microprocessor, a memory system, a camera, application programming interfaces (APIs) for vehicle systems, kernel level systems, function invoking systems, temperature detection systems, HVAC APIs, display screens, data network logic, mechanical systems, electrical systems, physical mechanical and electrical systems, seat mechanical systems **[Evans: 0048]**, mirror systems, alarm systems, battery systems, battery, lighting systems, an application shared by mobile a device present and paired with the vehicle for providing at least one interface in a display screen of the vehicle, or vehicle electronics system.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 20070207789 A1 Included are embodiments of a method for communicating user preferences to at least one environment. At least one embodiment includes receiving a request from an environment for preference information related to a user and receiving a user identifier from the environment, the user identifier obtained via a portable user device. Other embodiments include determining at least one user preference related to the user, determining capabilities related to the environment, and communicating at least one user preference to the environment.

The examiner has pointed out particular references contained in the prior art of record in the body of this action for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. Applicant should consider the entire prior art as applicable as to the limitations of the claims. It is respectfully requested from the applicant, in preparing the response, to consider fully the entire references as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FREDERICK M BRUSHABER whose telephone number is (313)446-4839. The examiner can normally be reached Monday-Friday 8am-5pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hunter Lonsberry can be reached on (571) 272-7298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like

assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or

571-272-1000.

/FREDERICK M BRUSHABER/
Primary Examiner, Art Unit 3665

Notice of References Cited	Application/Control No. 17/873,096	Applicant(s)/Patent Under Reexamination Penilla et al.	
	Examiner FREDERICK M BRUSHABER	Art Unit 3665	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-20140310031-A1	2014-10-16	Ricci; Christopher P.	G06Q30/0633	705/5
*	B	US-20150203125-A1	2015-07-23	Penilla; Angel A.	G07C5/0808	701/1
*	C	US-20090204316-A1	2009-08-13	Klampfl; Erica	G01C21/3679	701/410
*	D	US-20090150167-A1	2009-06-11	Patenaude; Russell A.	G06Q99/00	705/345
*	E	US-20120087634-A1	2012-04-12	Lalwaney; Poornima	H04L65/1093	386/E5.003
*	F	US-20140310788-A1	2014-10-16	Ricci; Christopher P.	H04W4/12	726/6
*	G	US-20140309862-A1	2014-10-16	Ricci; Christopher P.	B60W50/08	701/36
*	H	US-9684911-B2	2017-06-20	Audet; Mathieu	G06Q30/0645	1/1
*	I	US-7006986-B1	2006-02-28	Sines; Randy D.	G06Q30/0613	705/26.81
*	J	US-6155954-A	2000-12-05	Itoyama; Hiroyuki	B60L50/61	903/905
*	K	US-8209436-B2	2012-06-26	Esteve Asensio; Guillermo	G06F9/4451	709/250
*	L	US-8768313-B2	2014-07-01	Rodriguez; Tony F.	H04N1/00331	455/414.1
*	M	US-9229905-B1	2016-01-05	Penilla; Angel A.	G06Q20/18	1/1

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	O					
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	Q					
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NON-PATENT DOCUMENTS

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Notice of References Cited	Application/Control No. 17/873,096	Applicant(s)/Patent Under Reexamination Penilla et al.	
	Examiner FREDERICK M BRUSHABER	Art Unit 3665	Page 2 of 2

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*	A	US-9373149-B2	2016-06-21	Abhyanker; Raj	G06Q10/10	1/1
*	B	US-9372607-B1	2016-06-21	Penilla; Angel A.	G06F3/04883	1/1
*	C	US-8463488-B1	2013-06-11	Hart; Paul	G07C5/008	701/32.4
*	D	US-9171268-B1	2015-10-27	Penilla; Angel A.	B60L1/06	1/1
*	E	US-20110060480-A1	2011-03-10	Mottla; Lesley	G07C9/00571	701/2
*	F	US-20130090781-A1	2013-04-11	Gellatly; Andrew W.	B60R25/25	701/2
*	G	US-20070207789-A1	2007-09-06	Zellner; Samuel N.	H04M3/4931	455/415
*	H	US-20090144622-A1	2009-06-04	Evans; David K.	G06F3/04886	715/706
*	I	US-6064996-A	2000-05-16	Yamaguchi; Masashi	F02D41/1401	706/20
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	L					
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,096	Penilla et al.
	Examiner	Art Unit
	FREDERICK M BRUSHABER	3665

CPC - Searched*		
Symbol	Date	Examiner
B60L53/665 or B60L53/68 or B60W40/08 or G06F17/00 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q20/325 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or H04L67/06 or H04L67/10 or H04L67/306 or H04W4/02 or H04W4/029 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T10/70 or Y02T10/7072 or Y02T10/72 or Y02T90/12 or Y02T90/14 or Y02T90/16 or Y02T90/167 or Y04S30/14 or B60L53/67 or B60L2240/68 or B60L2240/72 or B60L2240/80 or B60W40/09 or B60W2540/043 or B60W2556/10 or G06Q20/145 or G06Q20/308 or G08G1/205 or H04L63/0861 or H04W4/80 or H04W12/06 or H04W12/50	08/14/2024	FB

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
IP.com see attached search history	08/14/2024	FB
SEARCH see attached search history	08/14/2024	FB

/FREDERICK M BRUSHABER/ Primary Examiner, Art Unit 3665	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,096	Penilla et al.
	Examiner	Art Unit
	FREDERICK M BRUSHABER	3665

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
Keyword SEARCH		08/14/2024	FB

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	159	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/09/28 05:23 PM
L2	89	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 05:40 PM
L3	488335	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 05:45 PM
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		Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				05:45 PM
L5	64	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 05:53 PM
L6	143	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 05:54 PM
L7	26	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 05:54 PM
L8	16953	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 05:58 PM
L9	39	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 06:02 PM
L10	9	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 06:07 PM
L11	27	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2019/09/28 06:46 PM

			IBM_TDB)				
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L14	9	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:04 PM
L15	74	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:04 PM
L16	89	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:05 PM
L17	64	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:07 PM
L18	38	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:07 PM
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		(biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				07:09 PM
L20	1358	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/09/28 07:21 PM

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L21	1224	("20020064258" |	(US-PGPUB; USPAT;	OR	ON	ON	2019/09/28

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		"20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754"				

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		"9171268" | "9229905" | "9372607").URPN.					
L22	342	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:26 PM
L23	0	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:27 PM
L27	10	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L28	166	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2020/01/06 04:08 PM
L29	591502	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM

		Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L30	180547	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L31	96	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L32	42	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L33	68	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L34	10	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L36	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/07/01 06:40 PM
L37	211	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2021/07/01 06:41 PM

		("Albert"))).INV.					
L38	111	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2021/07/01 07:08 PM
L39	108471	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2021/07/01 07:10 PM
L40	186	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2021/07/01 07:27 PM
L41	7	L40 and L37	(USPAT)	OR	ON	ON	2021/07/01 07:29 PM
L42	86	L40 and L39	(USPAT)	OR	ON	ON	2021/07/01 07:29 PM
L43	33	((transfer$4 sending sent receiv$4 transc$4) same (user driver)	(USPAT)	OR	ON	ON	2021/07/01 07:31 PM

		near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L44	98	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2021/07/01 07:32 PM
L45	8799	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:35 PM
L46	617	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:40 PM

L47	911	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:41 PM
L48	911	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:41 PM
L49	34600	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:49 PM
L50	37948	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:49 PM

		volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L51	55697	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:51 PM
L52	10733	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:59 PM
L53	46983	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:59 PM
L54	735	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:05 PM
L55	12	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:05 PM
L56	1072	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:07 PM

		AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L57	4775	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:08 PM
L58	5602	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:13 PM
L59	634	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:19 PM
L60	100	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:19 PM
L61	1875	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:25 PM

		near3 (verify verification identifier)					
L62	154	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:25 PM
L63	55	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:28 PM
L64	303	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:30 PM
L65	426	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:32 PM

L66	46	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:34 PM
L67	1865	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 09:31 PM
L68	1360	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 09:31 PM

		reclin$4))					
L69	134	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 09:53 PM
L70	97	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 09:55 PM
L71	228	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 10:08 PM
L72	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 10:15 PM

		reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L73	324	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 10:16 PM
L74	2407	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/01 11:10 PM

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		| "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405"				

		| "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075"				

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L75	215	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2021/11/15 06:31 PM
L76	153	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L77	772490	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L78	170679	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L79	81	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L80	187	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L81	32	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L82	43578	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L83	52	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

L84	13	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L85	31	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L86	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/15 06:31 PM
L87	88	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L88	13	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L89	88	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L90	153	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		account) and (profile account) with vehicle with (settings preferences)					
L91	81	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L92	49	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L93	13	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L94	1616	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/15 06:31 PM

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		"20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885"				

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		"5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135"					

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L96	439	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L97	1	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L98	13	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L99	215	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2021/11/15 06:31 PM
L100	772490	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L101	170679	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L102	153	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L103	49	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L104	81	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L105	13	(vehicle near10 (biometric face fingerprint voice)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2021/11/15 06:31 PM

		near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	IBM_TDB)				
L106	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/15 06:31 PM
L107	215	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2021/11/15 06:31 PM
L108	120	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L109	112970	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L110	181	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L111	7	L40 and L37	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L112	85	L40 and L39	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L113	29	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L114	83	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L115	8368	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L116	629	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2021/11/15 06:31 PM

		customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	IBM_TDB)				
L117	804	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L118	804	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L119	33844	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L120	37114	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L121	55289	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L122	10015	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L123	47099	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L124	1585	L52 and L39	(US-PGPUB; USPAT;	OR	ON	ON	2021/11/15

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				06:31 PM
L125	13	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L126	927	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L127	4809	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L128	5528	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L129	1618	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L130	103	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

L131	1794	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L132	166	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L133	49	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L134	729	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L135	431	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		(transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L136	51	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L137	1853	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L138	1296	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L139	316	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L140	100	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L141	231	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L142	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L143	326	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L144	2468	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/15 06:31 PM

		"20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963"				

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		| "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4556198" | "4779203" | "4789047" | "4815840" | "4914605" | "4996468" | "5006988" | "5032989" | "5049802" | "5050844" | "5121112" | "5132666" | "5184058" | "5199686" | "5202617" | "5208750" | "5297664" | "5306999" | "5315227" | "5325294" | "5327066" | "5343970" | "5372211" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5521817" | "5548200" | "5549443" | "5555502" | "5563491" | "5572449" | "5577567" | "5581630" | "5584025" | "5585205" | "5590062" | "5594318" | "5595271" | "5596258" | "5612606" | "5617319" | "5627752" | "5630103" | "5636145" | "5642270" | "5666102" | "5671342" | "5691695" | "5694019" | "5701706" | "5720363" | "5736833" | "5751245" | "5760569" | "5774133" | "5778326" | "5790976" | "5793028" | "5794207" | "5805719" | "5805810" | "5819269" | "5826244" | "5826245" | "5831664" | "5835896" | "5838812" | "5852810" | "5870723" | "5883810" | "5892598" | "5903721" | "5904214" | "5905499" | "5907322" | "5916285" | "5917407" | "5926765" | "5930474" | "5937413" | "5940806" | "5974136" | "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR				

		("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307"					

		| "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603"				

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		| "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734"				

		| "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.				
L145	2878	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:42 PM
L146	1535	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:44 PM

		(restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L147	80	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:45 PM
L148	9	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:45 PM
L149	80	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:49 PM
L150	62	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:49 PM

		(restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)					
L151	1001062	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:50 PM
L152	35	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:51 PM
L153	219	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 09:12 PM
L154	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)					
L155	791168	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L156	177752	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		Y02T10/7044).cpc.					
L157	83	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L158	190	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L159	33	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L160	44650	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L161	54	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L162	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L163	32	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L164	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/03/09 09:12 PM
L165	90	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

L166	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L167	90	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L168	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L169	83	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L170	50	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L171	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L172	1647	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 09:12 PM

		"20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072"				

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L173	1330	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		"20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249"				

		"20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242"				

		"20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189"				

		"20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205"				

		"7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L174	453	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L175	1	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L176	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L177	219	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 09:12 PM
L178	791168	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L179	177752	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L180	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L181	50	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L182	83	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L183	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L184	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/03/09 09:12 PM
L185	219	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 09:12 PM
L186	130	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L187	116504	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM

		G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L188	186	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L189	7	L40 and L37	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L190	86	L40 and L39	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L191	30	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L192	86	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM

		automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L193	8621	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L194	643	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L195	838	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

L196	838	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L197	34860	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L198	38214	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L199	56925	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L200	10318	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L201	48499	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L202	1626	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L203	13	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L204	960	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L205	4973	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		(user driver customer profile) near4 (verify verification identifier)					
L206	5720	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L207	1667	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L208	106	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L209	1858	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L210	170	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		driver customer profile) near3 (verify verification identifier)).clm.					
L211	49	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L212	748	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L213	450	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L214	52	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		driver customer profile) near3 (verify verification identifier)).clm.					
L215	1951	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L216	1359	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L217	331	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L218	103	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L219	241	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L220	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L221	340	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L222	2523	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 09:12 PM

		"20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030204290" | "20030205619" | "20030218253" | "20030220807" | "20030220835").PN.				

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		| "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208"					

		| "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372"					

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		"6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L223	219	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 09:12 PM
L224	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L225	791168	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

L226	177752	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L227	83	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L228	190	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L229	33	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L230	44650	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L231	54	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L232	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L233	32	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2022/03/09 09:12 PM

			JPO; DERWENT; IBM_TDB)				
L234	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/03/09 09:12 PM
L235	90	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L236	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L237	90	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L238	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L239	83	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L240	50	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

L241	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L242	1647	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 09:12 PM

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		"20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624"				

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		"20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932"				

		"6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR				

		("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L244	453	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L245	1	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L246	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L247	219	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 09:12 PM
L248	791168	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L249	177752	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L250	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L251	50	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L252	83	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L253	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L254	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/03/09 09:12 PM
L255	219	((("PENILLA") near3 ("Angel")) OR	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2022/03/09 09:12 PM

		(("PENILLA") near3 ("Albert"))).INV.	DERWENT)				
L256	130	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L257	116504	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L258	186	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L259	7	L40 and L37	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L260	86	L40 and L39	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L261	30	((transfer$4 sending sent receiv$4 transc$4)	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM

		same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L262	86	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L263	8621	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L264	643	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		(position setting))					
L265	838	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L266	838	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L267	34860	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L268	38214	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L269	56925	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L270	10318	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L271	48499	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L272	1626	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L273	13	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L274	960	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L275	4973	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L276	5720	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L277	1667	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L278	106	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L279	1858	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L280	170	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L281	49	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L282	748	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L283	450	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		near3 (verify verification identifier)					
L284	52	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L285	1951	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L286	1359	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		volume (seat chair) near2 (position setting reclin$4))					
L287	331	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L288	103	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L289	241	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L290	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L291	340	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L292	2523	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 09:12 PM

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		| "5325294" | "5327066" | "5343970" | "5372211" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5521817" | "5548200" | "5549443" | "5555502" | "5563491" | "5572449" | "5577567" | "5581630" | "5584025" | "5585205" | "5590062" | "5594318" | "5595271" | "5596258" | "5612606" | "5617319" | "5627752" | "5630103" | "5636145" | "5642270" | "5666102" | "5671342" | "5691695" | "5694019" | "5701706" | "5720363" | "5736833" | "5751245" | "5760569" | "5774133" | "5778326" | "5790976" | "5793028" | "5794207" | "5805719" | "5805810" | "5819269" | "5826244" | "5826245" | "5831664" | "5835896" | "5838812" | "5852810" | "5870723" | "5883810" | "5892598" | "5903721" | "5904214" | "5905499" | "5907322" | "5916285" | "5917407" | "5926765" | "5930474" | "5937413" | "5940806" | "5974136" | "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931"				

		| "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139"				

		| "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687"					

		| "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943"				

		| "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846"				

		| "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L293	2964	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L294	1587	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L295	84	(user driver customer) near3 (profile (user driver) near2(setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2022/03/09 09:12 PM

		preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	IBM_TDB)				
L296	11	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L297	84	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L298	66	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L299	1028754	(B60L53/665 OR	(US-PGPUB; USPAT;	OR	ON	ON	2022/03/09

		B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:12 PM
L300	35	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L301	22	((US-20140309862-A1 OR US-20120087634-A1 OR US-20140310031-A1 OR US-20150203125-A1 OR US-20140310788-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((EP-908339-A1 OR US-20140310788-A1).did. AND DWPI.dbnm.) OR ((US-6155954-A OR US-8768313-B2 OR US-8463488-B1 OR US-8209436-B2 OR US-9684911-B2 OR US-9229905-B1 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:19 PM

		US-9373149-B2 OR US-7006986-B1 OR US-9372607-B1 OR US-9171268-B1 OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.)					
L302	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L303	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L304	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L305	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L306	97	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L307	222	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L308	40	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L309	53016	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L310	62	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L311	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L312	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/04/05 02:05 PM

			JPO; DERWENT; IBM_TDB)				
L313	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L314	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L315	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L316	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L317	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L318	97	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L319	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L320	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L321	1789	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

		"20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570" | "20040122693" | "20040128215" | "20040135805" | "20040138790"				

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L322	1437	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		"20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624"				

		"20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107"				

		"20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932"				

		"6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR				

		("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L323	482	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L324	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L325	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L326	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L327	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L328	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L329	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L330	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L331	97	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L332	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L333	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L334	262	((("PENILLA") near3 ("Angel")) OR	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2024/04/05 02:05 PM

		(("PENILLA") near3 ("Albert"))).INV.	DERWENT)				
L335	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L336	139719	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L337	222	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L338	9	L40 and L37	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L339	100	L40 and L39	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L340	34	((transfer$4 sending sent receiv$4 transc$4)	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM

		same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L341	106	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L342	10390	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L343	758	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		(position setting))					
L344	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L345	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L346	42106	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L347	45994	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L348	68888	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L349	12453	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L350	58718	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L351	1919	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L352	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L353	1140	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L354	6159	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L355	7051	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L356	2073	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L357	127	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L358	2253	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L359	209	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L360	70	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L361	901	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L362	564	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		near3 (verify verification identifier)					
L363	57	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L364	2652	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L365	1759	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		volume (seat chair) near2 (position setting reclin$4))					
L366	413	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L367	124	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L368	323	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L369	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L370	451	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L371	2787	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

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		"20140163771"					
		"20140163774"					
		"20140164126"					
		"20140164559"					
		"20140165091"					
		"20140172192"					
		"20140172265"					
		"20140172727"					
		"20140179353"					
		"20140200742"					
		"20140203077"					
		"20140204360"					
		"20140207333"					
		"20140214261"					
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		"20140218189"					
		"20140222298"					
		"20140222908"					
		"20140232331"					
		"20140236414"					
		"20140236463"					
		"20140253018"					
		"20140254896"					
		"20140277834"					
		"20140277936"					
		"20140278089"					
		"20140300739"					
		"20140316243"					
		"20140337160"					
		"2035218" | "3253806" | "3556438" | "3690397" | "3762669" | "3799063" | "3867682").PN. OR ("4052655" | "4102273" | "4119163" | "4132174" | "4161843" | "4162445" | "4309644" | "4347472" | "4375354" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4556198" | "4779203" | "4789047" | "4815840" | "4914605" | "4996468" | "5006988" | "5032989" | "5049802" | "5050844" | "5121112" | "5132666" | "5184058" | "5199686" | "5202617" | "5208750" | "5297664" | "5306999" | "5315227"					

		| "5325294" | "5327066" | "5343970" | "5372211" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5521817" | "5548200" | "5549443" | "5555502" | "5563491" | "5572449" | "5577567" | "5581630" | "5584025" | "5585205" | "5590062" | "5594318" | "5595271" | "5596258" | "5612606" | "5617319" | "5627752" | "5630103" | "5636145" | "5642270" | "5666102" | "5671342" | "5691695" | "5694019" | "5701706" | "5720363" | "5736833" | "5751245" | "5760569" | "5774133" | "5778326" | "5790976" | "5793028" | "5794207" | "5805719" | "5805810" | "5819269" | "5826244" | "5826245" | "5831664" | "5835896" | "5838812" | "5852810" | "5870723" | "5883810" | "5892598" | "5903721" | "5904214" | "5905499" | "5907322" | "5916285" | "5917407" | "5926765" | "5930474" | "5937413" | "5940806" | "5974136" | "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931"				

		| "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139"					

		| "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687"					

		| "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943"				

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L372	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L373	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L374	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L375	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L376	97	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L377	222	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L378	40	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L379	53016	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L380	62	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/04/05 02:05 PM

			JPO; DERWENT; IBM_TDB)				
L381	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L382	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L383	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L384	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L385	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L386	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L387	211	vehicle with (biometric face fingerprint voice) with (profile account)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/04/05 02:05 PM

		and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	IBM_TDB)				
L388	97	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L389	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L390	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L391	1789	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

		"20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358"				

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L392	1437	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		"20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809"				

		"20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" |				

		"20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443"				

		"5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255"					

		| "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L393	482	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L394	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L395	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L396	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L397	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L398	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L399	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L400	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L401	97	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L402	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L403	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L404	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L405	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L406	139719	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L407	222	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM

		identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L408	9	L40 and L37	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L409	100	L40 and L39	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L410	34	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L411	106	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L412	10390	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L413	758	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L414	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L415	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L416	42106	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L417	45994	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L418	68888	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L419	12453	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L420	58718	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		profile) near4 (verify verification identifier)					
L421	1919	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L422	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L423	1140	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L424	6159	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L425	7051	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L426	2073	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L427	127	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L428	2253	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L429	209	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L430	70	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L431	901	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L432	564	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L433	57	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L434	2652	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L435	1759	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2024/04/05

		automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:05 PM
L436	413	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L437	124	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L438	323	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L439	5	((vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2024/04/05

		automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:05 PM
L440	451	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L441	2787	("20010005829" | "20010016795" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

		"20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489"				

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		| "4119163" | "4132174" | "4161843" | "4162445" | "4309644" | "4347472" | "4375354" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4556198" | "4779203" | "4789047" | "4815840" | "4914605" | "4996468" | "5006988" | "5032989" | "5049802" | "5050844" | "5121112" | "5132666" | "5184058" | "5199686" | "5202617" | "5208750" | "5297664" | "5306999" | "5315227" | "5325294" | "5327066" | "5343970" | "5372211" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5521817" | "5548200" | "5549443" | "5555502" | "5563491" | "5572449" | "5577567" | "5581630" | "5584025" | "5585205" | "5590062" | "5594318" | "5595271" | "5596258" | "5612606" | "5617319" | "5627752" | "5630103" | "5636145" | "5642270" | "5666102" | "5671342" | "5691695" | "5694019" | "5701706" | "5720363" | "5736833" | "5751245" | "5760569" | "5774133" | "5778326" | "5790976" | "5793028" | "5794207" | "5805719" | "5805810" | "5819269" | "5826244" | "5826245" | "5831664" | "5835896" | "5838812" | "5852810" | "5870723" | "5883810" | "5892598" | "5903721" | "5904214" | "5905499" | "5907322" | "5916285" | "5917407" | "5926765" | "5930474" | "5937413" | "5940806" | "5974136" | "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842"				

		| "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407"				

		| "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524"				

		| "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048"					

		| "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741"					

		| "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.				
L442	3627	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L443	1898	(vehicle truck car automobile) AND (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/04/05 02:05 PM

		driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	JPO; DERWENT; IBM_TDB)				
L444	111	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L445	14	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L446	107	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L447	83	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L448	1273993	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L449	45	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L450	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM

L451	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L452	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L453	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L454	97	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L455	222	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L456	40	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L457	53016	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L458	62	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L459	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L460	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L461	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L462	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		account) and (profile account) near10 vehicle near10 (settings preferences)					
L463	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L464	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L465	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L466	97	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L467	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L468	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L469	1789	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

		"20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570" | "20040122693" | "20040128215" | "20040135805" | "20040138790" | "20040139034" | "20040139049" | "20040145593" | "20040146199" | "20040148275" | "20040148354" | "20040153466" | "20040157648" | "20040158371" | "20040158373" | "20040158488" | "20040162064"				

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L470	1437	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		"20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098"				

		"20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965"				

		"20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN.				

		OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" |					

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L471	482	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L472	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L473	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L474	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L475	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L476	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L477	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L478	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L479	97	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L480	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L481	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L482	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L483	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L484	139719	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM

		G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L485	222	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L486	9	L40 and L37	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L487	100	L40 and L39	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L488	34	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L489	106	((transfer$4 sending	(USPAT)	OR	ON	ON	2024/04/05

		sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					02:05 PM
L490	10390	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L491	758	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L492	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		(position setting)) and (user driver customer profile) near4 (verify verification identifier)					
L493	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L494	42106	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L495	45994	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L496	68888	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L497	12453	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L498	58718	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L499	1919	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L500	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L501	1140	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L502	6159	(vehicle truck car automobile) same2	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/04/05 02:05 PM

		(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	JPO; DERWENT; IBM_TDB)				
L503	7051	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L504	2073	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L505	127	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L506	2253	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L507	209	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.					
L508	70	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L509	901	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L510	564	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L511	57	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.					
L512	2652	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L513	1759	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L514	413	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L515	124	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L516	323	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L517	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L518	451	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2024/04/05

		automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:05 PM
L519	2787	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

		"20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" |				

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		| "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862"				

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		| "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371"				

		| "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" |				

		"2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L520	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L521	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L522	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L523	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L524	97	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L525	222	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L526	40	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L527	53016	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L528	62	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L529	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		near10 (settings preferences)).clm.					
L530	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L531	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L532	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L533	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L534	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L535	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L536	97	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L537	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L538	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L539	1789	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

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		"20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300"				

		"20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107"				

		"20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745"				

		"6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037"					

		| "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L541	482	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L542	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L543	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L544	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L545	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L546	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L547	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L548	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L549	97	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L550	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L551	1	("20110060480").PN.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/04/05

			USOCR)				02:05 PM
L552	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L553	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L554	139719	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L555	222	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L556	9	L40 and L37	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L557	100	L40 and L39	(USPAT)	OR	ON	ON	2024/04/05

							02:05 PM
L558	34	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L559	106	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L560	10390	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L561	758	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L562	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L563	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L564	42106	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L565	45994	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L566	68888	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L567	12453	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L568	58718	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L569	1919	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L570	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L571	1140	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2024/04/05

		automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:05 PM
L572	6159	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L573	7051	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L574	2073	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L575	127	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L576	2253	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L577	209	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L578	70	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L579	901	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L580	564	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L581	57	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L582	2652	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L583	1759	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L584	413	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L585	124	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L586	323	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L587	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L588	451	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L589	2787	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

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		| "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879"					

		| "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702"				

		| "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744"				

		| "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143"				

		| "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L590	3627	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L591	1898	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		reclin$4))					
L592	111	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L593	14	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L594	107	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L595	83	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		reclin$4)) Near10 (vehicle truck car automobile)					
L596	1273993	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L597	45	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L598	22	((US-20140309862-A1 OR US-20120087634-A1 OR US-20140310031-A1 OR US-20150203125-A1 OR US-20140310788-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((EP-908339-A1 OR US-20140310788-A1).did. AND DWPI.dbnm.) OR ((US-6155954-A OR US-8768313-B2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		US-8463488-B1 OR US-8209436-B2 OR US-9684911-B2 OR US-9229905-B1 OR US-9373149-B2 OR US-7006986-B1 OR US-9372607-B1 OR US-9171268-B1 OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.)					
L599	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L600	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L601	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L602	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L603	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L604	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L605	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L606	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L607	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L608	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near10 (settings preferences)).clm.					
L609	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L610	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L611	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L612	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L613	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L614	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L615	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L616	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L617	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L618	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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L619	1453	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		"20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300"				

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		"6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037"					

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L620	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L621	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L622	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L623	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L624	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L625	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L626	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L627	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L628	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L629	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L630	1	("20110060480").PN.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/08/14

			USOCR)				11:28 AM
L631	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L632	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L633	143313	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L634	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L635	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L636	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14

							11:28 AM
L637	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L638	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L639	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L640	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L641	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L642	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L643	43299	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L644	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L645	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L646	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L647	60429	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L648	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L649	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L650	1169	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

		automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L651	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L652	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L653	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L654	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L655	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L656	216	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L657	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L658	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L659	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L660	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L661	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L662	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L663	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L664	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L665	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L666	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L667	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L668	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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		| "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879"				

		| "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702"				

		| "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744"				

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		| "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L669	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L670	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L671	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L672	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L673	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L674	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L675	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L676	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		vehicle near10 (settings preferences)).clm.					
L677	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L678	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L679	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L680	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L681	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L682	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L683	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		preferences)					
L684	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L685	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L686	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L687	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L688	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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L689	1453	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		"20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349"				

		"20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" |				

		"20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624"				

		"5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420"					

		| "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L690	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L691	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L692	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L693	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L694	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L695	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L696	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L697	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L698	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L699	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L700	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L701	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L702	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L703	143313	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

L704	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L705	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L706	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L707	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L708	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L709	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L710	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L711	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L712	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L713	43299	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L714	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L715	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L716	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L717	60429	(transfer$4 sending	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

		sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L718	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L719	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L720	1169	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L721	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L722	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L723	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L724	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L725	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L726	216	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L727	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L728	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L729	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L730	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L731	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		volume (seat chair) near2 (position setting reclin$4))					
L732	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L733	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L734	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L735	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		volume (seat chair) near2 (position setting reclin$4))					
L736	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L737	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near2 (position setting reclin$4))					
L738	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030204290" | "20030205619" | "20030218253" | "20030220807" | "20030220835").PN. OR ("20030222918" | "20030225632" | "20030225833" | "20030234325" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581" | "20040044454" | "20040046506" | "20040054428" | "20040054561" | "20040056762" | "20040059471" | "20040064235" | "20040078655"				

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		| "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635"				

		| "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541"				

		| "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109"				

			"7996270" | "8006793" "8010230" | "8027843" "8027943" | "8036788" "8046309" | "8050815" "8051089" | "8054048" "8060389" | "8060555" "8064590" | "8065291" "8072318" | "8073907" "8095430" | "8103391" "8103734" | "8107879" "8108501" | "8112419" "8117486" | "8136145" "8139514" | "8145661" "8145703" | "8149113" "8167234" | "8171128" "8190357" | "8190476" "8195601" | "8195744" "8204624" | "8204776" "8204952" | "8223012" "8225376" | "8229160" "8229470" | "8249943" "8256553" | "8262268" "8265816" | "8266075" "8271057").PN. OR ("8275546" | "8290943" "8292215" | "8294420" "8296373" | "8301743" "8315389" | "8326091" "8326315" | "8328130" "8333492" | "8336664" "8346677" | "8350526" "8352183" | "8358811" "8364757" | "8366371" "8370003" | "8370030" "8380382" | "8380638" "8391789" | "8391909" "8392065" | "8401771" "8402094" | "8402372" "8405347" | "8412576" "8412675" | "8422994" "8427308" | "8428565" "8433609" | "8433650" "8438156" | "8442923" "8443107" | "8447810" "8463295" | "8463764" "8473199" | "8482255" "8483775" | "8483907" "8490005" | "8493849" "8504284" | "8504512" "8508188" | "8510268" "8521599" | "8521656" "8527135" | "8527146" "8538458" | "8543143" "8543323" | "8548493" "8552686" | "8554770" "8554852" | "8560515" "8584091" | "8589019" "8589330" | "8594715"				

		| "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.				
L739	3730	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		volume (seat chair) near2 (position setting reclin$4))					
L740	1961	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L741	112	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L742	14	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L743	108	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)					
L744	84	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L745	1294444	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L746	45	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L747	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L748	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L749	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L750	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L751	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L752	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L753	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L754	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L755	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L756	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L757	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L758	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L759	104	vehicle near10 (biometric face fingerprint voice)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/08/14 11:28 AM

		near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	IBM_TDB)				
L760	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L761	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L762	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L763	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L764	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L765	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		account) near10 vehicle near10 (settings preferences)).clm.					
L766	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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L767	1453	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		"20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903"				

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		"20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192"				

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L768	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L769	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L770	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L771	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L772	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L773	212768	(Y02T90/121 or	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

		Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L774	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L775	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L776	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L777	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L778	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L779	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L780	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L781	143313	(B60L53/665 or H04W4/02 or H04W4/029 or	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

		B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L782	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L783	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L784	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L785	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

		air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L786	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L787	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L788	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L789	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)					
L790	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L791	43299	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L792	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		identifier)					
L793	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L794	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L795	60429	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L796	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L797	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L798	1169	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		driver customer profile) near4 (verify verification identifier)					
L799	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L800	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L801	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L802	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L803	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L804	216	((vehicle truck car automobile) and (transfer$4 sending	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/08/14 11:28 AM

		sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	IBM_TDB)				
L805	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L806	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L807	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L808	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.					
L809	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L810	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L811	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L812	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L813	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L814	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		volume (seat chair) near2 (position setting reclin$4))).clm.					
L815	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L816	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" |				

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		| "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409"				

		| "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092"				

		| "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130"				

		| "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR				

		("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L817	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L818	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L819	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L820	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L821	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L822	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L823	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L824	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L825	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L826	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L827	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L828	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L829	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L830	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L831	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L832	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L833	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L834	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L835	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L836	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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		| "8832556" | "D710454").PN. OR ("2014/0309862" | "2014/0310031" | "2014/0310788" | "7006986" | "8050815" | "9373149").URPN.					
L837	1453	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		"20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252"				

		"20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" |				

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		"5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328"					

		| "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L838	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L839	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L840	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L841	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L842	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L843	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L844	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L845	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L846	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L847	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		account) near10 vehicle near10 (settings preferences)).clm.					
L848	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L849	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L850	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L851	143313	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L852	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

		(position setting))					
L853	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L854	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L855	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L856	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L857	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L858	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L859	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L860	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L861	43299	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L862	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L863	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L864	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L865	60429	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L866	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L867	15	L52 and L37	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L868	1169	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L869	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L870	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L871	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L872	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L873	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L874	216	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L875	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L876	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L877	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L878	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L879	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L880	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L881	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L882	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L883	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L884	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L885	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L886	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705"				

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		"20050137015" | "20050143174").PN. OR ("20050144065" | "20050149432" | "20050154639" | "20050159970" | "20050171799" | "20050171832" | "20050171954" | "20050171955" | "20050177385" | "20050187823" | "20050192859" | "20050192912" | "20050192999" | "20050193410" | "20050197775" | "20050197846" | "20050197950" | "20050198020" | "20050198031" | "20050198305" | "20050203768" | "20050203769" | "20050203807" | "20050209776" | "20050209781" | "20050216186" | "20050216300" | "20050216550" | "20050219044" | "20050225429" | "20050231119" | "20050235062" | "20050240580" | "20050251331" | "20050256756" | "20050259648" | "20050261815" | "20050270299" | "20050273346" | "20050283497" | "20050288957" | "20050288958" | "20050289650" | "20060001523" | "20060004680" | "20060004703" | "20060004734" | "20060022048" | "20060023881" | "20060025883" | "20060026147" | "20060026587" | "20060031684" | "20060036588" | "20060036748" | "20060041543" |				

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		"20080117928" | "20080120308" | "20080125969" | "20080126355" | "20080126411" | "20080126476" | "20080126478" | "20080133495" | "20080133649" | "20080134035" | "20080148156" | "20080154733" | "20080155008" | "20080155019" | "20080162027" | "20080162211" | "20080162260" | "20080167771" | "20080168068" | "20080168175" | "20080172173" | "20080172244" | "20080172288" | "20080180027" | "20080189292" | "20080189380" | "20080189768" | "20080195483" | "20080201156" | "20080203973" | "20080208956" | "20080208969" | "20080215758" | "20080215994" | "20080221846" | "20080221984" | "20080222140" | "20080222308" | "20080223646" | "20080228613" | "20080228719" | "20080228775" | "20080229424" | "20080231630" | "20080238941" | "20080240397" | "20080242317" | "20080243378" | "20080243598" | "20080243667" | "20080243830" | "20080244060" | "20080250025" | "20080255722" | "20080255759" | "20080256230" | "20080263460" | "20080269979" |				

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		| "4815840" | "4914605" | "4996468" | "5006988" | "5032989" | "5049802" | "5050844" | "5121112" | "5132666" | "5184058" | "5199686" | "5202617" | "5208750" | "5297664" | "5306999" | "5315227" | "5325294" | "5327066" | "5343970" | "5372211" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5521817" | "5548200" | "5549443" | "5555502" | "5563491" | "5572449" | "5577567" | "5581630" | "5584025" | "5585205" | "5590062" | "5594318" | "5595271" | "5596258" | "5612606" | "5617319" | "5627752" | "5630103" | "5636145" | "5642270" | "5666102" | "5671342" | "5691695" | "5694019" | "5701706" | "5720363" | "5736833" | "5751245" | "5760569" | "5774133" | "5778326" | "5790976" | "5793028" | "5794207" | "5805719" | "5805810" | "5819269" | "5826244" | "5826245" | "5831664" | "5835896" | "5838812" | "5852810" | "5870723" | "5883810" | "5892598" | "5903721" | "5904214" | "5905499" | "5907322" | "5916285" | "5917407" | "5926765" | "5930474" | "5937413" | "5940806" | "5974136" | "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486"				

		| "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368"				

		| "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557"				

		| "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661"				

		| "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328"					

		| "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L887	3730	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L888	1961	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L889	112	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L890	14	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L891	108	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L892	84	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)					
L893	1294444	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L894	45	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L895	22	((US-20140309862-A1 OR US-20120087634-A1 OR US-20140310031-A1 OR US-20150203125-A1 OR US-20140310788-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((EP-908339-A1 OR US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		20140310788-A1).did. AND DWPI.dbnm.) OR ((US-6155954-A OR US-8768313-B2 OR US-8463488-B1 OR US-8209436-B2 OR US-9684911-B2 OR US-9229905-B1 OR US-9373149-B2 OR US-7006986-B1 OR US-9372607-B1 OR US-9171268-B1 OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.)					
L896	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L897	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L898	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L899	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L900	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L901	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L902	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L903	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L904	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L905	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L906	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L907	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L908	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L909	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L910	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L911	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L912	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L913	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L914	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L915	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762"					

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L916	1453	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		"20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252"				

		"20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015"				

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		"5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328"				

		| "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L917	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L918	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L919	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L920	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L921	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L922	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L923	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L924	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L925	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L926	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		account) near10 vehicle near10 (settings preferences)).clm.					
L927	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L928	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L929	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L930	143313	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L931	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

		(position setting))					
L932	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L933	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L934	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L935	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L936	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L937	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L938	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L939	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L940	43299	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L941	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L942	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L943	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L944	60429	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L945	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L946	15	L52 and L37	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L947	1169	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L948	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L949	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L950	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L951	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L952	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L953	216	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L954	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L955	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L956	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L957	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L958	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L959	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L960	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L961	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L962	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L963	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L964	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L965	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" |				

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		| "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368"				

		| "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557"				

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L966	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L967	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L968	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L969	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L970	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L971	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L972	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L973	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		(user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L974	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L975	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L976	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L977	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L978	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L979	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L980	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		(verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)					
L981	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L982	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L983	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L984	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L985	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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L986	1453	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		"20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643"				

		"20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" |				

		"20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666"				

		"5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815"					

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L987	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L988	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L989	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L990	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L991	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L992	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L993	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L994	57	L31 and (L29 L30) not	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

		L28	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L995	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L996	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L997	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L998	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L999	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1000	143313	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

		Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L1001	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1002	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1003	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1004	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1005	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1006	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L1007	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1008	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1009	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1010	43299	(transfer$4 sending	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

		sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L1011	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1012	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1013	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		identifier)					
L1014	60429	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1015	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1016	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1017	1169	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1018	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1019	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near4 (verify verification identifier)					
L1020	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1021	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1022	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1023	216	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1024	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near3 (verify verification identifier)).ab.					
L1025	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1026	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1027	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1028	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1029	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1030	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1031	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1032	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1033	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1034	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1035	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030204290" | "20030205619" | "20030218253" | "20030220807" | "20030220835").PN. OR ("20030222918" | "20030225632" | "20030225833" | "20030234325" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581" | "20040044454" | "20040046506" | "20040054428" | "20040054561" | "20040056762"				

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		| "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114"				

		| "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251"				

		| "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657"					

		| "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770"				

		| "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.				
L1036	3730	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1037	1961	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1038	112	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1039	14	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1040	108	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)					
L1041	84	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1042	1294444	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1043	45	L151 AND L149	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L1044	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L1045	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1046	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1047	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/08/14 11:28 AM

		Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	IBM_TDB)				
L1048	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1049	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1050	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1051	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1052	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1053	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1054	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1055	1	("8050815").PN.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/08/14

			USOCR)				11:28 AM
L1056	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1057	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1058	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1059	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1060	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1061	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1062	16	(vehicle near10 (biometric face fingerprint voice)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/08/14 11:28 AM

		near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	IBM_TDB)				
L1063	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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L1193	50	(Artificial Intelligence) Similar to: 17/873,096 with 0 CPC Selections and 0 Text Selections Text: (US-20230077434-A1 OR US-11396244-B2 OR US-20200186590-A1 OR US-10652312-B2 OR US-20190190980-A1 OR US-9229905-B1 OR US-20160173568-A1 OR US-10218771-B2 OR US-9171268-B1 OR US-10554759-B2 OR US-20190199800-A1 OR US-10225350-B2 OR US-20160198002-A1 OR US-20160359980-A1 OR US-9288270-B1 OR US-9104537-B1 OR US-9426225-B2 OR US-9365188-B1 OR US-20160080500-A1 OR US-20160318481-A1 OR US-9215274-B2 OR US-11738659-B2 OR US-20210394637-A1 OR US-11104245-B2 OR US-20200047714-A1 OR US-9663067-B2 OR US-20180134254-A1 OR US-20240171948-A1 OR US-20150304406-A1 OR US-9139091-B1 OR US-20160214535-A1 OR US-10286842-B2 OR US-9697503-B1 OR US-20170267214-A1 OR US-10407026-B2 OR US-11889394-B2 OR US-10071643-B2 OR US-9809196-B1 OR US-9467515-B1 OR US-9229623-B1 OR JP-2013039029-A OR US-9285944-B1 OR US-20170320398-A1 OR US-9802500-B1 OR US-20190196851-A1 OR US-20230202413-A1 OR US-10223134-B1 OR US-11734026-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO))	OR	ON	ON	2024/08/14 12:00 PM

		B2 OR CN-111907529-A OR US-10286798-B1).did.					
L1194	50	(Artificial Intelligence) Similar to: 17/873,096 with 0 CPC Selections and 1 Text Selection Text: (US-9229905-B1 OR DE-102013020306-A1 OR US-10246102-B2 OR US-6675082-B2 OR EP-3501886-B1 OR US-20030204296-A1 OR EP-3501886-A1 OR US-20140194056-A1 OR US-20200186590-A1 OR US-20240008111-A1 OR US-20180265094-A1 OR US-20200245144-A1 OR US-20230077434-A1 OR US-11148658-B2 OR US-11396244-B2 OR US-20160104486-A1 OR US-10210487-B2 OR US-10652312-B2 OR US-20190190980-A1 OR US-20110137520-A1 OR US-9493130-B2 OR US-20140309866-A1 OR WO-2014172316-A1 OR US-11818538-B2 OR US-20210127438-A1 OR US-11546954-B2 OR US-20210204057-A1 OR US-10912135-B2 OR US-20200037379-A1 OR US-20240171948-A1 OR US-20230389095-A1 OR CN-113052648-A OR US-20210173532-A1 OR US-20190077346-A1 OR US-20220024446-A1 OR EP-3842937-B1 OR US-20180089912-A1 OR US-11889394-B2 OR US-20200391755-A1 OR US-10829068-B2 OR US-11358603-B2 OR US-6665600-B2	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO))	OR	ON	ON	2024/08/14 12:00 PM

		OR US-11794676-B1 OR US-20180188064-A1 OR US-20030195686-A1 OR DE-102018122188-A1 OR WO-2024010669-A1 OR WO-2013130036-A1 OR US-7477970-B2 OR US-8706349-B2).did.					
L1195	94079	(server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 12:26 PM
L1196	28401	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 12:28 PM
L1197	50029	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 12:29 PM

		preference radio temperature seat near2 (position posture) entertainment customiz$4)					
L1198	2096	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 12:30 PM
L1199	2207	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 12:31 PM
L1200	1689	(Verif$8 access$4 authenticat$4) WITH (user driver passenger rider) WITH (profile) WITH (vehicle autombile truck lorrey lorey car aircraft	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/08/14 12:34 PM

		airplane aeroplane) AND (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane)	IBM_TDB)				
L1201	2538723	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR B60L53/67 OR B60L2240/68 OR B60L2240/72 OR B60L2240/80 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 03:24 PM

		B60W40/09 OR B60W2540/043 OR B60W2556/10 OR G06Q20/145 OR G06Q20/308 OR G08G1/205 OR H04L63/0861 OR H04W4/80 OR H04W12/06 OR H04W12/50).cpc.					
L1202	926	L1200 AND L1201	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 03:24 PM
L1203	25	((US-20140310031-A1 OR US-20140310788-A1 OR US-20150203125-A1 OR US-20140309862-A1 OR US-20120087634-A1 OR US-20090204316-A1 OR US-20090150167-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20090144622-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((US-9171268-B1 OR US-9372607-B1 OR US-7006986-B1 OR US-9373149-B2 OR US-9229905-B1 OR US-9684911-B2 OR US-8209436-B2 OR US-8463488-B1 OR US-8768313-B2 OR US-6155954-A OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.) OR ((US-20140310788-A1 OR EP-908339-A1).did. AND DWPI.dbnm.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 03:27 PM
L1204	3015	("5917407" | "6061660" | "20030149617" | "20040054561" | "20060116132" | "20070239627" | "20090144151" | "20090258642" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 03:28 PM

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PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N24	9	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2019/09/28 07:08 PM
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		temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
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N77	154	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 08:25 PM
N78	46	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 08:34 PM

N79	672	(vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 08:38 PM
N80	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 10:15 PM
N81	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 10:16 PM

		teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
N82	314	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 10:16 PM
N83	8	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT)	OR	ON	ON	2021/11/15 06:45 PM

		reclin$4)) WITH (vehicle truck car automobile)).clm.					
N84	58	((Verif$8 access$4 authenticat$4) WITH (user driver passenger rider) WITH (profile) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane) AND (server remote cloud intemet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/08/14 03:27 PM

Search History

Report Run Date: 2024-08-14 UTC
Searches: 1
Markers: 0

Search #	Timestamp	Results	Page
1	2024-08-14 14:46 UTC	39,936,148	3

Content: Patent Publications (169)

US Patents | US Designs | US Applications | EPO Patents | EPO Applications | China Patents | China Applications | Japan Patents | Japan Applications | Korea Patents | Korea Applications | WIPO Applications | Argentina Patents | Argentina Applications | Brazil Patents | Brazil Applications | Canada Patents | Canada Applications | Chile Patents | Chile Applications | Colombia Applications | Costa Rica Applications | Cuba Patents | Cuba Applications | Dominican Republic Applications | Ecuador Patents | Ecuador Applications | El Salvador Applications | Guatemala Applications | Honduras Applications | Mexico Patents | Mexico Applications | Nicaragua Patents | Panama Applications | Peru Applications | Trinidad & Tobago Patents | Uruguay Applications | Austria Patents | Austria Applications | Belarus Patents | Belgium Patents | Belgium Applications | Bosnia & Herzegovina Patents | Bosnia & Herzegovina Applications | Bulgaria Patents | Bulgaria Applications | Croatia Patents | Croatia Applications | Czech Republic Patents | Czech Republic Applications | Czechoslovakia Patents | Czechoslovakia Applications | Denmark Patents | Denmark Applications | Estonia Patents | Estonia Applications | EUIPO Patents | Finland Patents | Finland Applications | France Patents | France Applications | Germany Patents | Germany Applications | Great Britain Patents | Great Britain Applications | Greece Patents | Greece Applications | Hungary Patents | Hungary Applications | Iceland Patents | Iceland Applications | Ireland Patents | Ireland Applications | Italy Patents | Italy Applications | Latvia Patents | Latvia Applications | Lithuania Patents | Lithuania Applications | Luxembourg Patents | Luxembourg Applications | Malta Patents | Monaco Patents | Montenegro Patents | Montenegro Applications | Netherlands Patents | Netherlands Applications | Norway Patents | Norway Applications | Poland Patents | Poland Applications | Portugal Patents | Portugal Applications | Republic of Moldova Patents | Republic of Moldova Applications | Romania Patents | Romania Applications | San Marino Patents | San Marino Applications | Serbia Patents | Serbia Applications | Slovakia Patents | Slovakia Applications | Slovenia Patents | Spain Patents | Spain Applications | Sweden Patents | Sweden Applications | Switzerland Patents | Switzerland Applications | Ukraine Patents | Yugoslavia/Serbia and Montenegro Patents | Yugoslavia/Serbia and Montenegro Applications | Armenia Patents | Australia Patents | Australia Applications | Cyprus Patents | Gulf Cooperation Council Patents | Hong Kong Patents | India Patents | India Applications | Indonesia Patents | Indonesia Applications | Israel Patents | Israel Applications | Jordan Patents | Jordan Applications | Kyrgyzstan Patents | Macao Applications | Malaysia Patents | Mongolia Patents | New Zealand Patents | Philippines Patents | Philippines Applications | Saudi Arabia Patents | Saudi Arabia Applications | Singapore Patents | Singapore Applications | Taiwan Patents | Taiwan Applications | Tajikistan Patents | Tajikistan Applications | Thailand Patents | Thailand Applications | Uzbekistan Patents | Vietnam Patents | Algeria Patents | ARIPO Patents | ARIPO Applications | Egypt Patents | Kenya Patents | Malawi Patents | Morocco Patents | Morocco Applications | OAPI Patents | South Africa Patents | Tunisia Applications | Zambia Patents | Zimbabwe Patents | EAPO Patents | EAPO Applications | Georgia Patents | Georgia Applications | Kazakhstan Patents | Kazakhstan Applications | Russia Patents | Russia Applications | Turkey Patents | Turkey Applications

1 **2024-08-14 14:46 UTC | 39,936,148 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text

A cloud-based system including one or more data centers, and each data center of the cloud-based system includes one or more servers, wherein some of said one or more servers have program instructions for enabling connections with vehicles and providing services to vehicles, wherein one service includes enabling access to settings associated with profiles of user accounts of the cloud-based system, comprising: a server for receiving a request from a vehicle to access a profile for a user account, the request identifies user information related to a user; a server for processing at least part of the user information to verify the access, the profile having a plurality of settings of the user for the vehicle, at least part of the plurality of settings of the profile being stored on storage accessible to said one or more servers; and a server for transferring, upon verification of the user information, one or more settings of the plurality of settings to the vehicle, the transferring is configured to instruct software and hardware associated the vehicle to enable said one or more settings one the vehicle for customizing said vehicle for the user, the request and the

transferring being via wireless communication of said vehicle.

Concept Modifiers: None

Filters: None

Bibliographic Data

Application No: 17/873,096

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /FREDERICK M BRUSHABER/ (Examiner's Signature) ____ (Initials)

Title: SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/25/2022	709	3665	VOLTP018.5.1.C4
RULE			

APPLICANTS

Emerging Automotive, LLC, Los Altos, CA,

INVENTORS

Angel A. Penilla, Sacramento, CA, UNITED STATES

Albert S. Penilla, Santa Cruz, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 16788253 02/11/2020 PAT 11396244

16788253 is a CON of 16285706 02/26/2019 PAT 10652312

16285706 is a CON of 14987755 01/04/2016 PAT 10218771

14987755 is a CON of 13842158 03/15/2013 PAT 9229905

13842158 has PRO of 61745729 12/24/2012

16285706 is a CIP of 13452881 04/22/2012 PAT 10217160

13452881 has PRO of 61478436 04/22/2011

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

12/06/2022

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

ADDRESS

PENILLA IP, APC - PATENT LAW

5619 Scotts Valley Drive

SUITE 280

Scotts Valley, CA 95066
UNITED STATES

FILING FEE RECEIVED

$830

TO: pipdocket@penillaip.com,efrain@penillaip.com
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - Correspondence Notification for Customer Number 25920

Mon Aug 19 05:01:19 EDT 2024

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Correspondence Address:

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UNITED STATES

This is a courtesy notification regarding the following USPTO patent application(s) associated with your Customer Number, 25920, that have new outgoing correspondence. This correspondence is now available for viewing in Patent Center.

The official date of notification of the outgoing correspondence will be indicated on the form (e.g., PTOL-90) accompanying the correspondence.

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Application	Document	Mailroom Date	Attorney Docket No.
17873096	CTNF	08/19/2024	VOLTP018.5.1.C4
17873096	892	08/19/2024	VOLTP018.5.1.C4

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Sincerely,

The Patent Center Team

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	17/873,096
				Filing Date	July 25, 2022
				First Named Inventor	Angel Penilla
				Art Unit	
				Examiner Name	Frederick M. Brushaber
				Attorney Docket Number	VOLTP018.5.1.C4

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Examiner Initials	Publication Date	Reference	Name of Patentee or Applicant	Cite No.
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	7/4/2002	US20020085043	Amnon Ribak	2
	9/19/2002	US20020133273	Larkin Lowrey et al.	3
	7/24/2003	US20030137277	Iichiro Mori et al.	4
	8/14/2003	US20030153278	William Johnson	5
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	5/13/2004	US20040092253	Craig Simonds et al.	10
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				Art Unit	
				Examiner Name	Frederick M. Brushaber
				Attorney Docket Number	VOLTP018.5.1.C4

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				Application Number	17/873,096
				Filing Date	July 25, 2022
				First Named Inventor	Angel Penilla
				Art Unit	
				Examiner Name	Frederick M. Brushaber
				Attorney Docket Number	VOLTP018.5.1.C4

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				Attorney Docket Number	VOLTP018.5.1.C4

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APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/873,096	**11/21/2024 06:23:56 PM Z ET**	**VOLTP018.5.1.C4**

Title of Invention

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1006	FILED BY	Albert Penilla
PATENT CENTER #	68068989	AUTHORIZED BY	-
CUSTOMER #	25920	FILING DATE	07/25/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Angel A. Penilla

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 500805	**E2024AKI24188926**	**Albert Penilla**

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Angel A. Penilla Application No: 17/873,096 Filed: July 25, 2022 SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES	Group Art Unit: 3665 Examiner: Frederick M. Brushaber Atty. Docket No: VOLTP018.5.1.C4 Date: Nov. 21, 2024 Confirmation No.: 1006

CERTIFICATE OF E-Filing

I hereby certify that this correspondence is being transmitted to the United States Patent and Trademark Office via electronic filing with EFS-Web on **Nov. 21, 2024.**

/Albert Penilla/

Signed: _____

Albert Penilla

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.56 AND 1.97(e)

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Dear Sir:

The references listed in the attached PTO Form 1449, may be material to examination of the above-identified patent application. Applicant submits these references in compliance with his duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement (IDS) is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is being filed after the first Office action on the merits. Accordingly, a fee is being paid electronically for the filing of this Information Disclosure Statement. If it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-0805 (Order No. VOLTP018.5.1.C4)

Respectfully submitted,

PENILLA IP, APC
/Albert Penilla/
Albert S. Penilla, Esq.
Reg. No. 39,487

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CUSTOMER #	25920	FIRST NAMED INVENTOR	Angel A. Penilla
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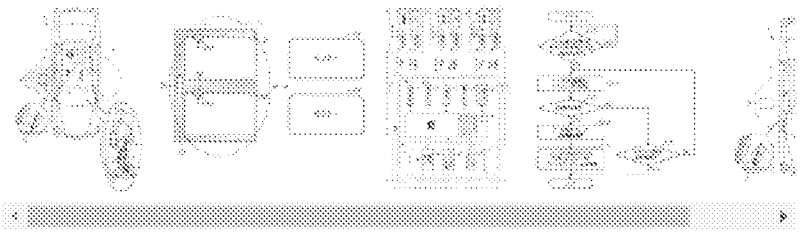
Patents jp2009293283

Electronic key system of vehicle

Abstract

<P>PROBLEM TO BE SOLVED: To provide an electronic key system of a vehicle which can maintain the security level high even when a plurality of electronic keys are provided. <P>SOLUTION: The electronic key 20 of the electronic key system which is used for performing wireless communication with the vehicle 10 consists of a master key 21 and subkeys 22, 23, and performs unlocking of a vehicle door through a door lock mechanism 15 based on the authentication of the master key 21 and the subkeys 22, 23 through wireless communication. Then the system can prohibit the execution of unlocking of the vehicle door based on the authentication of the subkeys 22, 23 by the operation of a car navigation apparatus 40 by the owner of the vehicle 10 in a state where the owner of the vehicle 10 has the master key 21. In this case, a case 30 used for storing the subkeys 22, 23 is provided to the vehicle 10, and the execution of the unlocking of the vehicle door based on the authentication of the subkeys 22, 23 is forcefully prohibited when the subkeys 22, 23 have been stored in the case 30. <P>COPYRIGHT: (C)2010,JPO&INPIT

Images (5)



Landscapes

Lock And Its Accessories

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Other languages: Japanese

Inventor: Hironori Mimura, 裕紀 三村, Yuki Oshima, 優季 大島, Akitoshi Iwashita, 明俊 岩下

Current Assignee : Tokai Rika Co Ltd

Worldwide applications

2008 JP

Application JP2008148122A events

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2009-12-17	Publication of JP2009293283A
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Info: Cited by (6), Legal events, Similar documents, Priority and Related Applications

External links: Espacenet, Global Dossier, Discuss

Claims (3)

Hide Dependent

translated from Japanese

Various processes related to vehicle control are executed by performing authentication of the electronic key through wireless communication between the vehicle and a plurality of electronic keys, and the plurality of electronic keys performs various processes related to the vehicle control. A master key that can be collectively executed, and a sub key that can limit the execution of various processes relating to the vehicle control, and based on a predetermined operation on the in-vehicle device, An electronic key system for a vehicle in which execution of various processes related to vehicle control is restricted and the restriction is released,

The vehicle is provided with a housing portion for housing the subkey, and when the subkey is housed in the housing portion, execution of various processes related to the vehicle control based on the authentication of the subkey is forcibly restricted. An electronic key system for a vehicle. The master key and the sub key have different identification codes, respectively, and the vehicle has an identification code database in which the identification codes of the master key and the sub key are respectively registered. The master key and the sub key are identified through the wireless communication. The master key and the subkey are authenticated by collating the code with the identification code registered in the identification code database, and when it is detected that the subkey is stored in the storage unit, the master key and the subkey are stored in the storage unit. An identification code of the subkey is detected through wireless communication with the detected subkey, and execution of the various processes related to the vehicle control based on authentication of the subkey having the detected identification code is forcibly limited. 2. An electronic key system for a vehicle according to 1. Based on a predetermined operation on the in-vehicle device, the identification code of the subkey is set to be valid / invalid, and the vehicle is a subkey having an identification code in which the subkey authenticated through the wireless communication is invalidated. When it is determined that there is, the process for restricting various controls related to the vehicle control is executed, and an identification code detected through wireless communication between the

sub key accommodated in the accommodation unit and the vehicle is obtained. 3. The vehicle electronics according to claim 2, wherein the forcible restriction of the execution of the various processes related to the vehicle control based on the authentication of the subkeys is performed by executing a process of invalidating the detected identification code. Key system.

Description

translated from Japanese

The present invention relates to an electronic key system for a vehicle that performs various controls of the vehicle through wireless communication between the vehicle and the electronic key, and more particularly to an electronic key system for a vehicle that includes a plurality of electronic keys.

When the vehicle owner carrying the electronic key (portable device) approaches the vehicle door, the vehicle door is automatically unlocked, and when the vehicle owner enters the vehicle interior, the engine is allowed to start. So-called electronic key systems are well known. Conventionally, as such an electronic key system, for example, a system described in Patent Document 1 is known. FIG. 5 shows an outline of an electronic key system that is generally employed in the past, including the system described in Patent Document 1.

As shown in FIG. 5, in this electronic key system, for example, a request signal is transmitted from the outdoor transmitter 11 provided in the vehicle door to the communicable area A set around the vehicle door, and in the vehicle interior. A request signal is transmitted from the provided indoor transmission device 12 to the communicable area B set in the passenger compartment. In this electronic key system, the request signal transmitted from the outdoor transmitter 11 and the indoor transmitter 12 is received, and a response signal including information such as an identification code (ID code) is received with respect to the received request signal. The owner of the vehicle 10 possesses the electronic key 20 to be transmitted. That is, when the vehicle owner having the electronic key 20 enters the communicable area A or the communicable area B, a response signal is transmitted from the electronic key 20. In this system, the response signal transmitted from the electronic key 20 is received by the receiving device 13 provided in the vehicle compartment and transmitted to the vehicle-side control device 14 that executes various controls on the vehicle 10. The control device 14 collates the ID code of the electronic key 20 included in the received response signal with the ID code stored in the memory in the control device 14 in advance. When the authentication is performed, vehicle control such as unlocking the door lock mechanism 15 provided on the vehicle door or permitting the engine to start is executed. According to such an electronic key system, since various operations of the vehicle 10 are automatically performed without direct manual operation of the vehicle owner, the convenience of operation of the vehicle 10 is greatly improved. become.

On the other hand, in such an electronic key system, the electronic key 20 is used mainly for a master key used by the vehicle owner and for the purpose of lending to a person other than the vehicle owner, for example, instead of the master key. There are two types of electronic keys, which are sub-keys that are used supplementarily. Here, in such an electronic key system, in general, the master key is located in the communicable area B, for example, including the above-described processing related to unlocking the vehicle door and starting permission of the engine. In addition, it has a function as an electronic key that can collectively execute various processes related to vehicle control, such as a process related to permission to use the car navigation device in the passenger compartment. On the other hand, the sub key performs processing related to unlocking the vehicle door and starting the engine, but even if it is located in the communicable area B, processing related to permission to use the car navigation device is not performed. In addition, it has a function as an electronic key with restrictions on the execution of various processes relating to vehicle control. According to such an electronic key system, for example, the vehicle owner lends a subkey to an employee when using a so-called valet parking service that causes the employee to bring the vehicle 10 to a parking lot when using a hotel. In this case, unauthorized use such as operation of the car navigation device without the knowledge of the vehicle owner can be prevented. For this reason, the security level as an electronic key system can be improved.
JP 2001-31333 A

Thus, by providing the electronic key system with two types of electronic keys, the master key and the sub key, the security level as the electronic key system can surely be improved. However, unlike the master key that is always carried by the owner of the vehicle, the sub key may be left in a state where it is housed in a glove box or the like in the passenger compartment, for example. There are concerns such as being used. Therefore, in order to dispel such concerns, for example, after setting different ID codes for the master key and the sub key, the ID code of the sub key is made valid / invalid through the operation of the car navigation device by the vehicle owner. An electronic key system that can be set is considered. That is, according to such an electronic key system, by invalidating the ID code of the subkey, various processes related to vehicle control based on the authentication of the subkey, including processes related to unlocking the vehicle door and starting the engine, are performed. Execution can be completely prohibited. Therefore, the vehicle owner can validate / deactivate the function appropriately according to the usage status of the sub key, such as validating the ID code when renting the sub key and invalidating the ID code when returning the sub key. Thus, unauthorized use of the subkey by a third party as described above can be suitably prevented.

However, since the valid / invalid switching of the ID code of the subkey is due to the operation of the vehicle owner, the vehicle owner forgets the operation of invalidating the ID code when the subkey is returned, for example, and the subkey is left in the glove box as it is. A situation that could be accommodated is also assumed. That is, in such a situation, there is a possibility that unauthorized use of the subkey by the above-mentioned third party cannot be prevented.

As described above, with respect to an electronic key system including a plurality of electronic keys such as a master key and a sub key, there is still room for improvement in order to maintain a high security level.

The present invention has been made in view of such circumstances, and an object of the present invention is to provide a vehicle electronic key system capable of maintaining a high security level even when a plurality of electronic keys are provided. is there.

In order to solve the above-described problem, the invention according to claim 1 executes various processes related to vehicle control by performing authentication of the electronic key through wireless communication between the vehicle and a plurality of electronic keys. The plurality of electronic keys includes a master key that can collectively execute various processes related to the vehicle control, and a sub key that can limit the execution of the various processes related to the vehicle control. An electronic key system for a vehicle in which execution of various processes related to the vehicle control based on authentication of the subkey and release of the restriction are performed based on a predetermined operation on the in-vehicle device, the vehicle includes: A storage unit for storing the subkey is provided, and when the subkey is stored in the storage unit, various types of vehicle control based on the authentication of the subkey are performed. It is summarized in that the physical execution is forcibly limited.

As described above, if an electronic key system is provided with two types of electronic keys, a master key and a sub key, for example, when using a valet parking service, the vehicle owner lends the sub key so that the vehicle owner knows it. Since it is possible to prevent unauthorized use such as operation of the in-vehicle device during the absence, the security level as a system can be improved. Moreover, if the restriction of the execution of various processes related to vehicle control based on the authentication of the subkey and the release of the restriction are performed based on a predetermined operation with respect to the in-vehicle device, the vehicle owner can respond to the usage status of the subkey. As described above, it is possible to appropriately limit the functions of the subkeys and to appropriately prevent unauthorized use of the subkey by a third party. However, if the vehicle owner forgets to perform a predetermined operation on the in-vehicle device when the subkey is returned, the subkey may be left in a state where the function is not limited. There is a possibility that unauthorized use of the subkey by the three parties cannot be prevented. In this regard, according to the same configuration, even when the vehicle owner sometimes forgets to perform a predetermined operation on the in-vehicle device when the subkey is returned, the function is automatically performed when the subkey is accommodated in the accommodating portion. Will be limited. For this reason, unauthorized use of the subkey by the third party can be suitably prevented, and as a result, the security level of the electronic key system can be maintained high.

According to a second aspect of the present invention, in the electronic key system for a vehicle according to the first aspect, the master key and the subkey have different identification codes, respectively, and the vehicle has an identification code for the master key and the subkey. Each having an identification code database registered, authenticating the master key and subkey by collating the identification code of the master key and subkey with the identification code registered in the identification code database through the wireless communication; And when it detects that the said subkey was accommodated in the accommodating part, while detecting the identification code of the said subkey through radio | wireless communication between the subkey accommodated in the accommodating part, it has the detected identification code Force execution of various processes related to vehicle control based on sub-key authentication It is summarized in that the limit.

The security level of the electronic key system can surely be maintained high by forcibly restricting the execution of various processes related to vehicle control based on the authentication of the subkey when the subkey is accommodated in the accommodating portion. It becomes like this. However, if the functions of all subkeys are forcibly restricted when the subkeys are accommodated in the accommodation unit, for example, the functions of the subkeys that are being lent are also forcibly restricted. May cause inconvenience such as sudden failure to use. In this regard, as in the same configuration, the identification code of the subkey accommodated in the accommodating portion is detected, and the execution of various processes related to vehicle control based on the authentication of the subkey having the detected identification code is forcibly restricted. By doing so, it is possible to avoid inconveniences such as the sudden unavailability of the subkey being rented, so that the convenience of the subkey can be maintained as it is.

According to a third aspect of the present invention, in the electronic key system for a vehicle according to the second aspect, the identification code of the subkey is set to be valid / invalid based on a predetermined operation on the in-vehicle device, and the vehicle Performs a process of restricting various controls related to the vehicle control when it is determined that the subkey authenticated through the wireless communication is a subkey having the invalid identification code, Forcibly restricting the execution of the various processes related to the vehicle control based on the authentication of the subkey having the identification code detected through wireless communication between the subkey accommodated in the vehicle and the vehicle. The gist of this is that it is performed by executing a process of invalidating.

The vehicle electronic key system according to the present invention can maintain a high security level even when a plurality of electronic keys are provided.

Hereinafter, an embodiment of an electronic key system for a vehicle according to the present invention will be described with reference to FIGS. The basic configuration of the electronic key system for a vehicle according to the present embodiment is the same as that of the electronic key system illustrated in FIG. FIG. 1 schematically shows an outline of such an electronic key system. First, the configuration of the electronic key system will be described with reference to FIG.

As shown in FIG. 1, this electronic key system also unlocks the aforementioned vehicle door or permits the engine to be started through wireless communication between the vehicle 10 and the electronic key (portable device) 20. It is a system which performs various processes concerning vehicle control, such as. Here, the electronic key 20 is used in place of the master key 21 such as a master key 21 mainly used by the owner of the vehicle 10 and for the purpose of lending to a person other than the vehicle owner, for example. The first and second subkeys 22 and 23 are configured. Incidentally, the master key 21 includes processing for unlocking the vehicle door and permission for starting the engine, for example, processing for permission to use the car navigation device 40 on the condition that the master key 21 is located in the above-described communicable area B. The electronic key has a function as an electronic key that can execute various processes related to vehicle control in a comprehensive manner. On the other hand, the sub-keys 22 and 23 execute the process for unlocking the vehicle door and permitting the start of the engine, but the process for permitting the use of the car navigation device 40 even if it is located in the communicable area B. The electronic key has a function as an electronic key with restrictions on the execution of various processes related to vehicle control.

The master key 21 and the sub keys 22 and 23 have different identification codes (ID codes) IDA, IDB, and IDC, respectively, and ID codes IDA, IDB, and IDC in response to the request signal transmitted from the vehicle described above. A response signal including is transmitted. On the other hand, the vehicle 10 transmits the request signal to the outdoor transmission device 11 for transmitting the above request signal to the communicable area A set around the vehicle door, and to the communicable area B set in the vehicle interior. And a receiving device 13 for receiving response signals transmitted from the master key 21 and the sub keys 22 and 23. Further, in this vehicle 10, on the condition that the position of the master key 21 grasped by the electronic key system is a position in the communicable area B, for example, through the operation of the car navigation device 40 by the vehicle owner, the sub key The ID codes IDB and IDC of 22 and 23 can be validated / invalidated. And various processes concerning in-vehicle devices such as the car navigation device 40 and the door lock mechanism 15, the transmission control of the request signal by the outdoor transmission device 11 and the indoor transmission device 12, and the processing of the response signal received through the reception device 13 is centrally performed through the vehicle-side control device 14 mounted on the vehicle 10. Incidentally, the control device 14 has an ID code database 14a in which information of ID codes IDA, IDB and IDC of the master key 21 and the sub keys 22 and 23 are registered in advance. On the other hand, a case 30 for accommodating the subkeys 22 and 23 is provided inside the glove box 16 of the vehicle 10, and these subkeys 22 and 23 are usually accommodated and stored in the case 30. At the same time, it is taken out from the case 30 and used.

Next, the details of the structure of the case 30 will be described with reference to FIG. Here, FIG. 2 shows a cross-sectional structure of the case 30.
As shown in FIG. 2, the case 30 is formed in a box shape and has two receiving spaces 31 and 32 having openings on the right side thereof. 23 has a structure that can be accommodated in the accommodating spaces 31 and 32 by being inserted from the opening. The case 30 has a first and second subkey detection switch that is turned off when the subkeys 22 and 23 are not housed in the housing spaces 31 and 32 and turned on when they are housed. 33 and 34 are provided. Incidentally, these sub-key detection switches 33 and 34 are contact type switches, and have contact portions 33a and 34a arranged so as to protrude from the inner walls of the accommodation spaces 31 and 32, respectively. When the state 34a protrudes from the inner walls of the accommodating spaces 31, 32, the off state is established. The sub-key detection switches 33 and 34 are turned on when the contact portions 33a and 34a are buried in the inner walls of the housing spaces 31 and 32 as the sub-keys 22 and 23 are inserted into the housing spaces 31 and 32. Become. On the other hand, in case 30, when either one of the sub key detection switches 33 and 34 changes from the off state to the on state, the request signal is transmitted to the communicable area C including the accommodation spaces 31 and 32. A device 35 is provided. That is, in this electronic key system, it is possible to perform wireless communication between the sub key accommodated in the case 30 and the vehicle 10 by transmitting a request signal from the in-case transmission device 35 to the communicable area C. It has become.

FIG. 3 is a block diagram showing the system configuration of such an electronic key system. Next, the operation of the electronic key system according to the present embodiment will be described in detail with reference to FIG.

For example, when a request signal is issued from the outdoor transmission device 11 of the vehicle 10 to the communicable area A, if the master key 21 possessed by the vehicle owner enters the communicable area A, In this manner, signal exchange between the vehicle 10 and the master key 21 is executed. That is, in this electronic key system, the request signal transmitted from the outdoor transmission device 11 of the vehicle 10 is received by the reception device 21a of the master key 21 and this request signal is transmitted to the control device 21c of the master key 21. Based on the transmission of such a request signal, the control device 21c of the master key 21 generates a response signal including the ID code IDA stored in the built-in memory and transmits the response signal to the transmission device 21b of the master key 21. This response signal is transmitted to the vehicle 10. When the response signal is transmitted in this manner, the vehicle receiving device 13 receives the response signal and transmits the received response signal to the vehicle-side control device 14. As a result, the vehicle-side control device 14 collates the ID code IDA included in the transmitted response signal with the ID code registered in the ID code database 14a as described above. When the authentication is performed, the vehicle door is unlocked through the door lock mechanism 15 which is a control target. Similarly to the master key 21, the sub keys 22 and 23 also have receiving devices 22a and 23a, transmitting devices 22b and 23b, and control devices 22c and 23c, respectively, and perform a series of operations in the same manner.

On the other hand, for example, when the first subkey 22 that has been rented is returned to the vehicle owner, the vehicle owner enters the communicable area B with the master key 21 in the car navigation device. It is assumed that an operation for invalidating the ID code IDB of the first sub key 22 is performed through 40. At this time, in this electronic key system, the fact that an operation for invalidating the ID code IDB has been performed is transmitted from the car navigation device 40 to the vehicle-side control device 14, and the vehicle-side control device 14 transmits the transmitted information, Based on the information that the master key 21 is located in the communicable area B, the ID code IDB of the identification codes registered in the ID code database 14a is set invalid. Then, in the vehicle-side control device 14, the first electronic key 22 having the ID code IDB that is invalidated when the electronic key is authenticated through the verification of the ID code included in the response signal. When it is determined that the vehicle is unlocked, execution of unlocking of the vehicle door through the door lock mechanism 15 is prohibited. Thereby, the various processes concerning the vehicle control based on the authentication of the first sub key 22 are completely prohibited, and the function of the first sub key 22 is disabled. Incidentally, in this electronic key system, the vehicle owner having the master key 21 makes the ID code IDB of the first subkey 22 valid through the car navigation device 40 in a state where the vehicle owner is located in the communicable area B. When the operation is performed, the ID code IDB of the ID codes registered in the ID code database 14a is switched from invalid to valid, and the function of the first sub key 22 is validated. Similarly, if the vehicle owner having the master key 21 performs an operation to enable / disable the ID code IDC of the second subkey 23 through the car navigation device 40, the function of the second subkey 23 is also enabled / disabled. Become.

By the way, when the operation for enabling / disabling the ID codes IDB and IDC of the subkeys 22 and 23 is an operation by the vehicle owner, the vehicle owner disables the ID code IDB when the first subkey 22 is returned, for example. It is also assumed that the first sub key 22 is

accommodated in the glove box 16 as it is. That is, in such a situation, there is a concern that a third party who has stolen the first subkey 22 will illegally use it.

Therefore, in the vehicle-side control device 14, the on / off information of the subkey detection switches 33 and 34 and the transmission of the request signal from the in-case transmission device 35 are used to control the subkeys 22 and 23 in the case 30. When either one is accommodated, the ID code of the subkey accommodated in the case 30 is automatically invalidated.

FIG. 4 is a flowchart showing the procedure of the process executed through the vehicle-side control device 14 for the process of automatically invalidating the ID code of the subkey accommodated in the case 30. Next, FIG. A specific procedure of the processing will be described with reference to FIG. The process shown in FIG. 4 is repeatedly executed with a predetermined calculation cycle when at least one of the sub keys 22 and 23 is taken out from the case 30.

As shown in FIG. 4, in this process, first, based on the on / off information of the sub key detection switches 33, 34, it is determined whether one of the sub keys 22, 23 is accommodated in the case 30. (Step S10). Specifically, when it is detected that either one of the sub key detection switches 33 and 34 is turned on from the off state, it is determined that one of the sub keys 22 and 23 is accommodated in the case 30. The When it is detected that either one of the sub keys 22 and 23 is accommodated in the case 30 (step S10: YES), a request signal is transmitted from the in-case transmission device 35 to the communicable area C at a predetermined cycle. Is transmitted (step S11), and it is determined whether a response signal can be received in response to the request signal (step S12). Incidentally, in the process of step S12, when it is determined that the request signal has been transmitted a predetermined number of times in the process of step S15 without receiving a response signal (step S12: NO) (step S15: YES).), The process is terminated as it is.

On the other hand, if it is determined through the process of step S12 that the response signal has been received (step S12: YES), the ID code included in the response signal and the ID registered in the ID code database 14a The code is collated, and through this collation, the sub key accommodation information in the case 30 is acquired (step S13). Specifically, the detection processing in step S13 is performed as processing shown in the following (a1) to (a3).

(A1) When the ID code IDB is included in the response signal. In this case, information that the first sub key 22 is accommodated in the case 30 is acquired.
(A2) When the ID code IDC is included in the response signal. In this case, information that the second subkey 23 is accommodated in the case 30 is acquired.

(A3) A case where both ID codes IDB and IDC are included in the response signal. In this case, information that both the first and second subkeys 22 and 23 are accommodated in the case 30 is acquired.

(A4) A case where neither the ID code IDB nor the IDC ID code is included in the response signal. In this case, information that the first and second subkeys 22 and 23 are not accommodated in the case 30 is acquired.

That is, the process of step S <b> 13 is a process of acquiring information on the sub key accommodated in the case 30 using wireless communication between the sub key accommodated in the case 30 and the vehicle 10. In the subsequent step S14, the ID code of the subkey stored in the case 30 is invalidated in the ID code database 14a based on the storage information of the subkey in the case 30 acquired through step S13. The The process of step S14 is specifically performed as the processes shown in the following (b1) to (b4).

(B1) If the information shown in (a1) is acquired in the process of step S13, the ID code IDB is set invalid in the ID code database 14a.
(B2) When the information shown in (a2) is acquired in the process of step S13, the ID code IDC is set invalid in the ID code database 14a.

(B3) When the information shown in (a3) is acquired in the process of step S13, both the ID codes IDB and IDC are set invalid in the ID code database 14a.

(B4) If the information shown in (a4) is acquired in the process of step S13, the information in the ID code database 14a is maintained as it is. That is, the process of step S14 is a process of invalidating only the ID code of the sub key accommodated in the case 30. And after the process of this step S14, the vehicle side control apparatus 14 once complete | finishes this series of processes.

According to such a configuration as the electronic key system, even when the vehicle owner accommodates the subkeys 22 and 23 in the case 30, even if the user forgets the operation of invalidating the ID codes IDB and IDC of the subkeys 22 and 23, the subkey 22 , 23 are automatically invalidated when the case 30 is accommodated in the case 30. For this reason, unauthorized use of the subkeys 22 and 23 by the third party can be suitably prevented, and as a result, the security level of the electronic key system can be maintained high.

By the way, in such an electronic key system, when either one of the subkeys 22 and 23 is accommodated in the case 30, a method of performing a process of invalidating both the ID codes IDB and IDC of the subkeys 22 and 23 is also considered. However, when such processing is performed, there are concerns about the following inconveniences. First, for example, when both of the subkeys 22 and 23 are lent out, only the first subkey 22 is returned, and the vehicle owner accommodates the returned first subkey 22 in the case 30. . At this time, if the ID code IDB of the lent second subkey 23 becomes invalid and its function is restricted, there is a possibility that the second subkey 23 cannot be used suddenly, or the like. . In this regard, in the electronic key system according to the present embodiment, when the first subkey 22 is accommodated in the case 30, only the ID code IDB of the first subkey 22 is invalidated, so the second subkey being lent out it is possible to avoid inconveniences such as sudden failure of the use of the 23, and as a result, the convenience of the second subkey 23 can be maintained as it is.

As described above, according to the electronic key system for a vehicle according to the present embodiment, the following effects can be obtained.
(1) After providing the case 30 for accommodating the sub keys 22 and 23 in the vehicle, when the sub keys 22 and 23 are accommodated in the case 30, the ID codes IDB and IDC of the sub keys 22 and 23 are invalidated. Thus, the execution of unlocking the vehicle door based on the authentication of the subkeys 22 and 23 is forcibly prohibited. Thus, when the vehicle owner accommodates the subkeys 22 and 23 in the casa 30, even if the operation of disabling the ID codes IDB and IDC of the subkeys 22 and 23 is forgotten, the subkeys 22 and 23 are not attached to the case 30. When they are accommodated, their ID codes IDB and IDC are automatically invalidated. Therefore, unauthorized use of the subkeys 22 and 23 by the third party can be suitably prevented, and as a result, the security level of the electronic key system can be maintained high.

(2) Acquire accommodation information of the sub key in the case 30 through wireless communication between the sub keys 22, 23 and the vehicle 10, and accommodate in the case 30 based on the obtained accommodation information of the sub key in the case 30. Only the ID code of the subkey that is being used is invalidated. Thereby, for example, when the first subkey 22 is accommodated in the case 30, only the ID code of the first subkey 22 becomes invalid, so that the second subkey 23 being rented cannot be used suddenly. The inconvenience of the second subkey 23 can be maintained as it is.

In addition, the said embodiment can also be implemented with the following forms which changed this suitably.
In the above embodiment, the sub key is composed of two electronic keys, but may be composed of one electronic key or three or more electronic keys. Further, the number of housing spaces in the case may be increased or decreased according to the number of subkeys.

In the above embodiment, the vehicle control based on the authentication of the master key 21 and the sub keys 22 and 23 is exemplified by the control for unlocking the vehicle door through the door lock mechanism 15. Control for locking, control for unlocking the trunk door of the vehicle, or the like may be employed.

In the above embodiment, the sub key detection switches 33 and 34 are configured as contact type switches. However, for example, the sub key detection switches 33 and 34 are configured as non-contact type switches using a magnetic detection element such as a magnetoresistive effect element. Also good.

In the above-described embodiment, the case 30 as the accommodating portion for accommodating the sub keys 22 and 23 is provided in the glove box 16, but instead of this, for example, in the console box of the vehicle, the vehicle occupant You may make it provide in the appropriate place which is hard to see from.

In the above embodiment, the operation on the car navigation device 40 is adopted as the operation for invalidating the ID codes IDB and IDC of the sub keys 22 and 23. Instead, for example, a dedicated device for enabling / disabling the ID codes IDB and IDC of the subkeys 22 and 23 is provided in the center console in the vehicle interior, and the device for this dedicated device is adopted. It may be.

In the above embodiment, the ID code of the sub key accommodated in the case 30 is detected by using the exchange of request signals and response signals between the sub keys 22 and 23 and the vehicle 10. Instead of this, for example, when the sub keys 22 and 23 have a transponder function, the ID of the sub key accommodated in the case 30 using the transponder communication between the sub keys 22 and 23 and the vehicle 10. A code may be detected.

In the above embodiment, when the subkeys 22 and 23 are accommodated in the case 30, only the ID code of the subkey accommodated in the case 30 is invalidated, but depending on the usage environment of the subkeys 22 and 23 Regardless of whether it is accommodated in the case 30, both the ID codes IDB and IDC of the subkeys 22 and 23 may be invalidated.

In the above embodiment, authentication of the electronic keys 20 such as the master key 21 and the sub keys 22 and 23 is performed using ID code verification. Instead, for example, the vehicle 10 and the electronic key 20 have a common encryption key, and authentication is performed by exchanging the result of encrypting random number data (challenge code) with the encryption key. Response authentication may be used.

In the above embodiment, when an operation for invalidating the ID codes IDB and IDC of the sub keys 22 and 23 is performed, vehicle control such as execution of unlocking of the vehicle door based on the authentication of the sub keys 22 and 23 is performed. Such various processes are completely prohibited. Instead, for example, when an operation for invalidating the ID codes IDB and IDC of the subkeys 22 and 23 is performed, the process for unlocking the vehicle door is performed, but the process for permitting engine start is performed. You may make it restrict | limit execution of the various processes concerning vehicle control, such as not performing.

In the above-described embodiment, the sub keys 22 and 23 are provided with restrictions on the execution of the process for permitting the use of the car navigation device 40, but for example, the process for permitting the use of the car navigation device 40 It may be one that can comprehensively execute various processes relating to vehicle control, including execution. In short, it is only necessary that execution of various processes related to vehicle control based on authentication of the sub keys 22 and 23 and cancellation of the restrictions are performed through the operation of the car navigation device 40 or the like.
(Appendix)
Next, a technical idea that can be grasped from the above embodiment and its modifications will be additionally described.

(A) In the electronic key system for a vehicle according to any one of claims 1 to 3, the predetermined operation on the in-vehicle device is an operation on a car navigation device mounted on the vehicle. Vehicle electronic key system. Specifically, as according to the invention described

in Appendix A, as a predetermined operation on the in-vehicle device, for example, an operation on a car navigation device mounted on the vehicle can be employed.

(B) In the electronic key system for a vehicle according to any one of claims 1 to 3 and appendix i, the housing portion is provided in a glove box of the vehicle and a portion into which the sub key is inserted. An electronic key system for a vehicle, which is formed as a box having an accommodating space. Specifically, as in the invention described in Appendix B, a configuration is adopted in which the storage portion is provided in the glove box of the vehicle and is formed as a box having a storage space into which the sub key is inserted. be able to.

(C) In the electronic key system for a vehicle described in appendix b, the housing portion is provided with a subkey detection switch that is turned on when the subkey is inserted into the housing space, and the subkey is The electronic key system for a vehicle, wherein the electronic key system of the vehicle is detected through the subkey detection switch. Specifically, as in the invention described in appendix C, the sub key is accommodated in the accommodating portion after the accommodating portion is provided with a sub key detection switch that is turned on when the sub key is inserted into the accommodating space. It is possible to adopt a configuration in which the key is detected through a sub key detection switch.

(D) In the electronic key system for a vehicle according to any one of claims 1 to 3 and appendices A to C, the vehicle control is control for locking / unlocking a vehicle door. Vehicle electronic key system. Specifically, as in the invention described in claim D, for example, control for locking / unlocking the vehicle door can be employed as the vehicle control.

The top view which shows typically the outline | summary about one Embodiment of the electronic key system of the vehicle concerning this invention. Sectional drawing which shows the cross-sectional structure about the case which accommodates the sub key of the electronic key system of the vehicle of the embodiment. The block diagram which shows the system structure about the electronic key system of the vehicle of the embodiment. The flowchart which shows the process sequence about the process which invalidates the ID code of the subkey by the electronic key system of the embodiment. The top view which shows typically the outline | summary of the electronic key system generally employ | adopted conventionally.

Explanation of symbols

IDA, IDB, IDC ... identification code (ID code), 10 ... vehicle, 11 ... outdoor transmitter, 12 ... indoor transmitter, 13 ... receiver, 14 ... vehicle side controller, 14a ... ID code database, 15 ... door Lock mechanism, 16 ... glove box, 20 ... electronic key, 21 ... master key, 21a, 22a, 23a ... receiving device, 21b, 22b, 23b ... transmitting device, 21c, 22c, 23c ... control device, 22, 23 ... subkey , 30 ... case, 31, 32 ... accommodation space, 33, 34 ... sub-key detection switch, 33a, 34a ... contact portion, 35 ... in-case transmission device, 40 ... car navigation device.

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Priority And Related Applications

Priority Applications (1)

Application	Priority date	Filing date	Title
JP2008148122A	2008-06-05	2008-06-05	Electronic key system of vehicle

Applications Claiming Priority (1)

Application	Filing date	Title
JP2008148122A	2008-06-05	Electronic key system of vehicle

Legal Events

Date	Code	Title	Description
2010-10-19	A621	Written request for application examination	**Free format text**: JAPANESE INTERMEDIATE CODE: A621 **Effective date**: 20101018
2012-03-29	A761	Written withdrawal of application	**Free format text**: JAPANESE INTERMEDIATE CODE: A761 **Effective date**: 20120328

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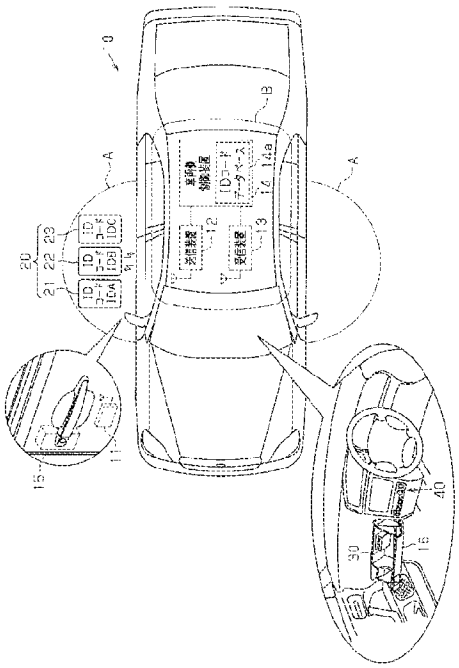
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(71)出願人　000003551
株式会社東海理化電機製作所
愛知県丹羽郡大口町豊田三丁目２６０番地
(74)代理人　100068755
弁理士　恩田　博宣
(74)代理人　100105957
弁理士　恩田　誠
(72)発明者　三村　裕紀
愛知県丹羽郡大口町豊田三丁目２６０番地
株式会社東海理化電機製作所内
(72)発明者　大嶌　優季
愛知県丹羽郡大口町豊田三丁目２６０番地
株式会社東海理化電機製作所内

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(54)【発明の名称】車両の電子キーシステム

(57)【要約】
【課題】複数の電子キーを備えている場合であれ、セキュリティレベルを高く維持することのできる車両の電子キーシステムを提供する。
【解決手段】この電子キーシステムは、車両１０と無線通信を行う電子キー２０がマスターキー２１及びサブキー２２，２３から構成されるとともに、無線通信を通じたマスターキー２１及びサブキー２２，２３の認証に基づいて、ドアロック機構１５を通じた車両ドアのアンロックを実行する。また、このシステムでは、車両１０のオーナが、マスターキー２１を所持した状態でカーナビゲーション装置４０を操作することで、サブキー２２，２３の認証に基づいた車両ドアのアンロックの実行を禁止することができる。ここでは、車両１０にサブキー２２，２３を収容するためのケース３０を設けた上で、サブキー２２，２３がケース３０に収容されたとき、サブキー２２，２３の認証に基づいた車両ドアのアンロックの実行を強制的に禁止する。
【選択図】図１



【特許請求の範囲】
【請求項１】
車両と複数の電子キーとの間の無線通信を通じて前記電子キーの認証が行われることで車両制御にかかる各種処理が実行されるとともに、前記複数の電子キーが、前記車両制御にかかる各種処理を総括的に実行することのできるマスターキーと、前記車両制御にかかる各種処理の実行に制限を設けることのできるサブキーとからなり、車載装置に対する所定の操作に基づいて、前記サブキーの認証に基づく前記車両制御にかかる各種処理の実行の制限とその制限の解除とが行われる車両の電子キーシステムであって、
前記車両には、前記サブキーを収容するための収容部が設けられ、前記サブキーが前記収容部に収容されたとき、前記サブキーの認証に基づく前記車両制御にかかる各種処理の実行が強制的に制限される
ことを特徴とする車両の電子キーシステム。
【請求項２】
前記マスターキー及びサブキーは、異なる識別コードをそれぞれ有するとともに、前記車両は、前記マスターキー及びサブキーの識別コードがそれぞれ登録された識別コードデータベースを有し、前記無線通信を通じて前記マスターキー及びサブキーの識別コードと前記識別コードデータベースに登録された識別コードとを照合することで前記マスターキー及びサブキーの認証を行い、且つ、前記サブキーが収容部に収容されたことを検出したとき、同収容部に収容されたサブキーとの間の無線通信を通じて同サブキーの識別コードを検出するとともに、同検出された識別コードを有するサブキーの認証に基づく前記車両制御にかかる各種処理の実行を強制的に制限する
請求項１に記載の車両の電子キーシステム。
【請求項３】
前記車載装置に対する所定の操作に基づいて、前記サブキーの識別コードが有効／無効に設定されるとともに、前記車両は、前記無線通信を通じて認証されたサブキーが前記無効とされる識別コードを有するサブキーである旨を判断したとき、前記車両制御にかかる各種制御を制限する処理を実行するものであって、前記収容部に収容されたサブキーと前記車両との間の無線通信を通じて検出された識別コードを有するサブキーの認証に基づく前記車両制御にかかる各種処理の実行の強制的な制限が、同検出された識別コードを無効に設定する処理を実行することで行われる
請求項２に記載の車両の電子キーシステム。
【発明の詳細な説明】
【技術分野】
【０００１】
本発明は、車両と電子キーとの間の無線通信を通じて車両の各種制御を実行する車両の電子キーシステムに関し、特に電子キーを複数備える車両の電子キーシステムに関する。
【背景技術】
【０００２】
電子キー（携帯機）を所持した車両オーナが車両ドアに接近することにより車両ドアのアンロックが自動的に実行されるとともに、車両オーナが車室内に入ることによりエンジンの始動などが許可される、いわゆる電子キーシステムが周知である。そして従来、このような電子キーシステムとしては、例えば特許文献１に記載のシステムが知られている。図５に、この特許文献１に記載のシステムも含めて、従来一般に採用されている電子キーシステムの概要を示す。
【０００３】
同図５に示されるように、この電子キーシステムでは、例えば車両ドアに設けられた室外送信装置１１から車両ドアの周辺に設定された通信可能エリアＡにリクエスト信号を送信するとともに、車室内に設けられた室内送信装置１２から同車室内に設定された通信可能エリアＢにリクエスト信号を送信する。またこの電子キーシステムでは、上記室外送信装置１１及び室内送信装置１２から送信されたリクエスト信号を受信するとともに、この

受信したリクエスト信号に対して識別コード（ＩＤコード）などの情報を含む応答信号を送信する電子キー２０を車両１０のオーナが所持する。すなわち、電子キー２０を所持した車両オーナが通信可能エリアＡ、あるいは通信可能エリアＢに進入することによって、同電子キー２０から応答信号が送信される。そしてこのシステムにおいて、電子キー２０から送信された応答信号は車室内に設けられた受信装置１３により受信されて、車両１０にかかる各種制御を実行する車両側制御装置１４に伝達される。同制御装置１４では、この受信された応答信号に含まれる電子キー２０のＩＤコードと同制御装置１４内のメモリに予め記憶されているＩＤコードとの照合を行い、この照合を通じて電子キー２０の認証が行われると、例えば車両ドアに設けられているドアロック機構１５をアンロックしたり、あるいはエンジンの始動を許可するなどの車両制御を実行する。このような電子キーシステムによれば、車両オーナの直接的な手動操作によることなく車両１０の各種操作が自動的に行われるようになるため、車両１０の操作にかかる利便性が大きく向上するようになる。

【０００４】

一方、こうした電子キーシステムにあっては、上記電子キー２０が、主に車両オーナによって使用されるマスターキーと、例えば車両オーナ以外の者に貸し出すことを目的として使用されるなど、マスターキーの代わりに補助的に使用されるサブキーとの２種類の電子キーからなるものがある。ここで、こうした電子キーシステムにあっては、一般に、マスターキーは、上述の車両ドアのアンロックやエンジンの始動許可にかかる処理を含め、例えば上記通信可能エリアＢに位置していることを条件に車室内のカーナビゲーション装置の使用許可にかかる処理が実行されるなど、車両制御にかかる各種処理を総括的に実行することのできる電子キーとしての機能を有している。一方、サブキーは、上記車両ドアのアンロックやエンジンの始動許可にかかる処理は実行されるが、上記通信可能エリアＢに位置していたとしてもカーナビゲーション装置の使用許可にかかる処理が実行されないなど、車両制御にかかる各種処理の実行に制限の設けられた電子キーとしての機能を有している。こうした電子キーシステムによれば、例えばホテルを利用する際に従業員に車両１０を駐車場まで運んでもらうサービス、いわゆるバレットパーキングサービスを利用する際に、車両オーナは従業員にサブキーを貸し出すようにすれば、車両オーナの知らない間にカーナビゲーション装置が操作されるなどの不正使用を防止することができるようになる。このため、電子キーシステムとしてのセキュリティレベルを向上させることができるようになる。

【特許文献１】特開２００１－３１１３３３号公報

【発明の開示】

【発明が解決しようとする課題】

【０００５】

このように、電子キーシステムとしてマスターキー及びサブキーの２種類の電子キーを備えるようにすることで、確かに電子キーシステムとしてのセキュリティレベルを向上させることができるようになる。ただし、車両オーナによって常時携帯所持されるマスターキーと異なり、サブキーは、例えば車室内のグローブボックスなどに収容されたままの状態で放置されることがあるため、第三者によって盗難されて不正に使用されるなどの懸念がある。そこで、こうした懸念を払拭するために、例えばマスターキーとサブキーとに互いに異なるＩＤコードをそれぞれ設定するようにした上で、車両オーナによるカーナビゲーション装置の操作などを通じてサブキーのＩＤコードを有効／無効に設定することのできる電子キーシステムなどが考えられる。すなわち、こうした電子キーシステムによれば、サブキーのＩＤコードを無効にすることで、上記車両ドアのアンロックやエンジンの始動許可にかかる処理を含む、サブキーの認証に基づく車両制御にかかる各種処理の実行を完全に禁止することができるようになる。したがって、車両オーナは、例えばサブキーの貸出時にそのＩＤコードを有効にするとともに、返却時にそのＩＤコードを無効にするなど、サブキーの使用状況に応じて適宜にその機能を有効／無効にすることで、上述のような第三者によるサブキーの不正使用を好適に防止することができるようになる。

【０００６】
しかしながら、サブキーのＩＤコードの有効／無効の切り替えが車両オーナの操作によるものであるため、車両オーナが、例えばサブキーの返却時にそのＩＤコードを無効にする操作を忘れて、サブキーをそのままグローブボックスに収容してしまうような状況も想定される。すなわち、このような状況にあっては、上述の第三者によるサブキーの不正使用を防止することができないおそれがある。
【０００７】
このように、マスターキーやサブキーのような複数の電子キーを備える電子キーシステムに関しては、高いセキュリティレベルを維持しようとすると、未だ改良の余地を残すものとなっている。
【０００８】
本発明は、こうした実情に鑑みてなされたものであり、その目的は、複数の電子キーを備えている場合であれ、セキュリティレベルを高く維持することのできる車両の電子キーシステムを提供することにある。
【課題を解決するための手段】
【０００９】
上記課題を解決するために、請求項１に記載の発明は、車両と複数の電子キーとの間の無線通信を通じて前記電子キーの認証が行われることで車両制御にかかる各種処理が実行されるとともに、前記複数の電子キーが、前記車両制御にかかる各種処理を総括的に実行することのできるマスターキーと、前記車両制御にかかる各種処理の実行に制限を設けることのできるサブキーとからなり、車載装置に対する所定の操作に基づいて、前記サブキーの認証に基づく前記車両制御にかかる各種処理の実行の制限とその制限の解除とが行われる車両の電子キーシステムであって、前記車両には、前記サブキーを収容するための収容部が設けられ、前記サブキーが前記収容部に収容されたとき、前記サブキーの認証に基づく前記車両制御にかかる各種処理の実行が強制的に制限されることを要旨としている。
【００１０】
前述のように、電子キーシステムとしてマスターキー及びサブキーの２種類の電子キーを備えるようにすれば、例えばパレットパーキングサービスなどを利用する際に、車両オーナはサブキーを貸し出すことで、車両オーナの知らない間に車載装置が操作されるなどの不正使用を防止することができるため、システムとしてのセキュリティレベルを向上させることができるようになる。また、車載装置に対する所定の操作に基づいて、サブキーの認証に基づく車両制御にかかる各種処理の実行の制限とその制限の解除とを行うようにすれば、車両オーナは、サブキーの使用状況に応じて適宜にその機能を制限することができるため、第三者によるサブキーの不正使用を好適に防止することができるようになることも前述した通りである。ただし、サブキーが返却された際に、車両オーナが車載装置に対して所定の操作を行うことを忘れて、サブキーが機能の制限されていない状態で放置されるようなことがあると、上記第三者によるサブキーの不正使用を防止することができないおそれがある。この点、同構成によれば、サブキーの返却の際に車両オーナが車載装置に対する所定の操作を忘れるようなことがあったとしても、サブキーが収容部に収容されたときに自動的にその機能が制限されるようになる。このため、上記第三者によるサブキーの不正使用を好適に防止することができるようになり、ひいては電子キーシステムのセキュリティレベルを高く維持することができるようになる。
【００１１】
請求項２に記載の発明は、請求項１に記載の車両の電子キーシステムにおいて、前記マスターキー及びサブキーは、異なる識別コードをそれぞれ有するとともに、前記車両は、前記マスターキー及びサブキーの識別コードがそれぞれ登録された識別コードデータベースを有し、前記無線通信を通じて前記マスターキー及びサブキーの識別コードと前記識別コードデータベースに登録された識別コードとを照合することで前記マスターキー及びサブキーの認証を行い、且つ、前記サブキーが収容部に収容されたことを検出したとき、同収容部に収容されたサブキーとの間の無線通信を通じて同サブキーの識別コードを検出す

るとともに、同検出された識別コードを有するサブキーの認証に基づく前記車両制御にかかる各種処理の実行を強制的に制限することを要旨としている。

【００１２】

サブキーが収容部に収容されたときにサブキーの認証に基づく車両制御にかかる各種処理の実行を強制的に制限するようにすることで、確かに電子キーシステムのセキュリティレベルを高く維持することができるようになる。ただし、サブキーが収容部に収容されたときに、全てのサブキーの機能を強制的に制限するようにしたとすると、例えば貸出中のサブキーの機能も強制的に制限されて、同貸出中のサブキーが突然使用することができなくなるなどの不都合が生じるおそれがある。この点、同構成によるように、収容部に収容されたサブキーの識別コードを検出するとともに、この検出された識別コードを有するサブキーの認証に基づく車両制御にかかる各種処理の実行を強制的に制限するようにすれば、貸出中のサブキーが突然使用することができなくなるなどの不都合を回避することができるため、サブキーの利便性をそのまま維持することができるようになる。

【００１３】

請求項３に記載の発明は、請求項２に記載の車両の電子キーシステムにおいて、前記車載装置に対する所定の操作に基づいて、前記サブキーの識別コードが有効／無効に設定されるとともに、前記車両は、前記無線通信を通じて認証されたサブキーが前記無効とされる識別コードを有するサブキーである旨を判断したとき、前記車両制御にかかる各種制御を制限する処理を実行するものであって、前記収容部に収容されたサブキーと前記車両との間の無線通信を通じて検出された識別コードを有するサブキーの認証に基づく前記車両制御にかかる各種処理の実行の強制的な制限が、同検出された識別コードを無効に設定する処理を実行することで行われることを要旨としている。

【発明の効果】

【００１４】

本発明にかかる車両の電子キーシステムによれば、複数の電子キーを備えている場合であれ、セキュリティレベルを高く維持することができる。

【発明を実施するための最良の形態】

【００１５】

以下、本発明にかかる車両の電子キーシステムの一実施形態について図１～図４を参照して説明する。なお、本実施形態にかかる車両の電子キーシステムの基本構成は、先の図５に例示した電子キーシステムと同様である。図１は、こうした電子キーシステムの概要を模式的に示したものであり、はじめに、図１を参照して、この電子キーシステムの構成を説明する。

【００１６】

同図１に示されるように、この電子キーシステムも、車両１０と電子キー（携帯機）２０との間の無線通信を通じて、前述した車両ドアをアンロックしたり、あるいはエンジンの始動を許可するなどの車両制御にかかる各種処理を実行するシステムである。ここで、電子キー２０は、主に車両１０のオーナによって使用されるマスターキー２１と、例えば車両オーナ以外の者に貸し出すことを目的として使用されるなど、マスターキー２１の代わりに補助的に使用される第１及び第２のサブキー２２，２３とから構成されている。ちなみに、マスターキー２１は、上記車両ドアのアンロックやエンジンの始動許可にかかる処理を含め、例えば前述した通信可能エリアＢに位置していることを条件にカーナビゲーション装置４０の使用許可にかかる処理が実行されるなど、車両制御にかかる各種処理を総括的に実行することのできる電子キーとしての機能を有している。一方、サブキー２２，２３は、上記車両ドアのアンロックやエンジンの始動許可にかかる処理は実行されるが、上記通信可能エリアＢに位置していたとしてもカーナビゲーション装置４０の使用許可にかかる処理が実行されないなど、車両制御にかかる各種処理の実行に制限の設けられた電子キーとしての機能を有している。また、これらマスターキー２１及びサブキー２２，２３は、互いに異なる識別コード（ＩＤコード）ＩＤＡ，ＩＤＢ，ＩＤＣをそれぞれ有し、前述した車両から送信されるリクエスト信号に対してＩＤコードＩＤＡ，ＩＤＢ，ＩＤ

Ｃを含む応答信号を送信する。一方、車両１０には、車両ドアの周辺に設定された通信可能エリアＡに前述のリクエスト信号を送信するための室外送信装置１１と、車室内に設定された通信可能エリアＢにリクエスト信号を送信する室内送信装置１２と、上記マスターキー２１及びサブキー２２，２３から送信される応答信号を受信するための受信装置１３とが設けられている。また、この車両１０では、電子キーシステムで把握しているマスターキー２１の位置が上記通信可能エリアＢ内の位置であることを条件に、例えば車両オーナによる上記カーナビゲーション装置４０の操作を通じて、サブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣを有効／無効にすることもできる。そして、カーナビゲーション装置４０やドアロック機構１５などの車載装置にかかる各種処理、室外送信装置１１や室内送信装置１２による上記リクエスト信号の送信制御、並びに受信装置１３を通じて受信される上記応答信号の処理が、車両１０に搭載されている車両側制御装置１４を通じて統括的に行われる。ちなみにこの制御装置１４は、上記マスターキー２１及びサブキー２２，２３のＩＤコードＩＤＡ，ＩＤＢ，ＩＤＣの情報が予め登録されたＩＤコードデータベース１４ａを有している。一方、車両１０のグローブボックス１６の内部には、上記サブキー２２，２３を収容するためのケース３０が設けられており、これらサブキー２２，２３は通常、このケース３０内に収容されて保管されるとともに、貸出時にこのケース３０から取り出されて使用される。

【００１７】

次に、図２を参照して、ケース３０の構造の詳細について説明する。ここで、図２は、ケース３０の断面構造を示したものである。

同図２に示されるように、このケース３０は、箱体状に形成されるとともに、その右側面に開口部の形成された２つの収容空間３１，３２を有しており、上記サブキー２２，２３を開口部から挿入して収容空間３１，３２内に収容することのできる構造となっている。また、このケース３０には、これら収容空間３１，３２内にサブキー２２，２３が収容されていないときにオフ状態となり、収容されているときにオン状態となる第１及び第２のサブキー検出スイッチ３３，３４が設けられている。ちなみに、これらのサブキー検出スイッチ３３，３４は、接触式のスイッチであり、収容空間３１，３２の内壁から突出するかたちで配置された接触部３３ａ，３４ａをそれぞれ有して、これら接触部３３ａ，３４ａが収容空間３１，３２の内壁から突出している状態のときにオフ状態となる。また、これらのサブキー検出スイッチ３３，３４は、サブキー２２，２３の収容空間３１，３２への挿入に伴って、接触部３３ａ，３４ａが収容空間３１，３２の内壁に埋没したときにオン状態となる。一方、ケース３０には、サブキー検出スイッチ３３，３４のいずれか一方がオフ状態からオン状態となったときに、上記収容空間３１，３２を含む通信可能エリアＣにリクエスト信号を送信するケース内送信装置３５が設けられている。すなわち、この電子キーシステムでは、ケース内送信装置３５から通信可能エリアＣにリクエスト信号を送信することで、ケース３０内に収容されているサブキーと車両１０との間で無線通信を行うことが可能となっている。

【００１８】

図３は、こうした電子キーシステムのシステム構成をブロック図として示したものであり、次に、この図３を参照して、本実施形態にかかる電子キーシステムの動作を具体的に説明する。

【００１９】

例えばいま、車両１０の室外送信装置１１から通信可能エリアＡにリクエスト信号が発せられているとするときに、車両オーナが所持するマスターキー２１がこの通信可能エリアＡに進入したとすると、次のような態様にて車両１０とマスターキー２１との間での信号授受が実行される。すなわちこの電子キーシステムでは、車両１０の室外送信装置１１から送信されたリクエスト信号がマスターキー２１の受信装置２１ａにより受信されるとともに、このリクエスト信号がマスターキー２１の制御装置２１ｃに伝達される。マスターキー２１の制御装置２１ｃは、こうしたリクエスト信号の伝達に基づき、内蔵するメモリに記憶されているＩＤコードＩＤＡを含む応答信号を生成してこれをマスターキー２１

の送信装置２１ｂに伝達するとともに、この応答信号を上記車両１０に送信する。このようにして応答信号が送信されることにより、上記車両の受信装置１３はこれを受信するとともに、受信した応答信号を上記車両側制御装置１４に伝達する。これにより車両側制御装置１４は、前述のように、伝達された応答信号に含まれるＩＤコードＩＤＡと上記ＩＤコードデータベース１４ａに登録されたＩＤコードとの照合を行い、この照合を通じてマスターキー２１の認証が行われると、制御対象であるドアロック機構１５を通じた車両ドアのアンロックなどを実行する。なお、サブキー２２，２３も、マスターキー２１と同様に、受信装置２２ａ，２３ａ、送信装置２２ｂ，２３ｂ、及び制御装置２２ｃ，２３ｃをそれぞれ有しており、こうした一連の動作を同様に行う。

【００２０】

一方、例えばいま、貸出中であった第１のサブキー２２が車両オーナに返却されたとしたときに、車両オーナがマスターキー２１を所持した状態で上記通信可能エリアＢ内に進入し、カーナビゲーション装置４０を通じて第１のサブキー２２のＩＤコードＩＤＢを無効にする操作を行ったとする。このとき、この電子キーシステムでは、ＩＤコードＩＤＢを無効にする操作が行われた旨がカーナビゲーション装置４０から車両側制御装置１４に伝達され、車両側制御装置１４は、この伝達された情報、及びマスターキー２１が上記通信可能エリアＢ内に位置しているといった情報に基づいて、上記ＩＤコードデータベース１４ａに登録された識別コードのうちのＩＤコードＩＤＢを無効に設定する。そして、車両側制御装置１４では、上記応答信号に含まれるＩＤコードの照合を通じた電子キーの認証の際に、認証された電子キーが上記無効とされるＩＤコードＩＤＢを有する第１のサブキー２２である旨を判断したとき、上記ドアロック機構１５を通じた車両ドアのアンロックなどの実行を禁止する。これにより、第１のサブキー２２の認証に基づく車両制御にかかる各種処理が完全に禁止され、第１のサブキー２２の機能が無効になる。ちなみに、この電子キーシステムでは、マスターキー２１を所持した車両オーナが、上記通信可能エリアＢ内に位置している状態で、カーナビゲーション装置４０を通じて第１のサブキー２２のＩＤコードＩＤＢを有効にする操作を行ったとすると、ＩＤコードデータベース１４ａに登録されたＩＤコードのうちのＩＤコードＩＤＢが無効から有効へと切り替わり、第１のサブキー２２の機能が有効になる。同様に、マスターキー２１を所持した車両オーナがカーナビゲーション装置４０を通じて第２のサブキー２３のＩＤコードＩＤＣを有効／無効にする操作を行ったとすると、第２のサブキー２３の機能も有効／無効になる。

【００２１】

ところで、こうしたサブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣを有効／無効にする操作が車両オーナによる操作である場合、車両オーナが、例えば第１のサブキー２２の返却時にＩＤコードＩＤＢを無効にする操作を忘れてそのまま第１のサブキー２２をグローブボックス１６に収容してしまうような状況も想定される。すなわち、このような状況にあっては、第１のサブキー２２を盗難した第三者がこれを不正に使用するなどの懸念がある。

【００２２】

そこで、上記車両側制御装置１４では、上記サブキー検出スイッチ３３，３４のオン／オフ情報、及び上記ケース内送信装置３５からのリクエスト信号の送信の制御を通じて、上記ケース３０内にサブキー２２，２３のいずれか一方が収容された際に、ケース３０内に収容されているサブキーのＩＤコードを自動的に無効にするようにしている。

【００２３】

図４は、ケース３０に収容されたサブキーのＩＤコードを自動的に無効にする処理について、車両側制御装置１４を通じて実行される処理の手順をフローチャートとして示したものであり、次に、この図４を参照して同処理の具体的な手順を説明する。なお、図４に示す処理は、上記ケース３０からサブキー２２，２３の少なくとも一方が取り出されているときに所定の演算周期をもって繰り返し実行される。

【００２４】

同図４に示されるように、この処理では、はじめに、上記サブキー検出スイッチ３３，

３４のオン／オフ情報に基づき、ケース３０にサブキー２２，２３のいずれか一方が収容されたか否かが判断される（ステップＳ１０）。具体的には、サブキー検出スイッチ３３，３４のいずれか一方がオフ状態からオン状態となった旨が検出されたとき、ケース３０にサブキー２２，２３のいずれか一方が収容された旨が判断される。そして、ケース３０にサブキー２２，２３のいずれか一方が収容された旨が検出された場合には（ステップＳ１０：ＹＥＳ）、ケース内送信装置３５から上記通信可能エリアＣに所定の周期でリクエスト信号が送信されるとともに（ステップＳ１１）、このリクエスト信号に対して応答信号を受信することができたか否かが判断される（ステップＳ１２）。ちなみに、このステップＳ１２の処理において、応答信号を受信することができないまま（ステップＳ１２：ＮＯ）、ステップＳ１５の処理においてリクエスト信号を所定回数送信した旨が判断された場合には（ステップＳ１５：ＹＥＳ）、同処理はそのまま終了される。

【００２５】

一方、ステップＳ１２の処理を通じて、応答信号を受信することができた旨が判断された場合には（ステップＳ１２：ＹＥＳ）、応答信号に含まれるＩＤコードと上記ＩＤコードデータベース１４ａに登録されたＩＤコードとの照合を行い、この照合を通じて、ケース３０内のサブキーの収容情報が取得される（ステップＳ１３）。このステップＳ１３の検出処理は、具体的には、以下の（ａ１）～（ａ３）に示す処理として行われる。

【００２６】

（ａ１）応答信号にＩＤコードＩＤＢが含まれていた場合。この場合には、ケース３０内に第１のサブキー２２が収容されているといった情報が取得される。

（ａ２）応答信号にＩＤコードＩＤＣが含まれていた場合。この場合には、ケース３０内に第２のサブキー２３が収容されているといった情報が取得される。

【００２７】

（ａ３）応答信号にＩＤコードＩＤＢ，ＩＤＣの両方が含まれていた場合。この場合には、ケース３０内に第１及び第２のサブキー２２，２３が両方とも収容されているといった情報が取得される。

【００２８】

（ａ４）応答信号にＩＤコードＩＤＢ，ＩＤＣのいずれのＩＤコードも含まれていなかった場合。この場合には、ケース３０内に第１及び第２のサブキー２２，２３が収容されていないといった情報が取得される。

【００２９】

すなわち、このステップＳ１３の処理は、ケース３０内に収容されているサブキーの情報を、ケース３０に収容されているサブキーと車両１０との間の無線通信を利用して取得する処理である。そして、続くステップＳ１４の処理として、このステップＳ１３を通じて取得されたケース３０内のサブキーの収容情報に基づいて、ケース３０内に収容されているサブキーのＩＤコードが上記ＩＤコードデータベース１４ａにおいて無効とされる。このステップＳ１４の処理は、具体的には、以下の（ｂ１）～（ｂ４）に示す処理として行われる。

【００３０】

（ｂ１）ステップＳ１３の処理で上記（ａ１）に示す情報が取得されいた場合には、上記ＩＤコードデータベース１４ａにおいてＩＤコードＩＤＢを無効に設定する。

（ｂ２）ステップＳ１３の処理で上記（ａ２）に示す情報が取得されいた場合には、上記ＩＤコードデータベース１４ａにおいてＩＤコードＩＤＣを無効に設定する。

【００３１】

（ｂ３）ステップＳ１３の処理で上記（ａ３）に示す情報が取得されいた場合には、上記ＩＤコードデータベース１４ａにおいてＩＤコードＩＤＢ，ＩＤＣの両方を無効に設定する。

【００３２】

（ｂ４）ステップＳ１３の処理で上記（ａ４）に示す情報が取得されいた場合には、上記ＩＤコードデータベース１４ａの情報をそのまま維持する。

すなわち、このステップＳ１４の処理は、ケース３０に収容されているサブキーのＩＤコードのみを無効にする処理である。そして、このステップＳ１４の処理の後、車両側制御装置１４は、この一連の処理を一旦終了する。

【００３３】

電子キーシステムとしてのこうした構成によれば、車両オーナがサブキー２２，２３をケース３０に収容する際に、サブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣを無効にする操作を忘れたとしても、サブキー２２，２３がケース３０に収容されたときに自動的にそれらのサブキー２２，２３の機能が無効になる。このため、上記第三者によるサブキー２２，２３の不正使用を好適に防止することができるようになり、ひいては電子キーシステムのセキュリティレベルを高く維持することができるようになる。

【００３４】

ところで、こうした電子キーシステムでは、ケース３０にサブキー２２，２３のいずれか一方が収容された際に、サブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣの両方を無効にするといった処理を行うといった手法も考えられるが、このような処理を行った場合には、以下のような不都合が懸念される。まず、例えばサブキー２２，２３の両方が貸し出されているとしたときに、第１のサブキー２２のみが返却されて、車両オーナがこの返却された第１のサブキー２２をケース３０に収容したとする。このとき、貸出中の第２のサブキー２３のＩＤコードＩＤＢが無効になってその機能が制限されてしまうと、第２のサブキー２３が突然使用することができなくなるなどの不都合が生じるおそれがある。この点、本実施形態にかかる電子キーシステムでは、ケース３０に第１のサブキー２２が収容されたときには、第１のサブキー２２のＩＤコードＩＤＢのみが無効になるため、貸出中の第２のサブキー２３が突然使用することができなくなるなどの不都合を回避することができ、ひいては第２のサブキー２３の利便性をそのまま維持することができるようになる。

【００３５】

以上説明したように、本実施形態にかかる車両の電子キーシステムによれば、以下のような効果が得られるようになる。

（１）車両にサブキー２２，２３を収容するためのケース３０を設けた上で、サブキー２２，２３がケース３０に収容されたとき、これらのサブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣを無効にすることで、サブキー２２，２３の認証に基づく上記車両ドアのアンロックなどの実行を強制的に禁止するようにした。これにより、車両オーナがサブキー２２，２３をケース３０に収容する際に、これらのサブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣを無効にする操作を忘れたとしても、ケース３０にサブキー２２，２３が収容されたときに自動的にそれらのＩＤコードＩＤＢ，ＩＤＣが無効になる。したがって、上記第三者によるサブキー２２，２３の不正使用を好適に防止することができるようになり、ひいては電子キーシステムのセキュリティレベルを高く維持することができるようになる。

【００３６】

（２）サブキー２２，２３と車両１０との間の無線通信を通じて、ケース３０内のサブキーの収容情報を取得するとともに、取得したケース３０内のサブキーの収容情報に基づいて、ケース３０内に収容されているサブキーのＩＤコードのみを無効にするようにした。これにより、例えばケース３０に第１のサブキー２２が収容されたときには、第１のサブキー２２のＩＤコードのみが無効になるため、貸出中の第２のサブキー２３が突然使用することができなくなるなどの不都合を回避することができ、第２のサブキー２３の利便性をそのまま維持することができるようになる。

【００３７】

なお、上記実施形態は、これを適宜変更した以下の形態にて実施することもできる。

・上記実施形態では、サブキーが２つの電子キーから構成されていたが、１つの電子キー、あるいは３つ以上の電子キーから構成されていてもよい。また、こうしたサブキーの数に応じて、上記ケースの収容空間の数を増減させてもよい。

【００３８】
・上記実施形態では、マスターキー２１及びサブキー２２，２３の認証に基づく車両制御として、ドアロック機構１５を通じた車両ドアをアンロックする制御などを例示したが、例えばドアロック機構１５を通じて車両ドアをロックする制御や、車両のトランクドアをアンロックする制御などを採用するようにしてもよい。
【００３９】
・上記実施形態では、サブキー検出スイッチ３３，３４を、接触式のスイッチとして構成するようにしたが、例えば磁気抵抗効果素子などの磁気検出素子を利用した非接触式のスイッチとして構成するようにしてもよい。
【００４０】
・上記実施形態では、サブキー２２，２３を収容するための収容部としてのケース３０を、グローブボックス１６内に設けるようにしたが、これに代えて、例えば車両のコンソールボックス内など、車両の乗員から見えにくい適宜の場所に設けるようにしてもよい。
【００４１】
・上記実施形態では、サブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣを無効にする操作として、カーナビゲーション装置４０に対する操作を採用するようにした。これに代えて、例えばサブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣを有効／無効を操作するための専用の装置を車室内のセンターコンソールに設けた上で、この専用の装置に対する装置を採用するようにしてもよい。
【００４２】
・上記実施形態では、サブキー２２，２３と車両１０との間のリクエスト信号及び応答信号の授受を利用して、ケース３０内に収容されているサブキーのＩＤコードを検出するようにした。これに代えて、例えばサブキー２２，２３がトランスポンダ機能を有している場合には、サブキー２２，２３と車両１０との間のトランスポンダ通信を利用してケース３０内に収容されているサブキーのＩＤコードを検出するようにしてもよい。
【００４３】
・上記実施形態では、サブキー２２，２３がケース３０内に収容されたときに、ケース３０に収容されているサブキーのＩＤコードのみを無効にするようにしたが、サブキー２２，２３の使用環境によっては、ケース３０に収容されているか否かにかかわらず、サブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣを両方とも無効にするようにしてもよい。
【００４４】
・上記実施形態では、マスターキー２１やサブキー２２，２３といった電子キー２０の認証が、ＩＤコードの照合を利用して行われるものであった。これに代えて、例えば車両１０と電子キー２０との間で互いに共通する暗号鍵を持ち合い、乱数データ（チャレンジコード）を暗号鍵で暗号化した結果を交換することにより認証を行う、いわゆるチャレンジ・レスポンス認証を利用するようにしてもよい。
【００４５】
・上記実施形態では、サブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣを無効にする操作が行われたときに、同サブキー２２，２３の認証に基づく上記車両ドアのアンロックの実行などの車両制御にかかる各種処理を完全に禁止するようにした。これに代えて、例えば、サブキー２２，２３のＩＤコードＩＤＢ，ＩＤＣを無効にする操作が行われたときに、上記車両ドアのアンロックにかかる処理は行うが、エンジンの始動許可にかかる処理は行わないなど、車両制御にかかる各種処理の実行を制限するようにしてもよい。
【００４６】
・上記実施形態では、サブキー２２，２３が、カーナビゲーション装置４０の使用許可にかかる処理の実行等に制限の設けられたものであったが、例えば、カーナビゲーション装置４０の使用許可にかかる処理の実行などを含め、車両制御にかかる各種処理を総括的に実行することのできるものであってもよい。要は、上記カーナビゲーション装置４０などの操作を通じて、サブキー２２，２３の認証に基づく車両制御にかかる各種処理の実行の制限とその制限の解除とが実行されるものであればよい。

（付記）

次に、上記実施形態及びその変形例から把握できる技術的思想について追記する。

【００４７】

（イ）請求項１～３のいずれか一項に記載の車両の電子キーシステムにおいて、前記車載装置に対する所定の操作が、前記車両に搭載されるカーナビゲーション装置に対する操作であることを特徴とする車両の電子キーシステム。具体的には、付記イに記載の発明によるように、車載装置に対する所定の操作としては、例えば車両に搭載されるカーナビゲーション装置に対する操作を採用することができる。

【００４８】

（ロ）請求項１～３、及び付記イのいずれか一項に記載の車両の電子キーシステムにおいて、前記収容部は、車両のグローブボックス内に設けられるとともに、前記サブキーが挿入される部分となる収容空間を有する箱体として形成されてなることを特徴とする車両の電子キーシステム。具体的には、付記ロに記載の発明によるように、収容部を、車両のグローブボックス内に設けるとともに、サブキーが挿入される部分となる収容空間を有する箱体として形成するといった構成を採用することができる。

【００４９】

（ハ）付記ロに記載の車両の電子キーシステムにおいて、前記収容部には、前記サブキーの前記収容空間への挿入に伴ってオン状態となるサブキー検出スイッチが設けられてなり、前記サブキーが前記収容部に収容されたことが、前記サブキー検出スイッチを通じて検出されることを特徴とする車両の電子キーシステム。具体的には、付記ハに記載の発明によるように、収容部にサブキーの収容空間への挿入に伴ってオン状態となるサブキー検出スイッチを設けた上で、サブキーが収容部に収容されたことをサブキー検出スイッチを通じて検出するといった構成を採用することができる。

【００５０】

（ニ）請求項１～３、及び付記イ～ハのいずれか一項に記載の車両の電子キーシステムにおいて、前記車両制御が、車両ドアをロック／アンロックする制御であることを特徴とする車両の電子キーシステム。具体的には、請求項ニに記載の発明によるように、車両制御として、例えば車両ドアをロック／アンロックする制御を採用することができる。

【図面の簡単な説明】

【００５１】

【図１】本発明にかかる車両の電子キーシステムの一実施形態についてその概要を模式的に示す平面図。

【図２】同実施形態の車両の電子キーシステムのサブキーを収容するケースについてその断面構造を示す断面図。

【図３】同実施形態の車両の電子キーシステムについてそのシステム構成を示すブロック図。

【図４】同実施形態の電子キーシステムによるサブキーのＩＤコードを無効にする処理についてその処理手順を示すフローチャート。

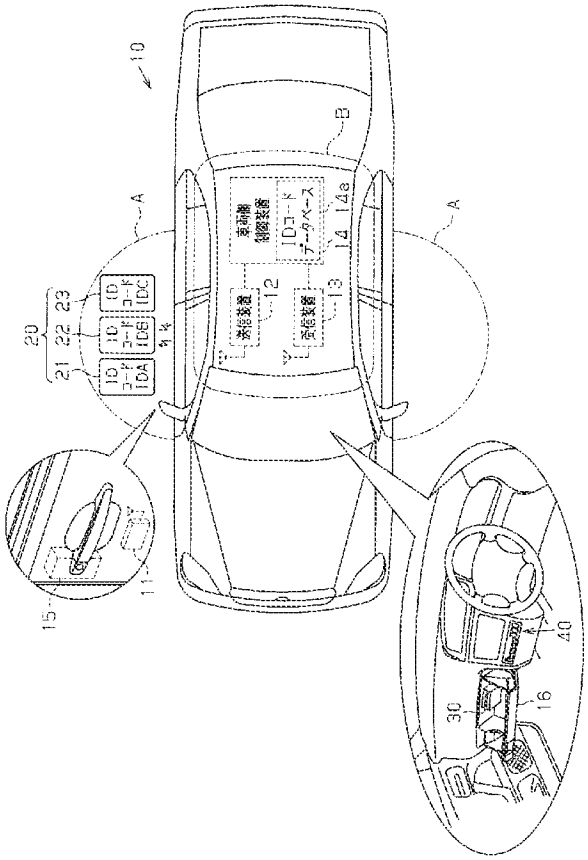
【図５】従来一般に採用されている電子キーシステムの概要を模式的に示す平面図。

【符号の説明】

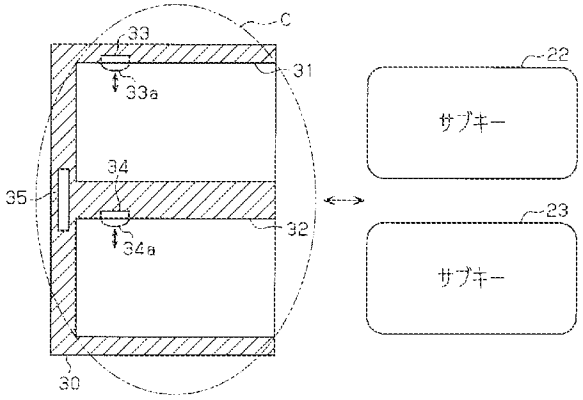
【００５２】

ＩＤＡ，ＩＤＢ，ＩＤＣ…識別コード（ＩＤコード）、１０…車両、１１…室外送信装置、１２…室内送信装置、１３…受信装置、１４…車両側制御装置、１４ａ…ＩＤコードデータベース、１５…ドアロック機構、１６…グローブボックス、２０…電子キー、２１…マスターキー、２１ａ，２２ａ，２３ａ…受信装置、２１ｂ，２２ｂ，２３ｂ…送信装置、２１ｃ，２２ｃ，２３ｃ…制御装置、２２，２３…サブキー、３０…ケース、３１，３２…収容空間、３３，３４…サブキー検出スイッチ、３３ａ，３４ａ…接触部、３５…ケース内送信装置、４０…カーナビゲーション装置。

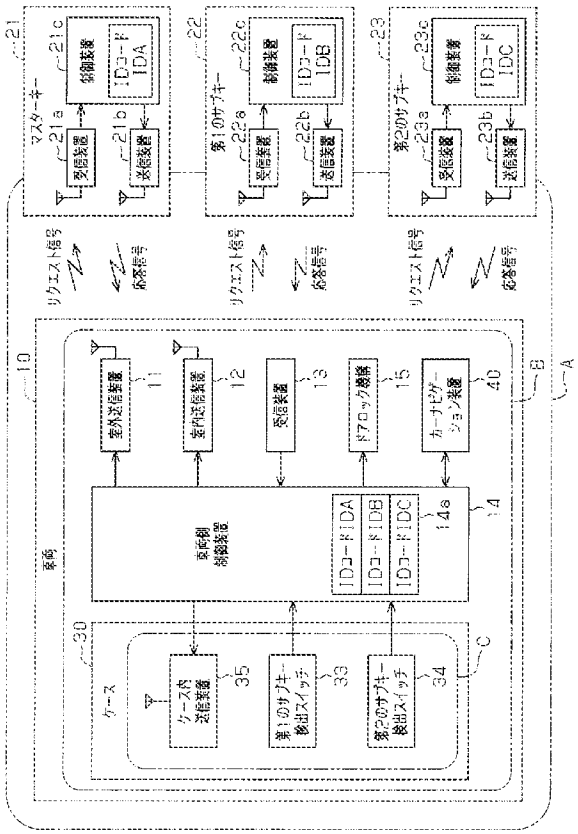
【図１】


10
A
B
車両側制御装置
IDコードデータベース
14
14a
送信装置
12
13
20
21
22
23
IDコードIDA
IDコードIDB
IDコードIDC
11
15
40
16
30

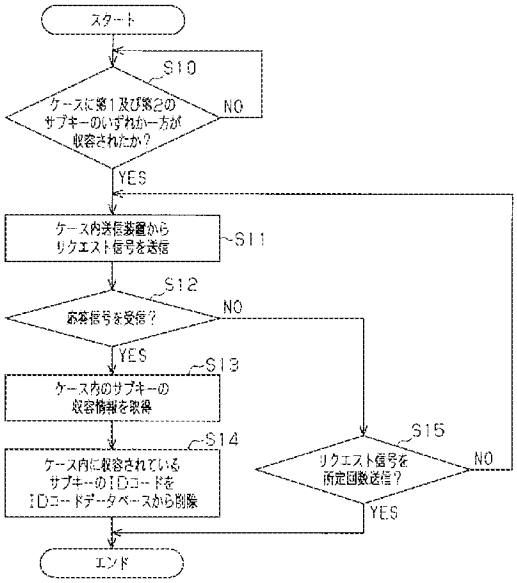
【図２】


C
33
33a
31
34
34a
35
32
30
22
サブキー
23
サブキー

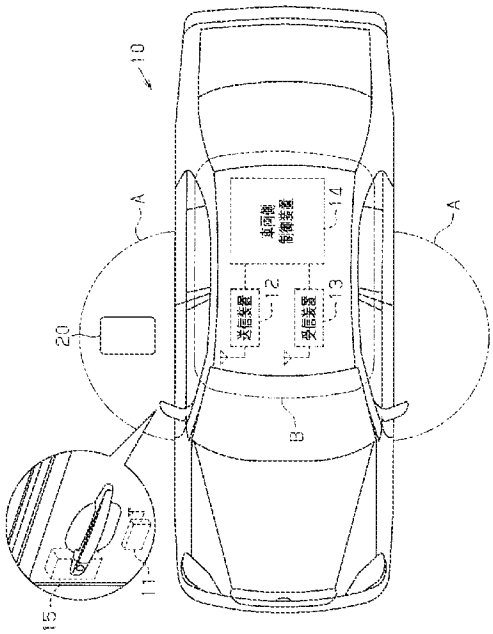
【図３】


21
マスターキー
21a
21b
21c
制御装置
IDコードIDA
受信装置
送信装置
22
第1のサブキー
22a
22b
22c
IDコードIDB
23
第2のサブキー
23a
23b
23c
IDコードIDC
リクエスト信号
応答信号
10
車両
車外送信装置
11
車内送信装置
12
受信装置
13
ドアロック機構
15
カーナビゲーション装置
40
B
A
車両側制御装置
14
14a
30
ケース
ケース内送信装置
35
第1のサブキー検出スイッチ
33
第2のサブキー検出スイッチ
34
C

【図４】


スタート
S10
ケースに第1及び第2のサブキーのいずれか一方が収容されたか？
NO
YES
ケース内送信装置からリクエスト信号を送信
S11
S12
応答信号を受信？
NO
YES
S13
ケース内のサブキーの収容情報を取得
S14
ケース内に収容されているサブキーのIDコードをIDコードデータベースから削除
S15
リクエスト信号を所定回数送信？
NO
YES
エンド

【図５】



フロントページの続き

(72)発明者　岩下　明暁
愛知県丹羽郡大口町豊田三丁目２６０番地　株式会社東海理化電機製作所内

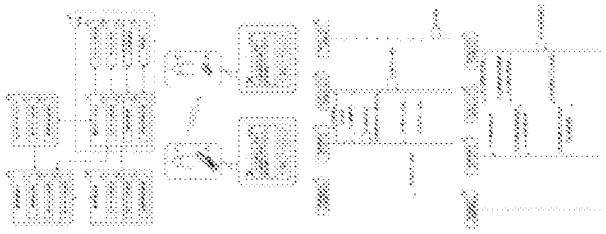
Ｆターム(参考) 2E250 AA21 BB08 BB43 DD06 FF27 FF36 HH01 JJ03 KK03 LL01

Electronic key system – Google Translated

Abstract

<P>PROBLEM TO BE SOLVED: To provide an electronic key system capable of limiting the functions allowed by an electronic false key when the electronic false key is manufactured. <P>SOLUTION: This electronic key system includes a first terminal 10 having a transmission means for transmitting a signal which allows the execution of only a part of a plurality of functions. The electronic false key including the signal which allows the execution of only the part of the functions is transmitted to the other terminal 30. The electronic key system further includes a second terminal 30 having a storage means for recognizing the signal transmitted from the transmission means thereto and storing the recognized signal and capable of executing only the part of the functions according to the signal. The storage means receives the electronic false key including the signal which allows the execution of only the part of the functions from the first terminal 10 and stores the received signal. The execution of the part of the functions is allowed by the stored electronic false key. <P>COPYRIGHT: (C)2010,JPO&INPIT

Images (4)



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Japan

Other languages

Japanese

Inventor

Hiroaki Sekiyama

関山 博明

Keisuke Okamoto

岡本 圭佑

Yoshihiro Oe

大江 義博

Current Assignee

Toyota Motor Corp

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2028-11-26
Anticipated expiration

Info
- Patent citations (3)
- Cited by (25)
- Legal events
- Similar documents
- Priority and Related Applications

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Description

translated from Japanese

本発明の実施形態に係る電子キーシステムにおける電子合鍵の受渡しを示す概略図である。

The present invention relates to an electronic key system.

Conventionally, as a technology in such a field, an electronic key system that performs authentication between a vehicle key and a vehicle by using wireless communication and can execute various operations of the vehicle is known (for example, Patent Document 1). ~ 4). In the technique described in Patent Document 1, by releasing an ID code with an expiration date using a mobile phone separately from a dedicated key, unlocking the vehicle when the dedicated key is not held, and starting the engine is possible.

In the technique described in Patent Document 2, a key code necessary for the operation of the remote operation target is transmitted to the wireless portable terminal, and locking and unlocking are performed using the wireless portable terminal that has received the key code. , Limiting users. In the technique described in Patent Document 3, security is improved when the mobile phone is lost by limiting the number of times the electronic key is operated by the mobile phone. In the technology described in Patent Document 4, security is improved by creating signature data using random numbers when communicating between an electronic key and a vehicle.
JP 2007-137136 A JP 2004-243395 A JP-A-6-243395 JP 2006-9333 A

For example, in valet parking where an employee moves a vehicle to a predetermined position in a parking lot, it may be a security problem to lend a dedicated vehicle key to another person. Further, since

the mobile phone is always carried by the owner, there is a problem that it is difficult to lend a personal mobile phone to another person.

The present invention has been made to solve such a problem, and provides an electronic key system capable of limiting the functions that can be executed by the electronic key when the electronic key is created. For the purpose.

An electronic key system according to the present invention recognizes and recognizes a first terminal having a transmission means for transmitting a signal permitting execution of only a part of a plurality of functions, and a signal transmitted from the transmission means. And a second terminal capable of executing only a part of functions based on the signal.

According to such an electronic key system, since the configuration includes the first terminal including a transmission unit that transmits a signal that permits execution of only a part of the plurality of functions, only the part of the functions is provided. An electronic key including a signal permitting execution can be transmitted to another terminal. Further, according to the electronic key system, the second terminal includes a storage unit that recognizes the signal transmitted from the transmission unit and stores the recognized signal, and can execute only a part of the function based on the signal. Since the electronic key including the signal permitting the execution of only a part of the function is received from the first terminal and stored, only the part of the function is executed with the stored electronic key. Is possible.

Here, the partial function is preferably a function of locking / unlocking the door lock of the vehicle and a function of starting a drive source of the vehicle. As a result, when an electronic key is created, only the door lock / unlock of the vehicle and the start of the drive source of the vehicle can be enabled and other functions cannot be executed. And strengthening protection of personal information. Examples of "other functions" include "trunk unlocking", "console box unlocking", and "electronic devices such as navigation systems".

ADVANTAGE OF THE INVENTION According to this invention, when an electronic key is produced, the electronic key system which can provide a restriction | limiting in the function which can be performed by an electronic key can be provided. Further, in the electronic key system of the present invention, since a function that can be executed by the electronic key combination can be limited, it is possible to realize the electronic key key with improved security performance.

DESCRIPTION OF EXEMPLARY EMBODIMENTS Hereinafter, preferred embodiments of an electronic key system according to the invention will be described with reference to the drawings. In the description of the drawings, the same or corresponding elements are denoted by the same reference numerals, and redundant description is omitted. FIG. 1 is a block diagram showing an electronic key system according to an embodiment of the present invention, and FIG. 2 is a schematic diagram showing delivery of an electronic key in the electronic key system according to the embodiment of the present invention.

The electronic key system shown in FIG. 1 is a keyless entry system using a mobile phone, and unlocks the door lock of the vehicle 40 using the mobile phones 10 and 30 storing key information without owning a dedicated key. It is possible to do. In this electronic key system, as shown in FIG. 2, key information is transferred from a mobile phone A (first terminal) 10 functioning as a parent key to a mobile phone B (second terminal) 30 functioning as an electronic key. It can be sent.

The mobile phone A10 is, for example, a mobile phone of the owner A of the vehicle 40, and functions as a parent key that can execute the functions of the vehicle 40 without restriction. The mobile phone B30 is a mobile phone of the other person B to which an electronic key is lent, and functions as a restricted

electronic key that can execute only some of the plurality of functions of the vehicle 40. . Details will be described later.

As shown in FIG. 1, a vehicle 40 to which the electronic key system of this embodiment is applied controls locking / unlocking (operation permission / operation disapproval) using an electronic key (mobile phone A10, mobile phone B30). An electronic control unit (hereinafter referred to as "electronic key ECU") 41 is provided.

The electronic key ECU 41 includes a CPU that performs arithmetic processing, ROM and RAM serving as a storage unit, an input signal circuit, an output signal circuit, a power supply circuit, and the like, and includes a door lock control unit 51, an engine ECU 52, a trunk room lock control unit 53, an in-vehicle It is electrically connected to the machine 54. In the electronic key ECU 41, an electronic key recognition unit 42, a function restriction unit 43, and a vehicle state detection unit 44 are constructed by executing a program stored in the storage unit. The electronic key ECU 41 can communicate with the mobile phones 10 and 30 and can communicate with the center server 20 of the management center that issues the electronic key.

The electronic key recognition unit 42 reads the key information of the mobile phones 10 and 30 and determines whether or not the electronic key can execute the function of the vehicle 40. The electronic key recognition unit 42 compares the encrypted data stored in the storage unit with the key information read from the mobile phones 10 and 30 to authenticate the electronic key.

Further, the electronic key recognition unit 42 recognizes the key information and determines whether the mobile phone A10 functions as a parent key or the mobile phone B30 functions as a restricted electronic key. That is, the functions that can be executed by the mobile phones 10 and 30 and the use conditions (for example, use time) of the functions are determined.

The functions of the vehicle 40 that can be executed by the electronic key include "door lock locking / unlocking", "engine start permission", "trunk room locking / unlocking", "console box locking / unlocking", "Usage permission of in-vehicle device functioning as car navigation device", "Usage permission of in-vehicle device functioning as communication device capable of transmitting / receiving e-mail" and the like.

The function restriction unit 43 controls execution / non-execution of various functions of the vehicle 40 based on the key information recognized by the electronic key recognition unit 42. The function restriction unit 43 outputs a command signal to the door lock control unit 51 to control locking and unlocking of the door lock. The function restriction unit 43 outputs a command signal to the engine ECU 52 to control engine start permission. The function restriction unit 43 outputs a command signal to the trunk room lock control unit 53 to control locking and unlocking of the trunk room. The function restriction unit 43 outputs a command signal to the in-vehicle device 54 and controls use permission of the in-vehicle device.

The vehicle state detection unit 44 receives signals output from the door lock control unit 51, the engine ECU 52, the trunk room lock control unit 53, and the in-vehicle device 54, and locks / unlocks the door lock, the engine operating status, the trunk room The locked / unlocked state and the operating state of the in-vehicle device 54 can be detected.

The vehicle state detection unit 44 is connected to a vehicle-mounted camera (not shown) and can detect the face of the driver. For example, when the door lock of the vehicle 40 is unlocked using the master key, the driver's face may be detected, and the function of the vehicle 40 may be limited based on the detection result. When the detected driver's face is not registered in the user information, a drive

mode in which usable functions are limited, or a setting in which the engine cannot be started may be used.

In the electronic key system, the management center connected to the network issues an electronic key, monitors the vehicle state of the vehicle 40, and the like. In the server 20 of the management center, an electronic key issuing unit 21 and a vehicle state monitoring unit 22 are constructed.

The electronic key issuing unit 21 generates an electronic key that can be used in the vehicle 40. The electronic key issuing unit 21 generates a restricted electronic key based on the signal output from the mobile phone A10. The generated electronic key and restricted electronic key are transmitted to the mobile phone A10.

The vehicle state monitoring unit 22 acquires information related to the vehicle state of the vehicle 40 based on the signal output from the vehicle 40. The vehicle state monitoring unit 22 outputs information about the acquired vehicle state to the mobile phone A10.

The mobile phone A10 has a call function, a mail transmission / reception function, and a network connection function. In addition, the mobile phone A10 functions as a parent key that can execute the function of the vehicle 40 as described above. In the mobile phone A10, a restriction setting unit 11, an electronic key receiving unit 12, and an electronic key transmitting unit 13 are constructed.

The restriction setting unit 11 can set the functions (partial functions) of the vehicle 40 that can be used by the restricted electronic key based on the operation by the operator. Information regarding the set partial functions is output to the center server 20.

The electronic key receiving unit 12 functions as an electronic key receiving unit that receives an electronic key (key information) output from the center server 20. The electronic key transmitter 13 functions as an electronic key transmitter that transmits key information as a restricted electronic key to the mobile phone B30. In addition, the electronic key transmission unit 13 transmits key information as a parent key to the electronic key ECU 41. The electronic key transmission unit 13 functions as a transmission unit of the present invention that transmits a signal that permits execution of only some of the plurality of functions.

Moreover, in the mobile phone A10, the status of the vehicle 40 can be confirmed via the management center. For example, when the key is used, information on the vehicle state of the vehicle 40 is acquired. In the mobile phone A10, based on the acquired information on the vehicle state, the door opening / closing state, the door lock locked / unlocked state, the engine operating state, the trunk room locking / unlocking state, the in-vehicle unit 54 operating state, the driver You can check the face image.

The cellular phone B30 has a call function, a mail transmission / reception function, and a network connection function. In addition, as described above, the mobile phone B30 functions as a restricted electronic key that can execute part of the functions of the vehicle 40. In the mobile phone B30, an electronic key receiving unit 31, an electronic key transmitting unit 32, and a combined key information storage unit 33 are constructed.

The electronic key receiving unit 31 functions as an electronic key receiving unit that receives an electronic key (key information) output from the mobile phone A10. The electronic key receiving unit 31 receives key information as a restricted electronic key.

The combined key information storage unit 33 functions as a storage unit that stores the received key information. The electronic key transmission unit 32 transmits the key information stored in the combined key information storage unit 33 to 41.

Examples of communication means from the mobile phone A10 to the mobile phone B30 include ad hoc communication such as Bluetooth and infrared, human body communication, and mail attachment.

Next, the operation of the electronic key system according to the embodiment of the present invention will be described. 3 and 4 are flowcharts showing an operation procedure executed in the electronic key system according to the embodiment of the present invention. Step is abbreviated as S.

First, a connection request is made from the mobile phone A10 of the owner (operator) A to the management center (S1). The cellular phone A10 transmits a connection request signal to the management center based on the operation by the operator. Next, the center server 20 of the management center transmits a response signal to the mobile phone A10 in response to a connection request from the mobile phone A10 (S2), and establishes a connection between the mobile phone A10 and the center server 20 (S3). .

Next, the cellular phone A10 sets the restriction items in the restricted electronic key based on the operation by the operator (S4). Here, the functions that can be used, the expiration date, and the like are set by the restricted electronic key.

Subsequently, the mobile phone A10 makes a restricted electronic key issuing request (S5). The cellular phone A10 transmits a restricted electronic key issuing request signal to the management center based on an operation by the operator.

Next, the center server 20 of the management center issues an electronic key that functions as a restricted electronic key in response to a restricted electronic key issuance request from the mobile phone A10 (S6). Here, the electronic key issuing unit 21 of the center server 20 generates key information related to the restricted electronic key according to the restriction items set by the mobile phone A10.

Subsequently, the center server 20 transmits the generated key information to the mobile phone A10, thereby transmitting an electronic key (S7).

Next, the cellular phone A10 transmits the received electronic key to the cellular phone B30 (S8). The band phone A10 transmits key information related to the restricted electronic key to the mobile phone B30 based on an operation by the operator. That is, the electronic key is delivered by transmitting the key information to the mobile phone B30. This eliminates the need to lend a real key.

The cellular phone B30 receives the electronic key by storing the received key information in the key information storage unit 33. When using the electronic key, the key user B operates the mobile phone B30 to transmit key information to the electronic key ECU 41. The cellular phone B30 transmits the key information (electronic key) stored in the key information storage unit 33 to the vehicle 40 based on the operation of the key user B (S9).

The electronic key ECU 41 reads the key information output from the mobile phone B30 and authenticates the electronic key (S10). The electronic key ECU 41 controls locking / unlocking of the door lock, permission of engine start, and the like based on the recognized key information. In addition, functions that cannot be used due to the restricted electronic key (for example, unlocking the trunk room and operating the vehicle-mounted device) remain in an inexecutable state.

Next, a signal relating to the vehicle state (for example, engine start, engine stop, etc.) is transmitted from the vehicle 40 to the management center (S11). The electronic key ECU 41 detects various states of the vehicle 40 and transmits a signal related to the vehicle state to the center server 20 of the management center.

The signal regarding the vehicle state received at the management center is transmitted to the mobile phone A10 (S12). In addition, the management center periodically transmits a signal requesting information on the vehicle state to the vehicle 40 (S13). In response to a request from the management center, the electronic key ECU 41 transmits a signal relating to the vehicle state to the management center (S14).

When the owner A wants to check the state of the vehicle 40, he / she operates the mobile phone A10 to request acquisition of information regarding the vehicle state. In response to the operation by the owner A, the cellular phone A10 transmits a signal requesting information on the vehicle state to the management center (S15).

In response to a request from the mobile phone A10, the management center transmits a signal regarding the vehicle state to the mobile phone A10 (S16).

The electronic key ECU 41 determines whether or not the use period of the restricted electronic joint key has expired, and when the use period has expired, the electronic key ECU 41 is set so that some functions made available by the restricted electronic joint key cannot be used. Change (S17). In addition, the electronic key ECU 41 transmits a signal (use end data) notifying that the use time limit of the restricted electronic key has ended to the management center (S18).

When receiving the use end data, the center server 20 of the management center transmits the received use end data to the mobile phone A10 (S19) and disconnects the connection with the mobile phone A10 (S20).

FIG. 2 shows an example of a display image displayed on the mobile phone A10 and the mobile phone B30 when the restricted electronic key is transmitted from the owner A to the borrower B. For example, on the display screen of the mobile phone A10, a message such as "Send key information has been sent in a setting in which the navigation cannot be used. Expiration date: 3/13 until 17:04" is displayed, and the display screen of the mobile phone B30 Displays a message such as "The key information has been received in a setting in which the navigation cannot be used. Expiration date: 3/13 until 17:04."

According to such an electronic key system, using the mobile phone A10, a restricted electronic key including a signal that permits execution of only a part of a plurality of functions is transmitted to the mobile phone B30. Can do. Further, the cellular phone B30 can recognize the electronic key transmitted from the cellular phone A10, and can execute only a part of the functions of the vehicle 40 based on the received key information of the electronic key. Thus, it is possible to limit the functions that can be executed by the electronic key, and there is no need to lend a master key or an electronic key having the same authority as the master key. Therefore, it is possible to solve the security problem and lend the electronic key to another person. For example, it is particularly effective to use a limited electronic key in valet parking. Also, by lending a restricted electronic key with an expiration date set, there is no need for the borrower to return the key.

In addition, some functions that can be used with a restricted electronic key are limited to functions for locking / unlocking the vehicle door lock and functions for starting the vehicle drive source, and other functions cannot be executed. Can do. Therefore, it is possible to realize an electronic key with improved security function and enhanced protection of personal information. For example, it is possible to solve the problem that, when a vehicle is lent to another person, information on the in-vehicle device can be seen or inside the trunk room can be seen.

In addition, in the conventional electronic key system, the electronic device (terminal) used as the electronic key must be pre-registered as a condition for creating the electronic key, the procedure is complicated, and the electronic key is temporarily lent. There was a problem that it was difficult. In the

electronic key system of the present embodiment, a restricted electronic key can be issued with a simple procedure.

Moreover, in the electronic key system of this embodiment, since the vehicle state of the vehicle 40 can be confirmed during the period in which the electronic key is lent, the owner A can rent the electronic key to another person with peace of mind. Can do.

As mentioned above, although this invention was concretely demonstrated based on the embodiment, this invention is not limited to the said embodiment. In the above embodiment, a terminal that can be used as an electronic key is described as a mobile phone, but other terminals that can communicate with each other may be used.

It is a block block diagram which shows the electronic key system which concerns on embodiment of this invention. It is the schematic which shows delivery of the electronic joint key in the electronic key system which concerns on embodiment of this invention. It is a flowchart which shows the flowchart which shows the operation | movement procedure of the electronic key system which concerns on embodiment of this invention. It is a flowchart which shows the flowchart which shows the operation | movement procedure of the electronic key system which concerns on embodiment of this invention.

Explanation of symbols

DESCRIPTION OF SYMBOLS 10 ... Mobile phone A (1st terminal), 11 ... Restriction setting part, 12 ... Electronic key receiving part, 13 ... Electronic key transmission part, 20 ... Center server, 21 ... Electronic key issuing part, 22 ... Vehicle state monitoring part , 30 ... mobile phone B (second terminal), 31 ... electronic key receiving unit, 32 ... electronic key transmitting unit, 33 ... combination key information storage unit, 40 ... vehicle, 41 ... electronic key ECU, 42 ... electronic key recognizing unit , 43 ... function restriction unit, 44 ... vehicle state detection unit, 51 ... door lock control unit, 52 ... engine ECU, 53 ... trunk room lock control unit, 54 ... in-vehicle device.

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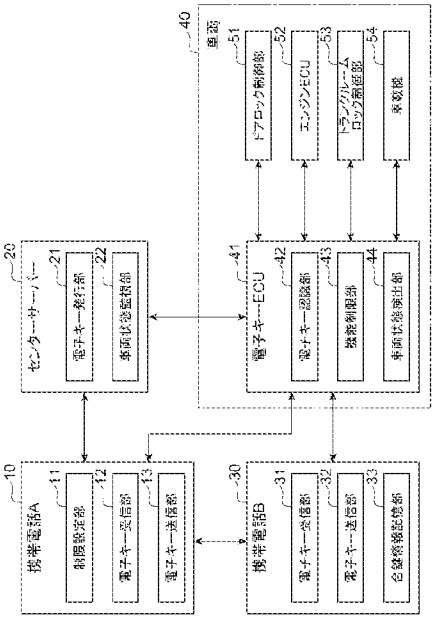
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1．Ｂｌｕｅｔｏｏｔｈ

(71)出願人　000003207
トヨタ自動車株式会社
愛知県豊田市トヨタ町１番地
(74)代理人　100088155
弁理士　長谷川　芳樹
(74)代理人　100113435
弁理士　黒木　義樹
(74)代理人　100116920
弁理士　鈴木　光
(72)発明者　関山　博昭
愛知県豊田市トヨタ町１番地　トヨタ自動車株式会社内
(72)発明者　岡本　圭介
愛知県豊田市トヨタ町１番地　トヨタ自動車株式会社内

最終頁に続く

(54)【発明の名称】電子キーシステム

(57)【要約】
【課題】電子合鍵を作成した場合に、電子合鍵によって実行可能となる機能に制限を設けることが可能な電子キーシステムを提供することを目的とする。
【解決手段】複数の機能のうち、一部機能のみの実行を許可する信号を送信する送信手段を備えた第１端末１０を有する構成とし、一部機能のみの実行を許可する信号を含む電子合鍵を、他の端末３０に対して送信する。さらに、送信手段から送信された信号を認識し、認識した信号を記憶する記憶手段を備え、当該信号に基づいて一部機能のみを実行可能とする第２端末３０を有する構成とし、一部機能のみの実行を許可する信号を含む電子合鍵を、第１端末１０から受信して記憶し、この記憶された電子合鍵によって、一部機能のみの実行が可能となる。
【選択図】図１



【特許請求の範囲】
【請求項１】
複数の機能のうち、一部機能のみの実行を許可する信号を送信する送信手段を備えた第１の端末と、
前記送信手段から送信された前記信号を認識し、認識した前記信号を記憶する記憶手段を備え、前記信号に基づいて前記一部機能のみを実行可能とする第２の端末と、を有することを特徴とする電子キーシステム。
【請求項２】
前記一部機能は、車両のドアロックを施錠／開錠する機能、前記車両の駆動源を始動させる機能であることを特徴とする請求項１記載の電子キーシステム。
【発明の詳細な説明】
【技術分野】
【０００１】
本発明は、電子キーシステムに関する。
【背景技術】
【０００２】
従来、このような分野の技術として、車両キーと車両との間の認証を、無線通信を用いて行い、車両の各種動作を実行可能とする電子キーシステムが知られている（例えば特許文献１～４）。特許文献１に記載の技術では、専用のキーとは別に携帯電話を用いて有効期限付ＩＤコードを発信することで、専用のキーを所持していない場合の車両の施錠解除、及び、エンジン始動を可能としている。
【０００３】
また、特許文献２に記載の技術では、遠隔操作対象の操作に必要となる鍵コードを無線携帯端末に送出し、この鍵コードを受信した無線携帯端末を用いて施錠、開錠を行うことで、利用者を制限している。特許文献３に記載の技術では、携帯電話による電子キーの作動回数に制限を設けることで、携帯電話紛失時のセキュリティー向上を図っている。特許文献４に記載の技術では、電子キーと車両との通信の際に乱数による署名データを作成することで、セキュリティー向上を図っている。
【特許文献１】特開２００７－１３７１３６号公報
【特許文献２】特開２００４－２４３３９５号公報
【特許文献３】特開平６－２４３３９５号公報
【特許文献４】特開２００６－９３３３号公報
【発明の開示】
【発明が解決しようとする課題】
【０００４】
例えば、従業員が駐車場内の所定の位置まで車両を移動させるバレーパーキングなどにおいて、専用の車両キーを他人に貸与することはセキュリティー上の問題となるおそれがあった。また、携帯電話は、所有者が常時携帯することから、個人所有の携帯電話を他人に貸与することは困難であるという問題があった。
【０００５】
本発明は、このような課題を解決するために成されたものであり、電子合鍵を作成した場合に、電子合鍵によって実行可能となる機能に制限を設けることが可能な電子キーシステムを提供することを目的とする。
【課題を解決するための手段】
【０００６】
本発明による電子キーシステムは、複数の機能のうち、一部機能のみの実行を許可する信号を送信する送信手段を備えた第１の端末と、送信手段から送信された信号を認識し、認識した信号を記憶する記憶手段を備え、当該信号に基づいて一部機能のみを実行可能とする第２の端末と、を有することを特徴としている。
【０００７】

このような電子キーシステムによれば、複数の機能のうち、一部機能のみの実行を許可する信号を送信する送信手段を備えた第１の端末を有する構成であるため、一部機能のみの実行を許可する信号を含む電子合鍵を、他の端末に対して送信することができる。また、この電子キーシステムによれば、送信手段から送信された信号を認識し、認識した信号を記憶する記憶手段を備え、当該信号に基づいて一部機能のみを実行可能とする第２の端末を有する構成であるため、一部機能のみの実行を許可する信号を含む電子合鍵を、第１の端末から受信して記憶し、この記憶された電子合鍵によって、一部機能のみを実行することが可能となる。

【０００８】

ここで、一部機能は、車両のドアロックを施錠／開錠する機能、車両の駆動源を始動させる機能であることが好ましい。これにより、電子合鍵を作成した場合に、車両のドアロックを施錠／開錠、及び、車両の駆動源の始動のみを有効とし、その他の機能を実行不可能とすることができるため、セキュリティー機能の向上、個人情報の保護強化を図ることができる。ここでいう「その他の機能」としては、「トランクの開錠」、「コンソールボックスの開錠」、「ナビゲーションシステムなどの電子機器」が挙げられる。

【発明の効果】

【０００９】

本発明によれば、電子合鍵を作成した場合に、電子合鍵によって実行可能となる機能に制限を設けることが可能な電子キーシステムを提供することができる。また、本発明の電子キーシステムでは、電子合鍵によって実行可能となる機能に制限を設けることができるため、セキュリティー性能の向上が図られた電子合鍵を実現することができる。

【発明を実施するための最良の形態】

【００１０】

以下、本発明による電子キーシステムの好適な実施形態について図面を参照しながら説明する。なお、図面の説明において同一または相当要素には同一の符号を付し、重複する説明は省略する。図１は、本発明の実施形態に係る電子キーシステムを示すブロック構成図、図２は、本発明の実施形態に係る電子キーシステムにおける電子合鍵の受渡しを示す概略図である。

【００１１】

図１に示す電子キーシステムは、携帯電話を用いたキーレスエントリーシステムであり、専用キーを所有することなく、鍵情報を記憶した携帯電話１０，３０を用いて、車両４０のドアロックを開錠することが可能なものである。この電子キーシステムでは、図２に示すように、親鍵として機能する携帯電話Ａ（第１の端末）１０から、電子合鍵として機能する携帯電話Ｂ（第２の端末）３０へ、鍵情報を送信可能な構成とされている。

【００１２】

携帯電話Ａ１０は、例えば、車両４０の所有者Ａの携帯電話であり、車両４０の機能を制限無く実行することが可能な親鍵として機能するものである。携帯電話Ｂ３０は、電子合鍵が貸与される他者Ｂの携帯電話であり、車両４０の複数の機能のうちの一部のみを実行することが可能である制限付き電子合鍵として機能するものである。詳しくは後述する。

【００１３】

図１に示すように、本実施形態の電子キーシステムが適用される車両４０は、電子キー（携帯電話Ａ１０，携帯電話Ｂ３０）を用いた施錠／開錠（動作許可／動作不許可）に関する制御を司る電子制御ユニット（以下、「電子キーＥＣＵ」という。）４１を備えている。

【００１４】

電子キーＥＣＵ４１は、演算処理を行うＣＰＵ、記憶部となるＲＯＭ及びＲＡＭ、入力信号回路、出力信号回路、電源回路などにより構成され、ドアロック制御部５１、エンジンＥＣＵ５２、トランクルームロック制御部５３、車載機５４と電気的に接続されている。電子キーＥＣＵ４１では、記憶部に記憶されたプログラムを実行することで、電子キー

認識部４２、機能制限部４３、車両状態検出部４４が構築される。また、電子キーＥＣＵ４１は、携帯電話１０，３０と通信可能であると共に、電子キーの発行を行う管理センターのセンターサーバー２０と通信可能な構成とされている。

【００１５】

電子キー認識部４２は、携帯電話１０，３０の鍵情報を読み取り、車両４０の機能を実行可能な電子キーであるか否かを判定する。電子キー認識部４２は、記憶部に記憶された暗号データと、携帯電話１０，３０から読み取った鍵情報とを照合し、電子キーの認証を行う。

【００１６】

また、電子キー認識部４２は、鍵情報を認識し、親鍵として機能する携帯電話Ａ１０であるか、制限付き電子合鍵として機能する携帯電話Ｂ３０であるかを判定する。すなわち、携帯電話１０，３０によって、実行可能となる機能や、その機能の使用条件（例えば、使用時間）などを判定する。

【００１７】

電子キーによって、実行可能となる車両４０の機能としては、「ドアロックの施錠、開錠」、「エンジン始動許可」、「トランクルームの施錠、開錠」、「コンソールボックスの施錠、開錠」、「カーナビゲーション装置として機能する車載機の利用許可」、「メールなどを送受信可能な通信機器として機能する車載機の利用許可」などが挙げられる。

【００１８】

機能制限部４３は、電子キー認識部４２によって認識された鍵情報に基づいて、車両４０の各種機能の実行可能／実行不可能を制御する。機能制限部４３は、ドアロック制御部５１に指令信号を出力し、ドアロックの施錠、開錠を制御する。機能制限部４３は、エンジンＥＣＵ５２に指令信号を出力し、エンジンの始動許可を制御する。機能制限部４３は、トランクルームロック制御部５３に指令信号を出力し、トランクルームの施錠、開錠を制御する。機能制限部４３は、車載機５４に指令信号を出力し、車載機の利用許可を制御する。

【００１９】

車両状態検出部４４は、ドアロック制御部５１、エンジンＥＣＵ５２、トランクルームロック制御部５３、車載機５４から出力された信号を入力して、ドアロックの施錠／開錠状態、エンジンの動作状況、トランクルームの施錠／開錠状態、車載機５４の動作状況を検出することができる。

【００２０】

車両状態検出部４４は、図示しない車載カメラと接続され、ドライバの顔を検出することができる。例えば、マスターキーを用いて、車両４０のドアロックを開錠した場合に、ドライバの顔を検出し、この検出結果に基づいて、車両４０の機能を制限するようにしてもよい。検出されたドライバの顔が、利用者情報に登録されていない場合に、利用可能な機能が制限されたドライブモード、又は、エンジン始動できないような設定にしてもよい。

【００２１】

電子キーシステムでは、ネットワークに接続された管理センターによって、電子キーの発行、車両４０の車両状態の監視などを行う。管理センターのサーバー２０には、電子キー発行部２１、車両状態監視部２２が構築されている。

【００２２】

電子キー発行部２１は、車両４０で利用可能な電子キーを生成する。電子キー発行部２１では、携帯電話Ａ１０から出力された信号に基づいて、制限付き電子合鍵を生成する。生成された電子キー、制限付き電子合鍵は、携帯電話Ａ１０に送信される。

【００２３】

車両状態監視部２２は、車両４０から出力された信号に基づいて、車両４０の車両状態に関する情報を取得する。車両状態監視部２２では、取得した車両状態に関する情報を携帯電話Ａ１０に出力する。

【００２４】
携帯電話Ａ１０は、通話機能、メール送受信機能、ネットワーク接続機能を有する。また、携帯電話Ａ１０は、上述した通り、車両４０の機能を実行可能な親鍵として機能する。携帯電話Ａ１０では、制限設定部１１、電子キー受信部１２、電子キー送信部１３が構築されている。
【００２５】
制限設定部１１は、操作者による操作に基づいて、制限付き電子合鍵によって利用可能となる車両４０の機能（一部機能）を設定することができる。設定された一部機能に関する情報は、センターサーバー２０に出力される。
【００２６】
電子キー受信部１２は、センターサーバー２０から出力された電子キー（鍵情報）を受信する電子キー受信手段として機能するものである。電子キー送信部１３は、制限付き電子合鍵としての鍵情報を携帯電話Ｂ３０に送信する電子キー送信手段として機能するものである。また、電子キー送信部１３は、親鍵としての鍵情報を電子キーＥＣＵ４１に送信する。電子キー送信部１３は、複数の機能のうち、一部機能のみの実行を許可する信号を送信する本発明の送信手段として機能する。
【００２７】
また、携帯電話Ａ１０では、管理センターを介して、車両４０の状況を確認することができる。例えば、合鍵が使用されている場合に、車両４０の車両状態に関する情報を取得する。携帯電話Ａ１０では、取得した車両状態に関する情報に基づいて、ドアの開閉状態、ドアロックの施錠／開錠状態、エンジンの動作状況、トランクルームの施錠／開錠状態、車載機５４の動作状況、ドライバの顔画像などを確認することができる。
【００２８】
携帯電話Ｂ３０は、通話機能、メール送受信機能、ネットワーク接続機能を有する。また、携帯電話Ｂ３０は、上述した通り、車両４０の機能の一部を実行可能な制限付き電子合鍵として機能する。携帯電話Ｂ３０では、電子キー受信部３１、電子キー送信部３２、合鍵情報記憶部３３が構築されている。
【００２９】
電子キー受信部３１は、携帯電話Ａ１０から出力された電子キー（鍵情報）を受信する電子キー受信手段として機能するものである。電子キー受信部３１では、制限付き電子合鍵としての鍵情報を受信する。
【００３０】
合鍵情報記憶部３３は、受信した鍵情報を記憶する記憶手段として機能するものである。電子キー送信部３２は、合鍵情報記憶部３３に記憶されている鍵情報を４１に送信する。
【００３１】
なお、携帯電話Ａ１０から携帯電話Ｂ３０への通信手段としては、ブルートゥース（Bluetooth）、赤外線などのアドホック（ad hoc）通信、人体通信、メール添付などが挙げられる。
【００３２】
次に、本発明の実施形態に係る電子キーシステムの動作について説明する。図３及び図４は、本発明の実施形態に係る電子キーシステムで実行される動作手順を示すフローチャートである。なお、ステップをＳと略記する。
【００３３】
まず、オーナー（操作者）Ａの携帯電話Ａ１０から管理センターへ接続要求を行う（Ｓ１）。携帯電話Ａ１０は、操作者による操作に基づいて、管理センターへ接続要求信号を送信する。次に、管理センターのセンターサーバー２０は、携帯電話Ａ１０からの接続要求に応じて応答信号を携帯電話Ａ１０に送信し（Ｓ２）、携帯電話Ａ１０とセンターサーバー２０との接続を確立する（Ｓ３）。
【００３４】

次に、携帯電話Ａ１０は、操作者による操作に基づいて、制限付き電子合鍵における制限項目を設定する（Ｓ４）。ここでは、制限付き電子合鍵によって、利用可能となる機能、有効期限等を設定する。

【００３５】

続いて、携帯電話Ａ１０は、制限付き電子合鍵発行要求を行う（Ｓ５）。携帯電話Ａ１０は、操作者による操作に基づいて、管理センターへ制限付き電子合鍵発行要求信号を送信する。

【００３６】

次に、管理センターのセンターサーバー２０は、携帯電話Ａ１０からの制限付き電子合鍵発行要求に応じて制限付き電子合鍵として機能する電子キーを発行する（Ｓ６）。ここでは、センターサーバー２０の電子キー発行部２１が、携帯電話Ａ１０で設定された制限項目に応じて、制限付き電子合鍵に関する鍵情報を生成する。

【００３７】

続いて、センターサーバー２０は、生成された鍵情報を携帯電話Ａ１０へ送信することで、電子キーを送信する（Ｓ７）。

【００３８】

次に、携帯電話Ａ１０は、受信した電子キーを、携帯電話Ｂ３０へ送信する（Ｓ８）。帯電話Ａ１０は、操作者による操作に基づいて、携帯電話Ｂ３０へ制限付き電子合鍵に関する鍵情報を送信する。すわなち、鍵情報を携帯電話Ｂ３０へ送信することで、電子キーの受渡しを行う。これにより、実物の鍵を貸与する必要が無くなる。

【００３９】

携帯電話Ｂ３０は、受信した鍵情報を合鍵情報記憶部３３に記憶することで、電子キーの受取を行う。合鍵利用者Ｂは、電子合鍵を利用する際には、携帯電話Ｂ３０を操作して、鍵情報を電子キーＥＣＵ４１に送信する。携帯電話Ｂ３０は、合鍵利用者Ｂの操作に基づいて、合鍵情報記憶部３３に記憶されている鍵情報（電子キー）を車両４０へ送信する（Ｓ９）。

【００４０】

電子キーＥＣＵ４１は、携帯電話Ｂ３０から出力された鍵情報を読み取り、電子キーの認証を行う（Ｓ１０）。電子キーＥＣＵ４１は、認識した鍵情報に基づいて、ドアロックの施錠／開錠、エンジン始動の許可などを制御する。その他、制限付き電子合鍵によって、利用できない機能（例えば、トランクルームの開錠、車載機の操作）については、実行不可能状態のままとする。

【００４１】

次に、車両４０から管理センターへ、車両状態（例えば、エンジン始動、エンジン停止など）に関する信号を送信する（Ｓ１１）。電子キーＥＣＵ４１は、車両４０の各種状態を検出し、車両状態に関する信号を管理センターのセンターサーバー２０へ送信する。

【００４２】

管理センターで受信した車両状態に関する信号は、携帯電話Ａ１０へ送信される（Ｓ１２）。また、管理センターでは、車両状態に関する情報を要求する信号を定期的に車両４０へ送信する（Ｓ１３）。電子キーＥＣＵ４１は、管理センターからの要求に応じて、車両状態に関する信号を管理センターへ送信する（Ｓ１４）。

【００４３】

また、オーナーＡが車両４０の状態を確認したい場合には、携帯電話Ａ１０を操作して、車両状態に関する情報の取得を要求する。携帯電話Ａ１０は、オーナーＡによる操作に応じて、車両状態に関する情報を要求する信号を管理センターへ送信する（Ｓ１５）。

【００４４】

管理センターは、携帯電話Ａ１０からの要求に応じて、車両状態に関する信号を携帯電話Ａ１０へ送信する（Ｓ１６）。

【００４５】

電子キーＥＣＵ４１は、制限付き電子合鍵の利用期限が終了したか否かを判定し、利用

期限が終了した場合には、制限付き電子合鍵によって利用可能となった一部機能を利用できないように設定変更する（Ｓ１７）。また、電子キーＥＣＵ４１は、制限付き電子合鍵の利用期限が終了したことを報知する信号（使用終了データ）を管理センターへ送信する（Ｓ１８）。

【００４６】

管理センターのセンターサーバー２０は、使用終了データを受信すると、携帯電話Ａ１０へ受信した使用終了データを送信すると共に（Ｓ１９）、携帯電話Ａ１０との接続を切断する（Ｓ２０）。

【００４７】

なお、図２では、制限付き電子合鍵を、オーナーＡから借用者Ｂへ送信した際に、携帯電話Ａ１０、携帯電話Ｂ３０に表示される表示画像の一例を示している。例えば、携帯電話Ａ１０の表示画面には、「ナビを使えない設定で合鍵情報を送信しました。有効期限：３／１３　１７：０４まで。」などのメッセージを表示し、携帯電話Ｂ３０の表示画面には、「ナビを使えない設定で合鍵情報を受信しました。有効期限：３／１３　１７：０４まで。」などのメッセージを表示する。

【００４８】

このような電子キーシステムによれば、携帯電話Ａ１０を用いて、複数の機能のうち、一部機能のみの実行を許可する信号を含む制限付き電子キーを、携帯電話Ｂ３０に対して送信することができる。また、携帯電話Ｂ３０は、携帯電話Ａ１０から送信された電子キーを認識し、受信した電子キーの鍵情報に基づいて車両４０の一部機能のみを実行可能とすることができる。これらによって、電子合鍵によって実行可能となる機能に制限を設けることができ、マスターキーもしくは、マスターキーと同等の権限を持つ電子キーを貸与する必要がなくなる。そのため、セキュリティー上の問題を解決して電子合鍵を他人に貸与することができる。例えば、バレーパーキングなどにおいて、制限付き電子合鍵を用いることは、特に有効である。また、有効期限が設定された制限付き電子合鍵を貸与することで、借用者が合鍵を返却するという動作を行う必要がない。

【００４９】

また、制限付き電子合鍵によって、利用可能となる一部機能を、車両のドアロックを施錠／開錠する機能、車両の駆動源を始動させる機能のみとし、その他の機能を実行不可能とすることができる。そのため、セキュリティー機能の向上、個人情報の保護強化が図られた電子合鍵を実現することができる。例えば、他人に、車両を貸与した場合に、車載機の情報を見られてしまうということや、トランクルームの中を見られてしまうという問題を解決することができる。

【００５０】

また、従前の電子キーシステムでは、電子キーを作成する条件として、電子キーとして利用する電子機器（端末）の事前登録が必要であり、その手順が複雑であり、電子キーを一時的に貸与することは困難であるという問題があった。本実施形態の電子キーシステムでは、簡素な手順で、制限付き電子合鍵を発行することができる。

【００５１】

また、本実施形態の電子キーシステムでは、電子合鍵を貸与している期間に、車両４０の車両状態を確認することができるため、オーナーＡは、安心して、電子合鍵を他者に貸与することができる。

【００５２】

以上、本発明をその実施形態に基づき具体的に説明したが、本発明は、上記実施形態に限定されるものではない。なお、上記実施形態では、電子キーとして利用可能な端末を携帯電話として説明しているが、その他の通信可能な端末でもよい。

【図面の簡単な説明】

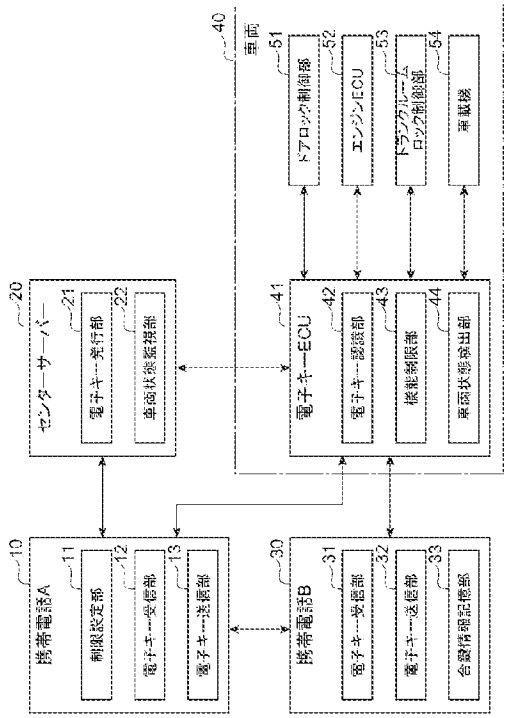
【００５３】

【図１】本発明の実施形態に係る電子キーシステムを示すブロック構成図である。

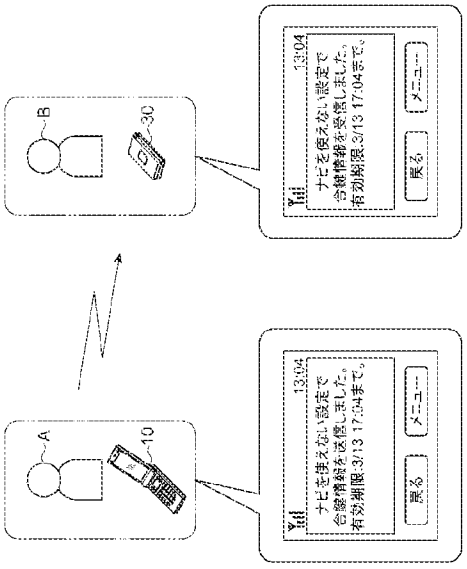
【図２】本発明の実施形態に係る電子キーシステムにおける電子合鍵の受渡しを示す概略

図である。
【図３】本発明の実施形態に係る電子キーシステムの動作手順を示すフローチャート示すフローチャートである。
【図４】本発明の実施形態に係る電子キーシステムの動作手順を示すフローチャート示すフローチャートである。
【符号の説明】
【００５４】
１０…携帯電話Ａ（第１の端末）、１１…制限設定部、１２…電子キー受信部、１３…電子キー送信部、２０…センターサーバー、２１…電子キー発行部、２２…車両状態監視部、３０…携帯電話Ｂ（第２の端末）、３１…電子キー受信部、３２…電子キー送信部、３３…合鍵情報記憶部、４０…車両、４１…電子キーＥＣＵ、４２…電子キー認識部、４３…機能制限部、４４…車両状態検出部、５１…ドアロック制御部、５２…エンジンＥＣＵ、５３…トランクルームロック制御部、５４…車載機。

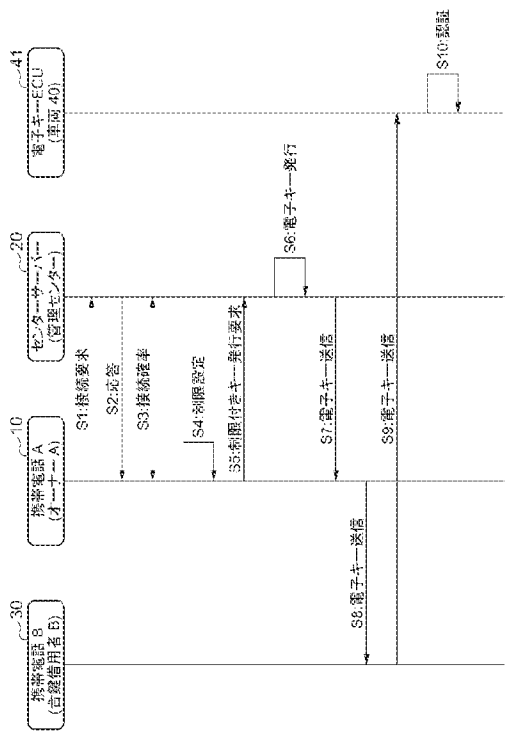
【図１】



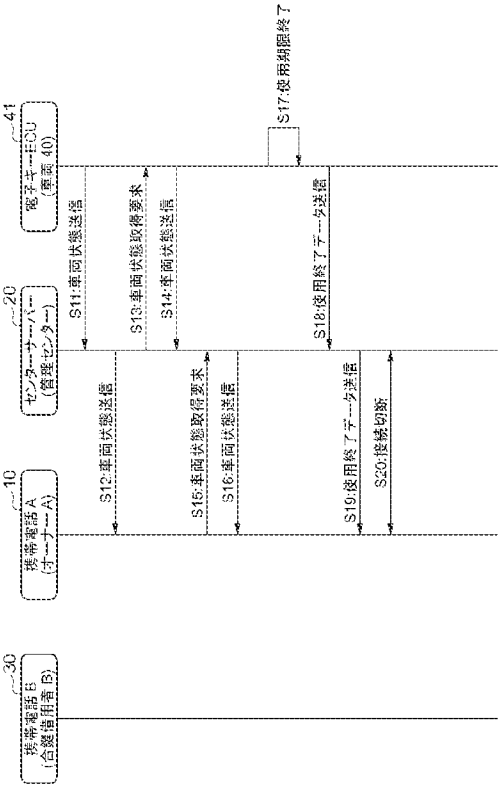
【図２】



【図３】


41
電子キーECU
(車両 40)
20
センターサーバー
(管理センター)
10
携帯電話 A
(オーナーA)
30
携帯電話 B
(合鍵借用者 B)
S1:接続要求
S2:応答
S3:接続確率
S4:制限設定
S5:制限付きキー発行要求
S6:電子キー発行
S7:電子キー送信
S8:電子キー送信
S9:電子キー送信
S10:認証

【図４】


41
電子キーECU
(車両 40)
20
センターサーバー
(管理センター)
10
携帯電話 A
(オーナーA)
30
携帯電話 B
(合鍵借用者 B)
S11:車両状態送信
S12:車両状態送信
S13:車両状態取得要求
S14:車両状態送信
S15:車両状態取得要求
S16:車両状態送信
S17:使用制限終了
S18:使用終了データ送信
S19:使用終了データ送信
S20:接続切断

フロントページの続き

(72)発明者　大栄　義博
愛知県豊田市花本町井前１番地２１　トヨタテクニカルディベロップメント株式会社内

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Inventor

Masashi Nomura

野村 雅士

Current Assignee

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[0001]

TECHNICAL FIELD OF THE INVENTION

The present invention relates to a vehicle electronic key system, a vehicle electronic key server, a vehicle electronic key control method, and a program. In particular, the present invention relates to a vehicle

electronic key system, a vehicle electronic key server, a vehicle electronic key control method, and a program that contribute to smooth vehicle operation in car sharing.
[0002]
[Prior art]
2. Description of the Related Art Conventionally, an attempt has been made to introduce a car sharing program for sharing a car with a plurality of members (for example, see Non-Patent Documents 1 and 2).
[0003]
[Non-patent document 1]
Traffic Ecology and Mobility Foundation, "Car Sharing Social Experiment Page", [online], [Search November 26, 2002], Internet <URL: http: // www. ecomo. or. jp / topix / johounet04. html>
[Non-patent document 2]
Daihatsu Motor Co., Ltd., "car sharing", [online], [searched on November 26, 2002], Internet <http: // www. daihatsu. co. jp / its / sharing / stop. htm>
[0004]
[Problems to be solved by the invention]
However, in a service in which one vehicle is used by a plurality of people, such as car sharing, there has been a problem that as the number of users increases, smooth vehicle operation becomes difficult.
[0005]
Therefore, an object of the present invention is to provide a vehicle electronic key system, a vehicle electronic key server, a vehicle electronic key control method, and a program that can solve the above-mentioned problems. This object is achieved by a combination of features described in the independent claims. The dependent claims define further advantageous embodiments of the present invention.
[0006]
[Means for Solving the Problems]
That is, according to the first embodiment of the present invention, an on-vehicle device for controlling unlocking of an automobile, a user terminal functioning as an electronic key for unlocking the automobile, and a key server for issuing key data of the electronic key are provided. In the vehicle electronic key system, the user terminal transmits the terminal ID for specifying the user terminal, the vehicle ID of the vehicle input from the user who wants to use the vehicle, and the desired use period to the key server, An issuance request unit for requesting issuance of a terminal key, which is key data for distribution to a user terminal, and a server key, which is key data to be held by the key server, and a terminal key is received from the key server and received. A key transmitting / receiving unit for transmitting the terminal key to the vehicle-mounted device when the user uses the car, and the key server receives the terminal ID, the vehicle ID, and the desired use period from the user terminal. Setting the usable period of the vehicle based on the reservation status of the vehicle specified by the vehicle ID and the desired use period, issuing a terminal key and a server key for which authentication is established by verification in the usable period, and issuing the server key The key distribution unit that stores the key and distributes the issued terminal key to the user terminal specified by the terminal ID, and is specified by the received vehicle ID when the vehicle ID and the terminal key are received from the vehicle-mounted device. On the condition that both the server key issued and stored by the key distribution unit and the terminal key received from the vehicle-mounted device are within the usable period, and that the verification is successful as a result of verification, An unlock signal transmitting unit that transmits an unlock signal instructing the unlocking of the terminal to the in-vehicle device specified by the vehicle ID, wherein the in-vehicle device receives the terminal key from the user terminal, Key to vehicle ID Having a transfer unit for transferring the key server together and unlocking unit for unlocking the motor vehicle when receiving the unlock signal from the key server.
[0007]
The key server further has a use record database that stores the use record of the automobile by the user in association with the terminal ID, and the key distribution unit uses the use record database based on the terminal ID received from the user terminal. User's use record may be extracted, and the usable period may be set based on the extracted use record.
[0008]
The usage record is the payment ability of the user based on the payment record of the usage fee of the

vehicle.If the payment record extracted from the use record database is lower than the predetermined standard, the key distribution unit sets the usable period to a certain period. You may set within.
[0009]
The usage record is the accident history of the user.If the key distribution unit determines from the accident record extracted from the use record database that the accident by the user is biased to a specific time zone, the key distribution unit A valid terminal key may be issued in a time zone excluding a specific time zone.
[0010]
The in-vehicle device transmits the mileage in the use to the key server together with the vehicle ID as a use record when the user has finished using the car, and the key server uses the mileage for the use based on the received mileage. May be calculated, and the calculated usage fee may be displayed on the user terminal specified by the terminal ID.
[0011]
The in-vehicle device transmits the current position of the vehicle and the vehicle ID to the key server at the time when the use of the vehicle by the user is completed, and the key server determines that the vehicle identified by the received vehicle ID has the received current position. The fact that the vehicle is parked may be displayed on another user terminal.
[0012]
The in-vehicle device transmits the presence or absence of an accident in the use and the vehicle ID to the key server when the use of the vehicle by the user is completed. The fact that the vehicle specified by the ID cannot be used may be displayed on another user terminal. The in-vehicle device may lock the vehicle when determining that the distance from the user terminal is equal to or greater than a predetermined value.
[0013]
The key server further has a use record database that stores the use record of the automobile by the user in association with the terminal ID, and the key distribution unit uses the use record database based on the terminal ID received from the user terminal. User's use record, and based on the extracted use record, further sets the usable area of the vehicle by the user, issues a valid terminal key in the usable period and the usable area, When the terminal key is received from the user terminal, the current position of the vehicle is transferred to the key server together with the terminal key, and the unlocking signal transmission unit of the key server receives the terminal key and the current position from the transfer unit. At this time, when it is further satisfied that the received current position is within the valid usable area of the terminal key, an unlock signal may be transmitted to the vehicle-mounted device.
[0014]
According to the second aspect of the present invention, an automobile equipped with an in-vehicle device that controls unlocking of an automobile, a user terminal that functions as an electronic key that unlocks the automobile, and a key server that issues key data of the electronic key In an electronic key system, a user terminal transmits a terminal ID for specifying a user terminal, a vehicle ID of a vehicle input by a user who wants to use the vehicle, and a desired period of use to a key server, so that the user terminal can be mounted on the vehicle. An issuance request unit for requesting issuance of an in-vehicle key, which is key data for distribution to a device, and a terminal key, which is key data for distribution to a user terminal, and a terminal key is received from a key server. A key transmitting / receiving unit that transmits the terminal key to the in-vehicle device when the user uses the automobile, and the key server receives a terminal ID, a vehicle ID, and a desired use period from the user terminal. vehicle D. The available period of the vehicle is set based on the reservation status of the vehicle and the desired period of use specified in D. A vehicle key and a terminal key for which authentication is established by verification in the available period are issued, and the vehicle key is assigned to the vehicle ID. And a key distribution unit that distributes the terminal key to the user terminal specified by the terminal ID, and the vehicle-mounted device receives and stores the vehicle-mounted key from the key server. And when the terminal key is received from the user terminal, both the vehicle key stored in the vehicle key storage unit and the terminal key received from the user terminal are within the usable period, and the result of the verification is And an unlocking section for unlocking the vehicle on condition that the authentication is established.

[0015]
According to the third aspect of the present invention, an automobile electronic key server that issues key data of an automobile electronic key includes, from a user terminal of a user who wants to use an automobile, a terminal ID for specifying the user terminal; When the vehicle ID specifying the car and the desired use period are received, the usable period of the car is set based on the reservation status of the car specified by the vehicle ID and the desired use period, and the comparison is performed in the usable period. A key distribution unit that issues a server key and a terminal key for which authentication is established, stores the issued server key, and distributes the issued terminal key to a user terminal specified by the terminal ID; When the terminal key and the vehicle ID are received from the in-vehicle device to be transferred, the server key issued and stored by the key distribution unit for the vehicle specified by the received vehicle ID, and the terminal received from the in-vehicle device Unlock is transmitted to the in-vehicle device specified by the vehicle ID, provided that both are within the usable period and that the authentication is successful as a result of the verification, A signal transmission unit.
[0016]
According to a fourth aspect of the present invention, an in-vehicle device step for controlling unlocking of a vehicle, a user step for obtaining and using an electronic key for unlocking the vehicle, and a server for issuing key data of the electronic key The user step is input from the user to the key server that issues key data, the terminal ID specifying the user terminal of the user who wants to use the vehicle, and the user. By transmitting the vehicle ID of the automobile and the desired use period, an in-vehicle key that is key data for distribution to an in-vehicle device that controls unlocking of the automobile, and a terminal that is key data for distribution for a user terminal An issue requesting step for requesting issuance of a key; and a key transmitting / receiving step for receiving a terminal key from a key server and transmitting the received terminal key to an in-vehicle device when a user uses an automobile. The server step, when receiving the terminal ID, the vehicle ID, and the desired use period from the user terminal, determines the available period of the vehicle based on the reservation status of the vehicle specified by the vehicle ID and the desired use period. Set, issue the in-vehicle key and terminal key that are authenticated by the verification during the usable period, distribute the in-vehicle key to the in-vehicle device specified by the vehicle ID, and send the terminal key to the user terminal specified by the terminal ID. The in-vehicle device step has a distribution step of distributing the in-vehicle key. The in-vehicle key step includes receiving and storing the in-vehicle key from the key server, and storing the in-vehicle key and the user when the terminal key is received from the user terminal. An unlocking step of unlocking the vehicle on condition that both the terminal key received from the terminal is within the usable period and that the authentication is established as a result of the collation.
[0017]
According to the fifth aspect of the present invention, an in-vehicle device step for controlling unlocking of an automobile, a user step for acquiring and using an electronic key for unlocking the automobile, and a server for issuing key data of the electronic key The user step is input from the user to the key server that issues key data, the terminal ID specifying the user terminal of the user who wants to use the vehicle, and the user. An issuance requesting the issuance of a terminal key, which is key data for distribution to a user terminal, and a server key, which is key data to be held by a key server, by transmitting a vehicle ID and a desired use period of an automobile. A requesting step, and a key transmitting and receiving step of receiving the terminal key from the key server and transmitting the received terminal key to an in-vehicle device that controls unlocking of the vehicle when the user uses the vehicle. The server step, when receiving the terminal ID, the vehicle ID, and the desired use period from the user terminal, determines the available period of the vehicle based on the reservation status of the vehicle specified by the vehicle ID and the desired use period. A distribution step of setting, issuing a terminal key and a server key for which authentication is established during the usable period, storing the issued server key, and distributing the issued terminal key to the user terminal specified by the terminal ID When the vehicle ID and the terminal key are received from the in-vehicle device, the server key issued and stored in the distribution step for the vehicle identified by the received vehicle ID and the terminal key received from the in-vehicle device are both An unlock signal for instructing unlocking of the vehicle is transmitted to the on-vehicle device specified by the vehicle ID on condition that the authentication is established within the usable period and the verification result. An unlocking signal transmitting step, wherein the in-vehicle

device step includes, when a terminal key is received from the user terminal, transferring the received terminal key to the key server together with the vehicle ID; and an unlocking signal from the key server. Unlocking the vehicle when the information is received.
[0018]
According to the sixth aspect of the present invention, a program for a computer that issues key data of an electronic key for a vehicle includes, from a user terminal of a user who wants to use the vehicle, a terminal ID for specifying the user terminal; When the vehicle ID specifying the car and the desired use period are received, the usable period of the car is set based on the reservation status of the car specified by the vehicle ID and the desired use period, and the comparison is performed in the usable period. A key distribution function that issues a server key and a terminal key for which authentication is established, stores the issued server key, and distributes the issued terminal key to a user terminal specified by the terminal ID, and a received terminal key that is a vehicle ID. When the terminal key and the vehicle ID are received from the in-vehicle device to be transmitted together with the server key, the key distribution unit issues and stores the server key issued and stored for the vehicle identified by the received vehicle ID, and The unlock signal for instructing the unlocking of the automobile is transmitted to the in-vehicle device specified by the vehicle ID on condition that all of the terminal keys thus obtained are within the usable period and that the authentication is established as a result of the verification. And an unlocking signal transmission function to be performed by the computer.
[0019]
Note that the above summary of the present invention does not list all of the necessary features of the present invention, and a sub-combination of these features may also be an invention.
[0020]
BEST MODE FOR CARRYING OUT THE INVENTION
Hereinafter, the present invention will be described through embodiments of the present invention. However, the following embodiments do not limit the invention according to the claims, and all of the combinations of the features described in the embodiments are described. Is not necessarily essential to the solution of the invention.
[0021]
FIG. 1 shows a configuration of an automobile electronic key system 100 according to the first and second embodiments. The vehicle electronic key system 100 aims at realizing smooth vehicle operation in a service in which one vehicle is used by a plurality of people, such as car sharing. The vehicle electronic key system 100 includes an automobile electronic key system 100 that controls unlocking of the automobile 200, a user terminal 120 that functions as an electronic key that unlocks the automobile 200, A key server 50 is connected to the device 10 and issues key data of an electronic key. The key server 50 is operated by the operating company 132 that provides the car sharing service according to the present embodiment.
[0022]
Further, the automobile electronic key system 100 is connected to the key server 50 via the network 80, and guarantees the credit of the user who wants to join this service. And a mobile phone operator 134 that provides the communication service of the present invention. Furthermore, the vehicle electronic key system 100 may further include a personal computer 130 that accesses a site of the operating company 132 to apply for a subscription to the service and confirm the reservation status of the vehicle.
[0023]
A user who wishes to use the service accesses the homepage of the operating company 132 using the personal computer 130 or the user terminal 120 and applies for a subscription to the service. The insurance company 136 checks the credit status, accident history, and the like of the user who has applied for the service, gives a guarantee, and contacts the operating company 132. The operating company 132 receives the guarantee of the insurance company 136, registers the information of the user, and prepares to provide the service to the user through the homepage. Using the personal computer 130 or the user terminal 120, the user downloads registration information indicating the authority to use the service from the homepage and stores the information in a recording medium such as an IC chip of the user terminal 120.

[0024]
The operating company 132 displays available vehicles and the date and time on a homepage in consideration of the operation status and the reservation status of the managed automobile. The user uses the user terminal 120 or the personal computer 130 to apply for a reservation for the desired automobile 200. The key server 50 distributes valid key data within the reserved period to the user terminal 120, and excludes the reserved automobile 200 from the list of available vehicles. The user terminal 120 stores the distributed key data in a built-in IC chip or the like.
[0025]
The user terminal 120 transmits the stored key data to the in-vehicle device 10 when using the automobile 200 reserved by the user. When the key data transmitted to the vehicle-mounted device 10 is authenticated, the vehicle-mounted device 10 unlocks the automobile 200. The user drives the automobile 200 to the destination, for example, and abandons. If there is no problem in the condition of the abandoned vehicle, the operating company 132 registers the vehicle in a list of vehicles that can be reserved. The operating company 132 transmits billing data corresponding to the usage status of each user to the mobile phone operator 134. The mobile phone operator 134 collects a billing amount according to the billing data received from the operating company 132 at the time of collecting the telephone charge, and pays it to the operating company 132.
[0026]
According to the above-described vehicle electronic key system 100, since the vehicle 200 is unlocked using a valid electronic key within the reserved period, the user continues to use the vehicle 200 beyond the reservation period. Can be prevented. Therefore, the operating company 132 can smoothly operate the vehicle. In addition, since the insurance company 136 guarantees the credit of the user when the user subscribes to the service, the operating company 132 can avoid the risk of non-payment by the user. In addition, since the usage fee of the service can be collected in accordance with the charge of the mobile phone, both the user and the operating company 132 can easily settle the usage fee. That is, according to the vehicle electronic key system 100 according to the present embodiment, a service in which one vehicle is used by a plurality of persons, such as car sharing, can be smoothly operated.
[0027]
FIG. 2 shows an internal configuration of the vehicle electronic key system 100 according to the first embodiment. The user terminal 120 according to the present embodiment transmits, to the key server 50, a terminal ID for specifying the user terminal 120, and a vehicle ID and a desired use period of the vehicle 200 input from a user who wants to use the vehicle 120. By doing so, the issuance request unit 12 for requesting issuance of a terminal key, which is key data for distribution to the user terminal 120, and a server key, which is key data to be held by the key server 50, And a key transmitting / receiving unit for transmitting the received terminal key to the in-vehicle device 10 when the user uses the automobile 200.
[0028]
The key server 50 receives the terminal ID, the vehicle ID, and the desired use period from the reservation unit 16 that manages the reservation for each vehicle and the user terminal 120, and reserves the car 200 specified by the vehicle ID. And setting a usable period of the vehicle 200 based on the desired use period, issuing a terminal key and a server key for which authentication is established by collation in the usable period, storing the issued server key, and storing the issued terminal key. The key distribution unit 18 that distributes to the user terminal 120 specified by the terminal ID and the key distribution unit 18 that receives the vehicle ID and the terminal key from the in-vehicle device 10 for the vehicle 200 specified by the received vehicle ID On condition that both the server key to be issued and stored and the terminal key received from the in-vehicle device 10 are within the usable period, and that the verification is successful, Unlocking signal instructing the unlocking of 200 and a unlocking signal transmission unit 32 for transmitting to the vehicle-mounted device 10 identified by the vehicle ID.
[0029]
Further, the key server 50 has a use record database 30 that stores the use record of the automobile by the user in association with the terminal ID, and the key distribution unit 18 uses the use record database based on the terminal ID received from the user terminal 120. The usage record of the user may be extracted from the record database 30, and the usable period may be set based on the extracted use

record. The use record database 30 may acquire the use record for each user from the mobile phone operator 134 and the insurance company 136. Thereby, the key server 50 can determine a user who has a high risk of hindering the vehicle operation based on the use record, and can set a usable period so as to reduce the risk.

[0030]

Further, the key server 50 has a usage fee calculation unit 34 that calculates a usage fee according to the usage results. The usage fee calculation unit 34 displays the calculated usage fee on the user terminal 120. Further, in order to request the collection of the usage fee, the fee data is transmitted to the mobile phone operator 134.

[0031]

The in-vehicle device 10 includes a transfer unit 40 that transfers the received terminal key to the key server 50 together with the vehicle ID when the terminal key is received from the user terminal 120, and an automobile that receives the unlock signal from the key server 50 And an unlocking section 22 for unlocking the lock 200. The in-vehicle device 10 further includes a positioning unit 42 that measures the position of the vehicle 200 and transmits the position to the transfer unit 40 and the key server 50, an accident detection unit 44 that detects an accident caused by the vehicle 200 and transmits the accident to the key server 50, And a travel distance measurement unit 46 for measuring the travel distance of the key server 200 and transmitting the measured travel distance to the key server 50.

[0032]

Thereby, the in-vehicle device 10 can transmit the operation status of the automobile 200 and the usage record of each user to the key server 50. Thus, the key server 50 can more smoothly operate the vehicle.

[0033]

Further, the in-vehicle device 10 includes a terminal detection unit 48 that transmits a locking signal for locking the automobile 200 to the unlocking unit 22 when detecting that the distance from the user terminal 120 is equal to or greater than a predetermined value. Thus, the vehicle-mounted device 10 locks the vehicle 200 when the user carrying the user terminal 120 is separated from the vehicle 200 by a predetermined distance or more.

[0034]

Therefore, the vehicle electronic key system 100 determines whether or not the user can satisfy the available period and the available area set for each user when the user once leaves the vehicle 200 and tries to get into the vehicle 200 again. Check again. As a result of the confirmation, if any of the conditions is not satisfied, the vehicle 200 is not unlocked, and the unsatisfied condition is displayed on the user terminal 120 as an error message.

[0035]

The recording medium 60 stores a program that causes the key server 50 to operate the reservation unit 16, the key distribution unit 18, the usage record database 30, the unlock signal transmission unit 32, and the usage fee calculation unit 34. As another method, the key server 50 may acquire such a program via a communication line.

[0036]

As described above, according to the vehicle electronic key system 100 according to the first embodiment, the unlocking of the vehicle 200 can be controlled according to the available period assigned to each user. Therefore, the operating company 132 can smoothly operate the vehicle. Further, since the key server authenticates the key data, the load on the vehicle-mounted device 10 can be reduced.

[0037]

FIG. 3 shows an internal configuration of an automobile electronic key system 100 according to the second embodiment. This embodiment is the same as the first embodiment described with reference to FIG. 2 except for the following description. The key distribution unit 18 included in the key server 50 issues an in-vehicle key, which is key data for distribution to the automobile 200, instead of the server key in the first embodiment. Then, the issued vehicle-mounted key is distributed to the vehicle-mounted device 10 specified by the vehicle ID.

[0038]

The in-vehicle device 10 receives the in-vehicle key from the key server 50 and stores it. The in-vehicle key

stored in the in-vehicle key storage 20 when the terminal key is received from the user terminal 120 is used. An unlocking unit 22 that unlocks the automobile 200 on condition that both the terminal key received from the user terminal 120 and the terminal key are within the usable period and that the authentication is established as a result of the verification. The information on the available period may be included in the data of the vehicle key and the terminal key, or may be distributed as a separate file together with the vehicle key and the terminal key.

[0039]

According to the vehicle electronic key system 100 according to the present embodiment, the in-vehicle device 10 collates the terminal key received from the user terminal 120 with the in-vehicle key stored in the in-vehicle device. And it is possible to quickly determine whether or not authentication is possible.

[0040]

FIG. 4 is an example of a data format of the usage record database 30. The use record database 30 stores the record of use of the automobile 200 by the user in association with the terminal ID. An example of the terminal ID is a telephone number of a mobile phone. Examples of actual use results are the "number of uses", "total mileage", "accident history", "skill level" of driving, and "payment ability" of the service. The "accident history" includes the "place" and "date and time" of the accident. In addition, the "skill level" is evaluated by, for example, classifying the traveling distance without accident obtained from the traveling history and the accident history. The "payment ability" is evaluated by the operating company 132 based on, for example, the result of paying the use price using this service. Alternatively, the mobile phone operator 134 may evaluate the mobile phone fee based on the payment result of the mobile phone fee and notify the key server 50 of the evaluation.

[0041]

The key server 50 can determine for each user the risk that the user will hinder the smooth operation of the vehicle by referring to such a usage record database 30. Thereby, when the user requests the reservation of the car, the key server 50 can restrict the use conditions for each user in order to reduce the degree of the risk.

[0042]

FIG. 5 is an example of a communication sequence by the in-vehicle device 10, the key server 50, and the user terminal 120 according to the first embodiment. First, when the user operates the user terminal 120 to request issuance of key data (S200), the issuance requesting unit 12 transmits a desired use period, a terminal ID, and a vehicle ID to the key server 50 (S202).). When the key distribution unit 18 of the key server 50 receives the desired use period, the terminal ID, and the vehicle ID from the user terminal 120, the key distribution unit 18 refers to the reservation unit 16 based on the received vehicle ID to reserve the corresponding vehicle. The situation is confirmed (S204).

[0043]

The key distribution unit 18 confirms the usage record of the user by referring to the use record database 30 based on the received terminal ID (S206). Then, based on the desired use period received from the user terminal 120 and the confirmed reservation status and use results, the available period and available area for the user are set (S208).

[0044]

In step 208, the key distribution unit 18 limits the usable period for the user to a certain period, for example, when the payment ability as the usage record is lower than a predetermined standard. When the user's ability to pay is low enough to make the service unsuitable, the key distribution unit 18 may set the usable period to zero. As a result, the risk of non-payment by the user is reduced.

[0045]

In step 208, when the key distribution unit 18 determines that the accident by the user is biased to a specific time zone based on, for example, an accident history as a use record, the key distribution unit 18 determines a time zone excluding the specific time zone. Set as available period. As a result, the possibility of an accident by the user can be reduced, and the risk that the operation of the vehicle is disabled due to the accident can be reduced.

[0046]

In step 208, if the key distribution unit 18 determines that the accident by the user is biased to a specific area based on, for example, an accident history as a use record, the key distribution unit 18 extracts the

area excluding the specific area. Is set as an area that can be used by users. The key distribution unit 18 may set the usable area of the user within a predetermined distance from the home based on the number of times of use, the total mileage, or the skill level as the use result.
[0047]
Next, the key distribution unit 18 issues a server key and a terminal key for which authentication is established by collation in the set available period, available time zone, and available area (S210), and stores the issued server key. On the other hand (S212), the terminal key is distributed to the user terminal 120 specified by the terminal ID (S214).
[0048]
The key transmitting / receiving unit 14 of the user terminal 120 receives the terminal key from the key server 50 and writes the terminal key on a recording medium such as an IC chip. Then, when the user requests to unlock the automobile 200 (S216), the terminal key and the terminal ID are transmitted to the in-vehicle device 10 (S218).
[0049]
The transfer unit 40 of the in-vehicle device 10 transfers the received terminal key, the current position measured by the positioning unit 42, the vehicle ID, and the terminal ID to the key server 50 in response to receiving the terminal key from the user terminal 120. (S220).
[0050]
When receiving the terminal key, the current position, and the vehicle ID from the transfer unit 40, the unlock signal transmission unit 32 of the key server 50 issues the key distribution unit 18 for the automobile 200 specified by the received vehicle ID. When both the server key to be stored and the terminal key received from the in-vehicle device 10 satisfy the usage conditions such as the available period, the available time, and the available area, and as a result of the verification, the authentication is established. (S224: Yes), an unlock signal for instructing unlocking of the automobile 200 is transmitted to the in-vehicle device 10 specified by the vehicle ID (S230). In step 224, when at least one of the use condition and the authentication is not satisfied (S224: No), the unlock signal transmitting unit 32 transmits an error message to the user terminal 120 (S226), and the user terminal 120 An error message is displayed to the user (S228).
[0051]
Upon receiving the unlocking signal from the unlocking signal transmitting unit 32, the unlocking unit 22 of the in-vehicle device 10 unlocks the automobile 200 (S232). Then, the user drives the automobile 200. When the user is likely to violate the assigned availability condition, the in-vehicle device 10 warns the user to comply with the availability condition. The availability condition for each user may be included in the key data, or may be distributed from the key server 50 as separate data associated with the key data.
[0052]
For example, if the driving is continued at a predetermined point in time before the available time zone for each user is exceeded, the in-vehicle device 10 issues a warning to the user that driving should be terminated. Also, when the vehicle 200 is traveling in a direction beyond the available area at a predetermined point just before the driver's available area, the user is requested not to cross the available area. Give a warning. According to such an automobile electronic key system 100, it is possible to prevent a user from violating an availability condition.
[0053]
When the use of the automobile 200 by the user is completed (S234: Yes), the in-vehicle device 10 displays the vehicle ID and the terminal ID, the fact that the use of the automobile 200 by the terminal user is completed, and the actual use result by the user. The data is transmitted to the key server 50 (S236). For example, the mileage measuring unit 46 transmits the mileage as the usage record to the key server 50 together with the vehicle ID and the terminal ID. The vehicle-mounted device 10 locks the vehicle 200 after confirming that the user has left the vehicle 200 (S237).
[0054]
The key server 50 calculates a usage fee for the use based on the received travel distance (S238), transmits the calculated usage fee to the user terminal 120 specified by the terminal ID (S240), and 120 displays the received usage fee (S242). Thus, the user can immediately confirm the usage fee when the use of the automobile 200 ends.

[0055]
In step 236, the key server 50 may receive the current position of the car 200 as the usage record and display on the other user terminal 120 that the car 200 is parked at the received current position. This allows another user to confirm the current position of the automobile 200 from the user terminal 120 when the use by the previous user is completed.
[0056]
In step 236, the key server 50 may receive the presence or absence of the accident as the use result. Then, when the fact that the accident has been received is received, the fact that the vehicle specified by the received vehicle ID cannot be used may be displayed on another user terminal 120. Thus, another user who plans to use the vehicle 200 can move on to the next action, for example, rebooking another vehicle or canceling the use of the vehicle. Finally, the use record database 30 of the key server 50 updates and stores the use record of the user (S244). This ends the communication sequence.
[0057]
According to the communication sequence according to the present embodiment, the use condition for each user is set based on the reservation status and the use record, and the unlocking of the automobile 200 is performed using key data that is valid according to the set use condition. , And the operating company 132 can smoothly operate the automobiles owned.
[0058]
FIG. 6 is an example of a communication sequence by the in-vehicle device 10, the key server 50, and the user terminal 120 according to the second embodiment. First, when issuance of key data is requested (S100), the issuance request unit 12 transmits a desired use period, a terminal ID, and a vehicle ID to the key server 50 (S102). The key distribution unit 18 of the key server 50 refers to the reservation unit 16 based on the received vehicle ID, and checks the reservation status of the automobile 200 (S103). Then, the key distribution unit 18 sets a usable period based on the desired use period and the reservation status (S104). The key distribution unit 18 issues an in-vehicle key and a terminal key that are authenticated by the verification during the set available period (S106), transmits the issued in-vehicle key to the in-vehicle device 10 specified by the vehicle ID, To the user terminal 120 specified by the terminal ID (S108).
[0059]
The in-vehicle key storage unit 20 of the in-vehicle device 10 receives and stores the in-vehicle key from the key server 50 (S110). The key transmitting / receiving unit 14 of the user terminal 120 receives the terminal key from the key server 50, writes the terminal key on a recording medium such as an IC chip, and when the user requests to unlock the automobile 200 (S112), the terminal ID and The terminal key is transmitted to the vehicle-mounted device 10 (S114). In response to receiving the terminal ID and the terminal key from the user terminal 120, the unlocking unit 22 uses both the vehicle key stored in the vehicle key storage unit 20 and the terminal key received from the user terminal 120. If it is within the possible period and the authentication is established as a result of the collation (S116: Yes), the vehicle is unlocked (S118).
[0060]
In step 116, if at least one of the terminal key and the vehicle key is not within the usable period or the authentication is not established as a result of the collation (S 116: No), the unlocking unit 22 transmits an error message to the user terminal 120. (S120). The user terminal 120 that has received the error message from the unlocking unit 22 displays the content of the error message (S122). Subsequent operations are the same as steps 234 to 244 described with reference to FIG. This is the end of the communication sequence.
[0061]
According to the above communication sequence, the in-vehicle device 10 collates the terminal key received from the user terminal 120 with the in-vehicle key stored therein, so that it is not necessary to refer to the key server 50 at the time of collation. Accordingly, the vehicle electronic key system 100 according to the present embodiment can quickly perform user authentication.
[0062]
As described above, the present invention has been described using the embodiments, but the technical scope of the present invention is not limited to the scope described in the above embodiments. Various

changes or improvements can be added to the above embodiment. It is apparent from the description of the appended claims that embodiments with such changes or improvements can be included in the technical scope of the present invention.

[0063]

As is clear from the above description, according to the first and second embodiments of the present invention, in a service in which a single vehicle is used by a plurality of people, such as car sharing, a vehicle that is smooth even if the number of users increases. An automobile electronic key system that can be operated can be provided.

[Brief description of the drawings]

FIG. 1 is a configuration diagram of an automobile electronic key system 100 according to first and second embodiments.

FIG. 2 is a block diagram showing an internal configuration of the vehicle electronic key system 100 according to the first embodiment.

FIG. 3 is a block diagram showing an internal configuration of an automobile electronic key system 100 according to a second embodiment.

FIG. 4 is an example of a data format of a usage record database 30;

FIG. 5 is an example of a communication sequence by the in-vehicle device 10, the key server 50, and the user terminal 120 according to the first embodiment.

FIG. 6 is an example of a communication sequence by the in-vehicle device 10, the key server 50, and the user terminal 120 according to the second embodiment.

[Explanation of symbols]

Reference Signs List 10 in-vehicle device, 12 issuance request unit, 14 key transmission / reception unit, 16 reservation unit, 18 key distribution unit, 20 in-vehicle key storage unit, 22 unlocking unit, 30 usage database, 32 unlocking signal transmission unit, 34 usage charge calculation Unit, 40 transfer unit, 42 positioning unit, 44 accident detection unit, 46 mileage measurement unit, 48 terminal detection unit, 50 key server, 60 recording medium, 80 network, 100 car electronic key system, 120 user terminal, 130 personal Computers, 132 Operating Companies, 134 Mobile Phone Operators, 136 Insurance Companies

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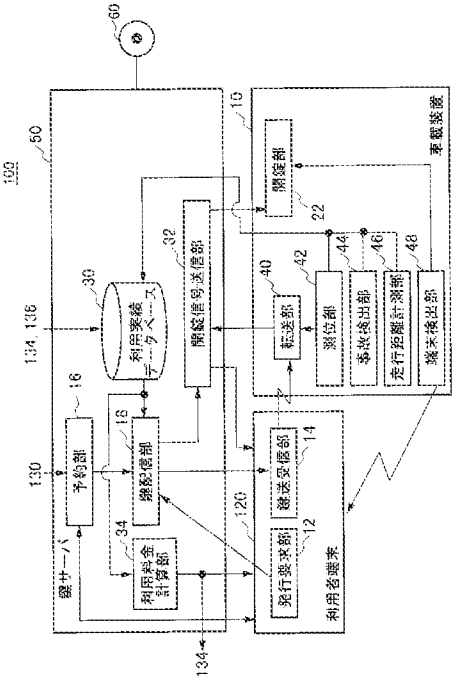
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(71)出願人　399106192
三井住友海上火災保険株式会社
東京都中央区新川２丁目２７番２号
(74)代理人　100104156
弁理士　龍華　明裕
(72)発明者　野村　昌史
東京都中央区新川２丁目２７番２号　三井住友海上火災保険株式会社内

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(54)【発明の名称】自動車電子鍵システム、自動車電子鍵サーバ、自動車電子鍵制御方法、及びプログラム

(57)【要約】
【課題】一台の車両を複数人で使用するカーシェアリング等のサービスにおいて、円滑な車両運営に寄与する電子鍵システムを提供する。
【解決手段】自動車電子鍵サーバは、利用者端末から、端末ＩＤ、車両ＩＤ、及び利用希望期間を受け付けた場合に、車両ＩＤで特定される自動車の予約状況と利用希望期間とに基づいて利用可能期間を設定し、利用可能期間における照合で認証が成立するサーバ鍵及び端末鍵を発行し、サーバ鍵を保管し、端末鍵を端末ＩＤで特定される利用者端末に配信する鍵配信部と、車載装置から端末鍵及び車両ＩＤを受信したときに、車両ＩＤで特定される自動車について鍵配信部が保管するサーバ鍵と、車載装置から受信した端末鍵とがいずれも利用可能期間内であって、かつ照合の結果、認証が成立することを条件として、自動車の開錠を指示する開錠信号を車載装置に送信する開錠信号送信部とを備える。
【選択図】　図２



【特許請求の範囲】
【請求項１】
自動車の開錠を制御する車載装置と、前記自動車を開錠する電子鍵として機能する利用者端末と、前記電子鍵の鍵データを発行する鍵サーバを備える自動車電子鍵システムであって、
前記利用者端末は、
前記利用者端末を特定する端末ＩＤ、並びに前記自動車の利用を希望する利用者から入力される前記自動車の車両ＩＤ及び利用希望期間を前記鍵サーバに送信することにより、前記利用者端末に配信するための鍵データである端末鍵と、前記鍵サーバが保有するための鍵データであるサーバ鍵との発行を要求する発行要求部と、
前記鍵サーバから前記端末鍵を受信し、受信した前記端末鍵を、前記利用者が前記自動車を利用する時に前記車載装置に送信する鍵送受信部と
を有し、
前記鍵サーバは、
前記利用者端末から、前記端末ＩＤ、前記車両ＩＤ、及び前記利用希望期間を受け付けた場合に、前記車両ＩＤで特定される前記自動車の予約状況と前記利用希望期間とに基づいて前記自動車の利用可能期間を設定し、前記利用可能期間における照合で認証が成立する前記端末鍵及び前記サーバ鍵を発行し、発行した前記サーバ鍵を保管し、発行した前記端末鍵を、前記端末ＩＤで特定される前記利用者端末に配信する鍵配信部と、
前記車載装置から前記車両ＩＤ及び前記端末鍵を受信したときに、受信した前記車両ＩＤで特定される前記自動車について前記鍵配信部が発行して保管する前記サーバ鍵と、前記車載装置から受信した前記端末鍵とがいずれも前記利用可能期間内であって、かつ照合の結果、認証が成立することを条件にして、前記自動車の開錠を指示する開錠信号を前記車両ＩＤで特定される前記車載装置に送信する開錠信号送信部と
を有し、
前記車載装置は、
前記利用者端末から前記端末鍵を受信したときに、受信した前記端末鍵を前記車両ＩＤと共に前記鍵サーバに転送する転送部と、
前記鍵サーバから前記開錠信号を受信した場合に前記自動車を開錠する開錠部と
を有することを特徴とする自動車電子鍵システム。
【請求項２】
前記鍵サーバは、前記利用者による前記自動車の利用実績を前記端末ＩＤに対応付けて格納する利用実績データベースを更に有し、
前記鍵配信部は、前記利用者端末から受け付けた前記端末ＩＤに基づいて、前記利用実績データベースから前記利用者の前記利用実績を抽出し、抽出した前記利用実績に更に基づいて、前記利用可能期間を設定することを特徴とする請求項１に記載の自動車電子鍵システム。
【請求項３】
前記利用実績は、前記自動車の利用料金の支払実績に基づく前記利用者の支払能力であり、
前記鍵配信部は、前記利用実績データベースから抽出した前記支払能力が所定の基準よりも低い場合に、前記利用可能期間を一定期間以内に設定することを特徴とする請求項２に記載の自動車電子鍵システム。
【請求項４】
前記利用実績は、前記利用者の事故履歴であり、
前記鍵配信部は、前記利用実績データベースから抽出した前記事故履歴から、前記利用者による事故が特定の時間帯に偏っていると判断した場合に、前記利用可能期間のうち前記特定の時間帯を除いた時間帯において有効な前記端末鍵を発行することを特徴とする請求項２に記載の自動車電子鍵システム。
【請求項５】

前記車載装置は、前記利用者による前記自動車の利用が終了した時点で、当該利用における走行距離を前記利用実績として前記車両ＩＤと共に前記鍵サーバに送信し、
前記鍵サーバは、受信した前記走行距離に基づいて当該利用に対する利用料金を計算し、計算した前記利用料金を、前記端末ＩＤで特定される前記利用者端末に表示することを特徴とする請求項２に記載の自動車電子鍵システム。
【請求項６】
前記車載装置は、前記利用者による前記自動車の利用が終了した時点で、前記自動車の現在位置及び前記車両ＩＤを前記鍵サーバに送信し、
前記鍵サーバは、受信した前記車両ＩＤで特定される自動車が、受信した前記現在位置に駐車されている旨を他の利用者端末に表示することを特徴とする請求項２に記載の自動車電子鍵システム。
【請求項７】
前記車載装置は、前記利用者による前記自動車の利用が終了した時点で、当該利用における事故の有無及び前記車両ＩＤを前記鍵サーバに送信し、
前記鍵サーバは、前記利用において事故があった旨を受信した場合に、前記車両ＩＤで特定される自動車の利用ができない旨を他の利用者端末に表示することを特徴とする請求項２に記載の自動車電子鍵システム。
【請求項８】
前記車載装置は、前記利用者端末との距離が所定値以上であると判断した場合に、前記自動車を施錠することを特徴とする請求項２に記載の自動車電子鍵システム。
【請求項９】
前記鍵サーバは、前記利用者による前記自動車の利用実績を前記端末ＩＤに対応付けて格納する利用実績データベースを更に有し、
前記鍵配信部は、前記利用者端末から受け付けた前記端末ＩＤに基づいて、前記利用実績データベースから前記利用者の前記利用実績を抽出し、抽出した前記利用実績に基づいて、前記利用者による前記自動車の利用可能地域を更に設定し、前記利用可能期間及び前記利用可能地域において有効な前記端末鍵を発行し、
前記車載装置の前記転送部は、前記利用者端末から前記端末鍵を受信したときに、前記端末鍵と共に、前記自動車の現在位置を前記鍵サーバに転送し、
前記鍵サーバの前記開錠信号送信部は、前記転送部から前記端末鍵及び前記現在位置を受信したときに、受信した前記現在位置が、前記端末鍵の有効な前記利用可能地域内であることが更に満たされた場合に、前記車載装置に前記開錠信号を送信することを特徴とする請求項１に記載の自動車電子鍵システム。
【請求項１０】
自動車の開錠を制御する車載装置と、前記自動車を開錠する電子鍵として機能する利用者端末と、前記電子鍵の鍵データを発行する鍵サーバを備える自動車電子鍵システムであって、
前記利用者端末は、
前記利用者端末を特定する端末ＩＤ、並びに前記自動車の利用を希望する利用者から入力される前記自動車の車両ＩＤ及び利用希望期間を前記鍵サーバに送信することにより、前記車載装置に配信するための鍵データである車載鍵と前記利用者端末用に配信するための鍵データである端末鍵との発行を要求する発行要求部と、
前記鍵サーバから前記端末鍵を受信し、受信した前記端末鍵を、前記利用者が前記自動車を利用する時に前記車載装置に送信する鍵送受信部と
を有し、
前記鍵サーバは、
前記利用者端末から、前記端末ＩＤ、前記車両ＩＤ、及び前記利用希望期間を受け付けた場合に、前記車両ＩＤで特定される前記自動車の予約状況と前記利用希望期間とに基づいて前記自動車の利用可能期間を設定し、前記利用可能期間における照合で認証が成立する前記車載鍵及び前記端末鍵を発行し、前記車載鍵を前記車両ＩＤで特定される前記車載装

置に配信し、前記端末鍵を前記端末ＩＤで特定される前記利用者端末に配信する鍵配信部を有し、
前記車載装置は、
前記鍵サーバから前記車載鍵を受信して格納する車載鍵格納部と、
前記利用者端末から前記端末鍵を受信したときに、前記車載鍵格納部に格納された前記車載鍵と前記利用者端末から受信した前記端末鍵とがいずれも前記利用可能期間内であって、かつ照合の結果、認証が成立することを条件にして、前記自動車を開錠する開錠部と
を有することを特徴とする自動車電子鍵システム。
【請求項１１】
自動車用電子鍵の鍵データを発行する自動車電子鍵サーバであって、
前記自動車の利用を希望する利用者の利用者端末から、前記利用者端末を特定する端末ＩＤ、前記自動車を特定する車両ＩＤ、及び利用希望期間を受け付けた場合に、前記車両ＩＤで特定される前記自動車の予約状況と前記利用希望期間とに基づいて前記自動車の利用可能期間を設定し、前記利用可能期間における照合で認証が成立するサーバ鍵及び端末鍵を発行し、発行した前記サーバ鍵を保管し、発行した前記端末鍵を前記端末ＩＤで特定される前記利用者端末に配信する鍵配信部と、
受信した前記端末鍵を前記車両ＩＤと共に転送する車載装置から前記端末鍵及び前記車両ＩＤを受信したときに、受信した前記車両ＩＤで特定される前記自動車について前記鍵配信部が発行して保管する前記サーバ鍵と、前記車載装置から受信した前記端末鍵とがいずれも前記利用可能期間内であって、かつ照合の結果、認証が成立することを条件として、前記自動車の開錠を指示する開錠信号を前記車両ＩＤで特定される前記車載装置に送信する開錠信号送信部と
を備える自動車電子鍵サーバ。
【請求項１２】
自動車の開錠を制御する車載装置ステップと、前記自動車を開錠する電子鍵を取得して使用する利用者ステップと、前記電子鍵の鍵データを発行するサーバステップとを備える自動車電子鍵制御方法であって、
前記利用者ステップは、
前記鍵データを発行する鍵サーバに、前記自動車の利用を希望する利用者の利用者端末を特定する端末ＩＤ、並びに前記利用者から入力される前記自動車の車両ＩＤ及び利用希望期間を送信することにより、前記自動車の開錠を制御する車載装置に配信するための鍵データである車載鍵と、前記利用者端末用に配信するための鍵データである端末鍵との発行を要求する発行要求ステップと、
前記鍵サーバから前記端末鍵を受信し、受信した前記端末鍵を、前記利用者が前記自動車を利用する時に前記車載装置に送信する鍵送受信ステップと
を有し、
前記サーバステップは、
前記利用者端末から、前記端末ＩＤ、前記車両ＩＤ、及び前記利用希望期間を受け付けた場合に、前記車両ＩＤで特定される前記自動車の予約状況と前記利用希望期間とに基づいて前記自動車の利用可能期間を設定し、前記利用可能期間における照合で認証が成立する前記車載鍵及び前記端末鍵を発行し、前記車載鍵を前記車両ＩＤで特定される前記車載装置に配信し、前記端末鍵を前記端末ＩＤで特定される前記利用者端末に配信する配信ステップを有し、
前記車載装置ステップは、
前記鍵サーバから前記車載鍵を受信して格納する車載鍵格納ステップと、
前記利用者端末から前記端末鍵を受信したときに、格納された前記車載鍵と前記利用者端末から受信した前記端末鍵とがいずれも前記利用可能期間内であって、かつ照合の結果、認証が成立することを条件として前記自動車を開錠する開錠ステップと
を有することを特徴とする自動車電子鍵制御方法。
【請求項１３】

自動車の開錠を制御する車載装置ステップと、前記自動車を開錠する電子鍵を取得して使用する利用者ステップと、前記電子鍵の鍵データを発行するサーバステップとを備える自動車電子鍵制御方法であって、
前記利用者ステップは、
前記鍵データを発行する鍵サーバに、前記自動車の利用を希望する利用者の利用者端末を特定する端末ＩＤ、並びに前記利用者から入力される前記自動車の車両ＩＤ及び利用希望期間を送信することにより、前記利用者端末に配信するための鍵データである端末鍵と、前記鍵サーバが保有するための鍵データであるサーバ鍵との発行を要求する発行要求ステップと、
前記鍵サーバから前記端末鍵を受信し、受信した前記端末鍵を、前記利用者が前記自動車を利用する時に前記自動車の開錠を制御する車載装置に送信する鍵送受信ステップと
を有し、
前記サーバステップは、
前記利用者端末から、前記端末ＩＤ、前記車両ＩＤ、及び前記利用希望期間を受け付けた場合に、前記車両ＩＤで特定される前記自動車の予約状況と前記利用希望期間とに基づいて前記自動車の利用可能期間を設定し、前記利用可能期間における照合で認証が成立する前記端末鍵及び前記サーバ鍵を発行し、発行した前記サーバ鍵を保管し、発行した前記端末鍵を、前記端末ＩＤで特定される前記利用者端末に配信する配信ステップと、
前記車載装置から前記車両ＩＤ及び前記端末鍵を受信したときに、受信した前記車両ＩＤで特定される前記自動車について前記配信ステップで発行して保管された前記サーバ鍵と、前記車載装置から受信した前記端末鍵とがいずれも前記利用可能期間内であって、かつ照合の結果、認証が成立することを条件として、前記自動車の開錠を指示する開錠信号を前記車両ＩＤで特定される前記車載装置に送信する開錠信号送信ステップと
を有し、
前記車載装置ステップは、
前記利用者端末から前記端末鍵を受信したときに、受信した前記端末鍵を前記車両ＩＤと共に前記鍵サーバに転送する転送ステップと、
前記鍵サーバから前記開錠信号を受信した場合に前記自動車を開錠する開錠ステップと
を有することを特徴とする自動車電子鍵制御方法。
【請求項１４】
自動車用電子鍵の鍵データを発行するコンピュータ用のプログラムであって、
前記自動車の利用を希望する利用者の利用者端末から、前記利用者端末を特定する端末ＩＤ、前記自動車を特定する車両ＩＤ、及び利用希望期間を受け付けた場合に、前記車両ＩＤで特定される前記自動車の予約状況と前記利用希望期間とに基づいて前記自動車の利用可能期間を設定し、前記利用可能期間における照合で認証が成立するサーバ鍵及び端末鍵を発行し、発行した前記サーバ鍵を保管し、発行した前記端末鍵を前記端末ＩＤで特定される前記利用者端末に配信する鍵配信機能と、
受信した前記端末鍵を前記車両ＩＤと共に転送する車載装置から前記端末鍵及び前記車両ＩＤを受信したときに、受信した前記車両ＩＤで特定される前記自動車について前記鍵配信部が発行して保管する前記サーバ鍵と、前記車載装置から受信した前記端末鍵とがいずれも前記利用可能期間内であって、かつ照合の結果、認証が成立することを条件として、前記自動車の開錠を指示する開錠信号を前記車両ＩＤで特定される前記車載装置に送信する開錠信号送信機能と
を前記コンピュータに実現させることを特徴とするプログラム。
【発明の詳細な説明】
【０００１】
【発明の属する技術分野】
本発明は、自動車電子鍵システム、自動車電子鍵サーバ、自動車電子鍵制御方法、及びプログラムに関する。特に本発明は、カーシェアリングにおける円滑な車両運営に寄与する自動車電子鍵システム、自動車電子鍵サーバ、自動車電子鍵制御方法、及びプログラムに

関する。
【０００２】
【従来の技術】
従来、自動車を複数の会員で共同利用するカーシェアリングプログラムの導入が試みられている（例えば非特許文献１及び非特許文献２参照。）。
【０００３】
【非特許文献１】
交通エコロジー・モビリティー財団、“カーシェアリング社会実験のページ”、［ｏｎｌｉｎｅ］、［平成１４年１１月２６日検索］、インターネット＜ＵＲＬ：ｈｔｔｐ：／／ｗｗｗ．ｅｃｏｍｏ．ｏｒ．ｊｐ／ｔｏｐｉｘ／ｊｏｕｈｏｕｎｅｔ０４．ｈｔｍｌ＞
【非特許文献２】
ダイハツ工業株式会社、“カーシェアリング”、［ｏｎｌｉｎｅ］、［平成１４年１１月２６日検索］、インターネット＜ｈｔｔｐ：／／ｗｗｗ．ｄａｉｈａｔｓｕ．ｃｏ．ｊｐ／ｉｔｓ／ｓｈａｒｉｎｇ／ｓｔｏｐ．ｈｔｍ＞
【０００４】
【発明が解決しようとする課題】
しかしながら、カーシェアリング等の一台の車両を複数人で使用するサービスにおいては、利用者が増加するにつれて円滑な車両運営が困難になるという課題があった。
【０００５】
そこで本発明は、上記の課題を解決することのできる自動車電子鍵システム、自動車電子鍵サーバ、自動車電子鍵制御方法、及びプログラムを提供することを目的とする。この目的は特許請求の範囲における独立項に記載の特徴の組み合わせにより達成される。また従属項は本発明の更なる有利な具体例を規定する。
【０００６】
【課題を解決するための手段】
即ち、本発明の第１の形態によると、自動車の開錠を制御する車載装置と、自動車を開錠する電子鍵として機能する利用者端末と、電子鍵の鍵データを発行する鍵サーバを備える自動車電子鍵システムにおいて、利用者端末は、利用者端末を特定する端末ＩＤ、並びに自動車の利用を希望する利用者から入力される自動車の車両ＩＤ及び利用希望期間を鍵サーバに送信することにより、利用者端末に配信するための鍵データである端末鍵と、鍵サーバが保有するための鍵データであるサーバ鍵との発行を要求する発行要求部と、鍵サーバから端末鍵を受信し、受信した端末鍵を、利用者が自動車を利用する時に車載装置に送信する鍵送受信部とを有し、鍵サーバは、利用者端末から、端末ＩＤ、車両ＩＤ、及び利用希望期間を受け付けた場合に、車両ＩＤで特定される自動車の予約状況と利用希望期間とに基づいて自動車の利用可能期間を設定し、利用可能期間における照合で認証が成立する端末鍵及びサーバ鍵を発行し、発行したサーバ鍵を保管し、発行した端末鍵を、端末ＩＤで特定される利用者端末に配信する鍵配信部と、車載装置から車両ＩＤ及び端末鍵を受信したときに、受信した車両ＩＤで特定される自動車について鍵配信部が発行して保管するサーバ鍵と、車載装置から受信した端末鍵とがいずれも利用可能期間内であって、かつ照合の結果、認証が成立することを条件にして、自動車の開錠を指示する開錠信号を車両ＩＤで特定される車載装置に送信する開錠信号送信部とを有し、車載装置は、利用者端末から端末鍵を受信したときに、受信した端末鍵を車両ＩＤと共に鍵サーバに転送する転送部と、鍵サーバから開錠信号を受信した場合に自動車を開錠する開錠部とを有する。
【０００７】
鍵サーバは、利用者による自動車の利用実績を端末ＩＤに対応付けて格納する利用実績データベースを更に有し、鍵配信部は、利用者端末から受け付けた端末ＩＤに基づいて、利用実績データベースから利用者の利用実績を抽出し、抽出した利用実績に更に基づいて、利用可能期間を設定してもよい。
【０００８】
利用実績は、自動車の利用料金の支払実績に基づく利用者の支払能力であり、鍵配信部は

、利用実績データベースから抽出した支払能力が所定の基準よりも低い場合に、利用可能期間を一定期間以内に設定してもよい。

【０００９】

利用実績は、利用者の事故履歴であり、鍵配信部は、利用実績データベースから抽出した事故履歴から、利用者による事故が特定の時間帯に偏っていると判断した場合に、利用可能期間のうち特定の時間帯を除いた時間帯において有効な端末鍵を発行してもよい。

【００１０】

車載装置は、利用者による自動車の利用が終了した時点で、当該利用における走行距離を利用実績として車両ＩＤと共に鍵サーバに送信し、鍵サーバは、受信した走行距離に基づいて当該利用に対する利用料金を計算し、計算した利用料金を、端末ＩＤで特定される利用者端末に表示してもよい。

【００１１】

車載装置は、利用者による自動車の利用が終了した時点で、自動車の現在位置及び車両ＩＤを鍵サーバに送信し、鍵サーバは、受信した車両ＩＤで特定される自動車が、受信した現在位置に駐車されている旨を他の利用者端末に表示してもよい。

【００１２】

車載装置は、利用者による自動車の利用が終了した時点で、当該利用における事故の有無及び車両ＩＤを鍵サーバに送信し、鍵サーバは、利用において事故があった旨を受信した場合に、車両ＩＤで特定される自動車の利用ができない旨を他の利用者端末に表示してもよい。車載装置は、利用者端末との距離が所定値以上であると判断した場合に、自動車を施錠してもよい。

【００１３】

鍵サーバは、利用者による自動車の利用実績を端末ＩＤに対応付けて格納する利用実績データベースを更に有し、鍵配信部は、利用者端末から受け付けた端末ＩＤに基づいて、利用実績データベースから利用者の利用実績を抽出し、抽出した利用実績に基づいて、利用者による自動車の利用可能地域を更に設定し、利用可能期間及び利用可能地域において有効な端末鍵を発行し、車載装置の転送部は、利用者端末から端末鍵を受信したときに、端末鍵と共に、自動車の現在位置を鍵サーバに転送し、鍵サーバの開錠信号送信部は、転送部から端末鍵及び現在位置を受信したときに、受信した現在位置が、端末鍵の有効な利用可能地域内であることが更に満たされた場合に、車載装置に開錠信号を送信してもよい。

【００１４】

本発明の第２の形態によれば、自動車の開錠を制御する車載装置と、自動車を開錠する電子鍵として機能する利用者端末と、電子鍵の鍵データを発行する鍵サーバを備える自動車電子鍵システムにおいて、利用者端末は、利用者端末を特定する端末ＩＤ、並びに自動車の利用を希望する利用者から入力される自動車の車両ＩＤ及び利用希望期間を鍵サーバに送信することにより、車載装置に配信するための鍵データである車載鍵と利用者端末用に配信するための鍵データである端末鍵との発行を要求する発行要求部と、鍵サーバから端末鍵を受信し、受信した端末鍵を、利用者が自動車を利用する時に車載装置に送信する鍵送受信部とを有し、鍵サーバは、利用者端末から、端末ＩＤ、車両ＩＤ、及び利用希望期間を受け付けた場合に、車両ＩＤで特定される自動車の予約状況と利用希望期間とに基づいて自動車の利用可能期間を設定し、利用可能期間における照合で認証が成立する車載鍵及び端末鍵を発行し、車載鍵を車両ＩＤで特定される車載装置に配信し、端末鍵を端末ＩＤで特定される利用者端末に配信する鍵配信部を有し、車載装置は、鍵サーバから車載鍵を受信して格納する車載鍵格納部と、利用者端末から端末鍵を受信したときに、車載鍵格納部に格納された車載鍵と利用者端末から受信した端末鍵とがいずれも利用可能期間内であって、かつ照合の結果、認証が成立することを条件にして、自動車を開錠する開錠部とを有する。

【００１５】

本発明の第３の形態によれば、自動車用電子鍵の鍵データを発行する自動車電子鍵サーバは、自動車の利用を希望する利用者の利用者端末から、利用者端末を特定する端末ＩＤ、

自動車を特定する車両ＩＤ、及び利用希望期間を受け付けた場合に、車両ＩＤで特定される自動車の予約状況と利用希望期間とに基づいて自動車の利用可能期間を設定し、利用可能期間における照合で認証が成立するサーバ鍵及び端末鍵を発行し、発行したサーバ鍵を保管し、発行した端末鍵を端末ＩＤで特定される利用者端末に配信する鍵配信部と、受信した端末鍵を車両ＩＤと共に転送する車載装置から端末鍵及び車両ＩＤを受信したときに、受信した車両ＩＤで特定される自動車について鍵配信部が発行して保管するサーバ鍵と、車載装置から受信した端末鍵とがいずれも利用可能期間内であって、かつ照合の結果、認証が成立することを条件として、自動車の開錠を指示する開錠信号を車両ＩＤで特定される車載装置に送信する開錠信号送信部とを備える。

【００１６】

本発明の第４の形態によれば、自動車の開錠を制御する車載装置ステップと、自動車を開錠する電子鍵を取得して使用する利用者ステップと、電子鍵の鍵データを発行するサーバステップとを備える自動車電子鍵制御方法において、利用者ステップは、鍵データを発行する鍵サーバに、自動車の利用を希望する利用者の利用者端末を特定する端末ＩＤ、並びに利用者から入力される自動車の車両ＩＤ及び利用希望期間を送信することにより、自動車の開錠を制御する車載装置に配信するための鍵データである車載鍵と、利用者端末用に配信するための鍵データである端末鍵との発行を要求する発行要求ステップと、鍵サーバから端末鍵を受信し、受信した端末鍵を、利用者が自動車を利用する時に車載装置に送信する鍵送受信ステップとを有し、サーバステップは、利用者端末から、端末ＩＤ、車両ＩＤ、及び利用希望期間を受け付けた場合に、車両ＩＤで特定される自動車の予約状況と利用希望期間とに基づいて自動車の利用可能期間を設定し、利用可能期間における照合で認証が成立する車載鍵及び端末鍵を発行し、車載鍵を車両ＩＤで特定される車載装置に配信し、端末鍵を端末ＩＤで特定される利用者端末に配信する配信ステップを有し、車載装置ステップは、鍵サーバから車載鍵を受信して格納する車載鍵格納ステップと、利用者端末から端末鍵を受信したときに、格納された車載鍵と利用者端末から受信した端末鍵とがいずれも利用可能期間内であって、かつ照合の結果、認証が成立することを条件として自動車を開錠する開錠ステップとを有する。

【００１７】

本発明の第５の形態によれば、自動車の開錠を制御する車載装置ステップと、自動車を開錠する電子鍵を取得して使用する利用者ステップと、電子鍵の鍵データを発行するサーバステップとを備える自動車電子鍵制御方法において、利用者ステップは、鍵データを発行する鍵サーバに、自動車の利用を希望する利用者の利用者端末を特定する端末ＩＤ、並びに利用者から入力される自動車の車両ＩＤ及び利用希望期間を送信することにより、利用者端末に配信するための鍵データである端末鍵と、鍵サーバが保有するための鍵データであるサーバ鍵との発行を要求する発行要求ステップと、鍵サーバから端末鍵を受信し、受信した端末鍵を、利用者が自動車を利用する時に自動車の開錠を制御する車載装置に送信する鍵送受信ステップとを有し、サーバステップは、利用者端末から、端末ＩＤ、車両ＩＤ、及び利用希望期間を受け付けた場合に、車両ＩＤで特定される自動車の予約状況と利用希望期間とに基づいて自動車の利用可能期間を設定し、利用可能期間における照合で認証が成立する端末鍵及びサーバ鍵を発行し、発行したサーバ鍵を保管し、発行した端末鍵を、端末ＩＤで特定される利用者端末に配信する配信ステップと、車載装置から車両ＩＤ及び端末鍵を受信したときに、受信した車両ＩＤで特定される自動車について配信ステップで発行して保管されたサーバ鍵と、車載装置から受信した端末鍵とがいずれも利用可能期間内であって、かつ照合の結果、認証が成立することを条件として、自動車の開錠を指示する開錠信号を車両ＩＤで特定される車載装置に送信する開錠信号送信ステップとを有し、車載装置ステップは、利用者端末から端末鍵を受信したときに、受信した端末鍵を車両ＩＤと共に鍵サーバに転送する転送ステップと、鍵サーバから開錠信号を受信した場合に自動車を開錠する開錠ステップとを有する。

【００１８】

本発明の第６の形態によれば、自動車用電子鍵の鍵データを発行するコンピュータ用のプ

ログラムは、自動車の利用を希望する利用者の利用者端末から、利用者端末を特定する端末ＩＤ、自動車を特定する車両ＩＤ、及び利用希望期間を受け付けた場合に、車両ＩＤで特定される自動車の予約状況と利用希望期間とに基づいて自動車の利用可能期間を設定し、利用可能期間における照合で認証が成立するサーバ鍵及び端末鍵を発行し、発行したサーバ鍵を保管し、発行した端末鍵を端末ＩＤで特定される利用者端末に配信する鍵配信機能と、受信した端末鍵を車両ＩＤと共に転送する車載装置から端末鍵及び車両ＩＤを受信したときに、受信した車両ＩＤで特定される自動車について鍵配信部が発行して保管するサーバ鍵と、車載装置から受信した端末鍵とがいずれも利用可能期間内であって、かつ照合の結果、認証が成立することを条件として、自動車の開錠を指示する開錠信号を車両ＩＤで特定される車載装置に送信する開錠信号送信機能とをコンピュータに実現させる。

【００１９】

なお上記の発明の概要は、本発明の必要な特徴の全てを列挙したものではなく、これらの特徴群のサブコンビネーションも又発明となりうる。

【００２０】

【発明の実施の形態】

以下、発明の実施の形態を通じて本発明を説明するが、以下の実施の形態は特許請求の範囲にかかる発明を限定するものではなく、又実施形態の中で説明されている特徴の組み合わせの全てが発明の解決手段に必須であるとは限らない。

【００２１】

図１は、第１及び第２の実施形態に係る自動車電子鍵システム１００の構成を示す。自動車電子鍵システム１００は、カーシェアリング等の一台の車両を複数人で使用するサービスにおいて円滑な車両運営を実現することを目的とする。自動車電子鍵システム１００は、自動車２００の開錠を制御する自動車電子鍵システム１００と、自動車２００を開錠する電子鍵として機能する利用者端末１２０と、ネットワーク８０を介して利用者端末１２０及び車載装置１０と接続され、電子鍵の鍵データを発行する鍵サーバ５０とを主に備える。鍵サーバ５０は、本実施形態に係るカーシェアリングサービスを提供する運営会社１３２によって運用される。

【００２２】

さらに自動車電子鍵システム１００は、ネットワーク８０を介して鍵サーバ５０に接続し、本サービスへの加入を希望する利用者の信用を保証する保険会社１３６と、利用者端末１２０の一例である携帯電話の通信サービスを提供する携帯電話事業者１３４とを含んでもよい。さらに自動車電子鍵システム１００は、運営会社１３２のサイトにアクセスして、本サービスへの加入申し込みや、車両の予約状況の確認を行うパーソナルコンピュータ１３０をさらに備えてもよい。

【００２３】

本サービスの利用を希望する利用者は、パーソナルコンピュータ１３０又は利用者端末１２０を用いて運営会社１３２のホームページにアクセスし、本サービスへの加入を申し込む。保険会社１３６は、本サービスへの加入を申し込んだ利用者の信用状況、事故歴などをチェックして保証を与え、運営会社１３２に連絡する。運営会社１３２は、保険会社１３６の保証を受けて、利用者の情報を登録し、ホームページを通じて利用者にサービスを提供する準備を整える。利用者は、パーソナルコンピュータ１３０又は利用者端末１２０を用いて、ホームページから本サービスを利用する権限を示す登録情報をダウンロードし、利用者端末１２０のＩＣチップなどの記録媒体に格納する。

【００２４】

運営会社１３２は、管理する自動車の運行状況及び予約状況を考慮して、利用可能な車両と日時をホームページ上に表示する。利用者は、利用者端末１２０又はパーソナルコンピュータ１３０を用いて所望する自動車２００の予約を申し込む。鍵サーバ５０は、予約された期間内で有効な鍵データを利用者端末１２０に配信し、予約された自動車２００を利用可能な車両のリストから除外する。利用者端末１２０は、配信された鍵データを、内蔵するＩＣチップ等に格納する。

【００２５】
利用者端末１２０は、利用者が予約した自動車２００を利用する時に、格納した鍵データを車載装置１０に送信する。車載装置１０に送信した鍵データが認証されると、車載装置１０は、自動車２００を開錠する。利用者は、例えば目的地まで自動車２００を運転し、乗り捨てる。運営会社１３２は、乗り捨てられた車両の状態に問題がなければ当該自動車を予約可能な車両のリストに登録する。運営会社１３２は、利用者毎の利用状況に応じた請求データを携帯電話事業者１３４に送信する。携帯電話事業者１３４は、運営会社１３２から受信した請求データに応じた請求金額を電話料金の徴収時にあわせて徴収し、運営会社１３２に支払う。

【００２６】
以上の様な自動車電子鍵システム１００によれば、予約された期間内で有効な電子鍵を用いて自動車２００を開錠するので、利用者が予約期間を超過して自動車２００を利用し続けることを防止することができる。従って運営会社１３２は、車両の運営を円滑に行うことができる。また、利用者によるサービス加入時に保険会社１３６が利用者の信用を保証するので、運営会社１３２は利用者による料金不払いリスクが回避できる。また本サービスの利用料金を携帯電話の請求にあわせて徴収することができるので、利用者及び運営会社１３２の双方にとって、利用料金の決済を簡便に行うことができる。すなわち、本実施形態に係る自動車電子鍵システム１００によれば、カーシェアリング等の一台の車両を複数人で使用するサービスを円滑に運営することができる。

【００２７】
図２は、第１の実施形態に係る自動車電子鍵システム１００の内部構成を示す。本実施形態に係る利用者端末１２０は、利用者端末１２０を特定する端末ＩＤ、並びに自動車１２０の利用を希望する利用者から入力される自動車２００の車両ＩＤ及び利用希望期間を鍵サーバ５０に送信することにより、利用者端末１２０に配信するための鍵データである端末鍵と、鍵サーバ５０が保有するための鍵データであるサーバ鍵との発行を要求する発行要求部１２と、鍵サーバ５０から端末鍵を受信し、受信した端末鍵を、利用者が自動車２００を利用する時に車載装置１０に送信する鍵送受信部とを有する。

【００２８】
鍵サーバ５０は、車両毎の予約を管理する予約部１６と、利用者端末１２０から、端末ＩＤ、車両ＩＤ、及び利用希望期間を受け付けた場合に、車両ＩＤで特定される自動車２００の予約状況と利用希望期間とに基づいて自動車２００の利用可能期間を設定し、利用可能期間における照合で認証が成立する端末鍵及びサーバ鍵を発行し、発行したサーバ鍵を保管し、発行した端末鍵を端末ＩＤで特定される利用者端末１２０に配信する鍵配信部１８と、車載装置１０から車両ＩＤ及び端末鍵を受信したときに、受信した車両ＩＤで特定される自動車２００について鍵配信部１８が発行して保管するサーバ鍵と、車載装置１０から受信した端末鍵とがいずれも利用可能期間内であって、かつ照合の結果、認証が成立することを条件にして、自動車２００の開錠を指示する開錠信号を車両ＩＤで特定される車載装置１０に送信する開錠信号送信部３２とを有する。

【００２９】
さらに鍵サーバ５０は、利用者による自動車の利用実績を端末ＩＤに対応付けて格納する利用実績データベース３０を有し、鍵配信部１８は、利用者端末１２０から受け付けた端末ＩＤに基づいて、利用実績データベース３０から利用者の利用実績を抽出し、抽出した利用実績に更に基づいて、利用可能期間を設定してもよい。利用実績データベース３０は、携帯電話事業者１３４及び保険会社１３６から利用者毎の利用実績を取得してもよい。これにより、鍵サーバ５０は、車両運営に支障をきたすリスクの高い利用者を利用実績に基づいて判断し、当該リスクを低減するように利用可能期間を設定することができる。

【００３０】
さらに鍵サーバ５０は、利用実績に応じて利用料金を計算する利用料金計算部３４を有する。利用料金計算部３４は、計算した利用料金を利用者端末１２０に表示する。また、利用料金の徴収を依頼すべく、携帯電話事業者１３４に料金データを送信する。

【００３１】
車載装置１０は、利用者端末１２０から端末鍵を受信したときに、受信した端末鍵を車両ＩＤと共に鍵サーバ５０に転送する転送部４０と、鍵サーバ５０から開錠信号を受信した場合に自動車２００を開錠する開錠部２２とを有する。さらに車載装置１０は、自動車２００の位置を測定して転送部４０及び鍵サーバ５０に送信する測位部４２と、自動車２００による事故を検出して鍵サーバ５０に送信する事故検出部４４と、自動車２００の走行距離を計測して鍵サーバ５０に送信する走行距離計測部４６とを有する。
【００３２】
これにより車載装置１０は、自動車２００の運行状況及び利用者毎の利用実績を鍵サーバ５０に送信することができる。これにより鍵サーバ５０は、車両の運営をより円滑に行うことができる。
【００３３】
さらに車載装置１０は、利用者端末１２０との距離が所定値以上であることを検出した場合に、開錠部２２に自動車２００を施錠させる施錠信号を送信する端末検出部４８を有する。これにより車載装置１０は、利用者端末１２０を携帯した利用者が自動車２００から所定の距離以上離れた場合に、自動車２００を施錠する。
【００３４】
従って、自動車電子鍵システム１００は、利用者が自動車２００から一旦離れた後に再度自動車２００に乗り込もうとする場合に、利用者毎に設定された利用可能期間及び利用可能地域を満足しているか否かを再度確認する。確認の結果、いずれかの条件が満足されない場合には、自動車２００を開錠せず、満足されない条件をエラーメッセージとして利用者端末１２０に表示する。
【００３５】
記録媒体６０は、鍵サーバ５０に予約部１６、鍵配信部１８、利用実績データベース３０、開錠信号送信部３２、及び利用料金計算部３４の動作を行わせるプログラムを格納する。他の方法として、鍵サーバ５０は、そのようなプログラムを通信回線を介して取得してもよい。
【００３６】
以上説明したとおり、第１の実施形態に係る自動車電子鍵システム１００によれば、利用者毎に割り当てられた利用可能期間に従って、自動車２００の開錠を制御することができる。したがって、運営会社１３２は、車両の運営を円滑に行うことができる。さらに、鍵データの認証を鍵サーバ５０が行うので、車載装置１０の負担を軽減することができる。
【００３７】
図３は、第２の実施形態に係る自動車電子鍵システム１００の内部構成を示す。本実施形態は、以下の説明を除き、図２で説明した第１の実施形態と同様である。鍵サーバ５０が有する鍵配信部１８は、第１の実施形態におけるサーバ鍵に代えて、自動車２００に配信するための鍵データである車載鍵を発行する。そして、発行した車載鍵を車両ＩＤで特定される車載装置１０に配信する。
【００３８】
車載装置１０は、鍵サーバ５０から車載鍵を受信して格納する車載鍵格納部２０と、利用者端末１２０から端末鍵を受信したときに、車載鍵格納部２０に格納された車載鍵と利用者端末１２０から受信した端末鍵とがいずれも利用可能期間内であって、かつ照合の結果、認証が成立することを条件にして、自動車２００を開錠する開錠部２２とを有する。なお、利用可能期間の情報は、車載鍵及び端末鍵のデータ内に含まれてもよいし、別ファイルとして車載鍵及び端末鍵と共に配信されてもよい。
【００３９】
本実施形態に係る自動車電子鍵システム１００によれば、車載装置１０は、利用者端末１２０から受信した端末鍵を、自身に格納した車載鍵と照合するので、照合の際に外部を参照する必要がなく、認証の可否を素早く判断することができる。
【００４０】

図４は、利用実績データベース３０のデータフォーマットの一例である。利用実績データベース３０は、利用者による前記自動車２００の利用実績を前記端末ＩＤに対応付けて格納する。端末ＩＤの一例は携帯電話の電話番号である。利用実績の例は、本サービスの「利用回数」、「総走行距離」、「事故履歴」、運転の「熟練度」、及び「支払能力」である。「事故履歴」は、事故の「場所」及び「日時」を含む。また「熟練度」は、例えば走行履歴及び事故履歴から求める無事故での走行距離を段階分けして評価する。「支払能力」は、例えば本サービスを利用して利用代金を支払った実績に基づいて運営会社１３２が評価する。また、携帯電話料金の支払実績に基づいて携帯電話事業者１３４が評価し、鍵サーバ５０に通知してもよい。

【００４１】

鍵サーバ５０は、このような利用実績データベース３０を参照することにより、利用者が車両の円滑な運用を妨げるリスクを利用者毎に判断することができる。これにより、鍵サーバ５０は、利用者が自動車の予約を要求する場合に、当該リスクの程度を低減すべく利用者毎の利用条件を制限することができる。

【００４２】

図５は、第１の実施形態に係る車載装置１０、鍵サーバ５０、及び利用者端末１２０による通信シーケンスの例である。まず、利用者が、利用者端末１２０を操作して鍵データの発行を要求すると（Ｓ２００）、発行要求部１２は、利用希望期間、端末ＩＤ、及び車両ＩＤを鍵サーバ５０に送信する（Ｓ２０２）。鍵サーバ５０の鍵配信部１８は、利用者端末１２０から利用希望期間、端末ＩＤ、及び車両ＩＤを受け付けると、受け付けた車両ＩＤに基づいて予約部１６を参照することにより、該当する車両の予約状況を確認する（Ｓ２０４）。

【００４３】

鍵配信部１８は、受け付けた端末ＩＤに基づいて利用実績データベース３０を参照することにより、利用者の利用実績を確認する（Ｓ２０６）。そして、利用者端末１２０から受け付けた利用希望期間と、確認した予約状況及び利用実績に基づいて、当該利用者に対する利用可能期間及び利用可能地域を設定する（Ｓ２０８）。

【００４４】

ステップ２０８において、鍵配信部１８は、例えば利用実績としての支払能力が所定の基準よりも低い場合に、当該利用者に対する利用可能期間を一定期間以内に制限する。当該利用者の支払能力が、本サービスの利用に適さない程度に低い場合は、鍵配信部１８は、利用可能期間を０としてもよい。これにより、当該利用者による料金不払いのリスクが低減される。

【００４５】

ステップ２０８において、鍵配信部１８は、例えば利用実績としての事故履歴から、当該利用者による事故が特定の時間帯に偏っていると判断した場合に、当該特定の時間帯を除いた時間帯を利用可能期間として設定する。これにより、当該利用者による事故の可能性を低減し、事故に伴い車両の運行が不能になるリスクを低減することができる。

【００４６】

ステップ２０８において、鍵配信部１８は、例えば利用実績としての事故履歴から、当該利用者による事故が特定の地域に偏っていると判断した場合に、当該特定の地域を除いた地域を、前記利用者による利用可能地域として設定する。鍵配信部１８は、利用実績としての利用回数、総走行距離、又は熟練度に基づいて、当該利用者の利用可能地域を自宅から所定の距離以内として設定してもよい。

【００４７】

次に、鍵配信部１８は、設定した利用可能期間、利用可能時間帯、及び利用可能地域における照合で認証が成立するサーバ鍵及び端末鍵を発行し（Ｓ２１０）、発行したサーバ鍵を保管する一方で（Ｓ２１２）、端末鍵を端末ＩＤで特定される利用者端末１２０に配信する（Ｓ２１４）。

【００４８】

利用者端末１２０の鍵送受信部１４は、鍵サーバ５０から端末鍵を受信してＩＣチップなどの記録媒体に書き込む。そして、利用者から自動車２００の開錠を要求されると（Ｓ２１６）、端末鍵及び端末ＩＤを車載装置１０に送信する（Ｓ２１８）。

【００４９】

車載装置１０の転送部４０は、利用者端末１２０から端末鍵を受信したことに応じて、受信した端末鍵、測位部４２が測定した現在位置、並びに車両ＩＤ及び端末ＩＤを鍵サーバ５０に転送する（Ｓ２２０）。

【００５０】

鍵サーバ５０の開錠信号送信部３２は、転送部４０から端末鍵、現在位置、及び車両ＩＤを受信したときに、受信した車両ＩＤで特定される自動車２００について鍵配信部１８が発行して保管するサーバ鍵と、車載装置１０から受信した端末鍵とがいずれも、利用可能期間、利用可能時間、及び利用可能地域等の利用条件を満足し、かつ照合の結果、認証が成立する場合に（Ｓ２２４：Ｙｅｓ）、自動車２００の開錠を指示する開錠信号を車両ＩＤで特定される車載装置１０に送信する（Ｓ２３０）。ステップ２２４において、利用条件及び認証の少なくとも一方を満足しない場合（Ｓ２２４：Ｎｏ）、開錠信号送信部３２は、利用者端末１２０にエラーメッセージを送信し（Ｓ２２６）、利用者端末１２０は、利用者に対してエラー表示を行う（Ｓ２２８）。

【００５１】

車載装置１０の開錠部２２は、開錠信号送信部３２から開錠信号を受信すると、自動車２００を開錠する（Ｓ２３２）。そして利用者は、自動車２００を運転する。車載装置１０は、利用者が割り当てられた利用可能条件を違反しそうな場合には、利用可能条件を遵守するように利用者に対して警告する。利用者毎の利用可能条件は、鍵データが含んでもよいし、鍵データに対応付けられた別データとして鍵サーバ５０から配信されてもよい。

【００５２】

例えば、車載装置１０は、利用者毎の利用可能時間帯を超過する手前の所定の時点で運転が継続している場合、利用者に対して運転を終了すべき旨の警告を出す。また、当該運転者の利用可能地域を越える手前の所定の地点で、当該利用可能地域を越える方向に自動車２００が走行している場合、利用者に対して当該利用可能地域を越えないようにとの警告を出す。このような自動車電子鍵システム１００によれば、利用者による利用可能条件の違反を抑制することができる。

【００５３】

利用者による自動車２００の利用が終了すると（Ｓ２３４：Ｙｅｓ）、車載装置１０は、車両ＩＤ及び端末ＩＤ、並びに端末当該利用者による自動車２００の利用が終了した旨と当該利用者による利用実績とを鍵サーバ５０に送信する（Ｓ２３６）。例えば、走行距離計測部４６は、車両ＩＤ及び端末ＩＤと共に、利用実績としての走行距離を鍵サーバ５０に送信する。車載装置１０は、利用者が自動車２００から離れたことを確認して自動車２００を施錠する（Ｓ２３７）。

【００５４】

鍵サーバ５０は、受信した走行距離に基づいて、当該利用に対する利用料金を計算し（Ｓ２３８）、計算した利用料金を端末ＩＤで特定される利用者端末１２０に送信し（Ｓ２４０）、利用者端末１２０は、受信した利用料金を表示する（Ｓ２４２）。これにより、利用者は自動車２００の利用が終了すると、即座に利用料金を確認することができる。

【００５５】

鍵サーバ５０は、ステップ２３６において、利用実績として自動車２００の現在位置を受信し、受信した現在位置に自動車２００が駐車されている旨を他の利用者端末１２０に表示してもよい。これにより、他の利用者は、前の利用者による利用が終了した時点で、自動車２００の現在位置を利用者端末１２０により確認することができる。

【００５６】

鍵サーバ５０は、ステップ２３６において、利用実績として事故の有無を受信してもよい。そして、事故があった旨を受信した場合に、受信した車両ＩＤで特定される自動車の利

用ができない旨を他の利用者端末１２０に表示してもよい。これにより、当該自動車２００の利用を予定した他の利用者は、例えば改めて他の自動車を予約したり、自動車の利用を取りやめたりという次の行動に移ることができる。最後に、鍵サーバ５０の利用実績データベース３０は、当該利用者の利用実績を更新して格納する（Ｓ２４４）。以上で本通信シーケンスは終了する。

【００５７】

本実施形態に係る通信シーケンスによれば、利用者毎の利用可能条件を予約状況及び利用実績に基づいて設定し、設定された利用可能条件に従って有効となる鍵データを用いて自動車２００の開錠を管理するので、運営会社１３２は、保有する自動車を円滑に運行することができる。

【００５８】

図６は、第２の実施形態に係る車載装置１０、鍵サーバ５０、及び利用者端末１２０による通信シーケンスの例である。まず、鍵データの発行が要求されると（Ｓ１００）、発行要求部１２は、利用希望期間、端末ＩＤ、及び車両ＩＤを鍵サーバ５０に送信する（Ｓ１０２）。鍵サーバ５０の鍵配信部１８は、受け付けた車両ＩＤに基づいて予約部１６を参照し、自動車２００の予約状況を確認する（Ｓ１０３）。そして鍵配信部１８は、利用希望期間及び予約状況に基づいて利用可能期間を設定する（Ｓ１０４）。鍵配信部１８は、設定した利用可能期間における照合で認証が成立する車載鍵及び端末鍵を発行し（Ｓ１０６）、発行した車載鍵を車両ＩＤで特定される車載装置１０に送信し、端末鍵を端末ＩＤで特定される利用者端末１２０に配信する（Ｓ１０８）。

【００５９】

車載装置１０の車載鍵格納部２０は、鍵サーバ５０から車載鍵を受信して格納する（Ｓ１１０）。利用者端末１２０の鍵送受信部１４は、鍵サーバ５０から端末鍵を受信してＩＣチップなどの記録媒体に書き込み、利用者から自動車２００の開錠を要求されると（Ｓ１１２）、端末ＩＤ及び端末鍵を車載装置１０に送信する（Ｓ１１４）。開錠部２２は、利用者端末１２０から端末ＩＤ及び端末鍵を受信したことに応じて、車載鍵格納部２０に格納された車載鍵と利用者端末１２０から受信した端末鍵とがいずれも利用可能期間内であって、かつ照合の結果、認証が成立する場合に（Ｓ１１６：Ｙｅｓ）、前記自動車を開錠する（Ｓ１１８）。

【００６０】

ステップ１１６において、端末鍵及び車載鍵の少なくとも一方が利用可能期間内でないか、照合の結果認証が成立しない場合（Ｓ１１６：Ｎｏ）、開錠部２２は、利用者端末１２０にエラーメッセージを送信する（Ｓ１２０）。開錠部２２からエラーメッセージを受信した利用者端末１２０は、エラーメッセージの内容を表示する（Ｓ１２２）。以降の動作は、図５で説明済みのステップ２３４からステップ２４４と同様なので記載を省略する。以上で、本通信シーケンスは終了する。

【００６１】

以上の通信シーケンスによれば、車載装置１０は、利用者端末１２０から受信した端末鍵を、自身に格納した車載鍵と照合するので、照合の際に鍵サーバ５０を参照する必要がない。したがって、本実施形態に係る自動車電子鍵システム１００は、利用者の認証を素早く行うことができる。

【００６２】

以上、本発明を実施の形態を用いて説明したが、本発明の技術的範囲は上記実施の形態に記載の範囲には限定されない。上記実施の形態に、多様な変更又は改良を加えることができる。その様な変更又は改良を加えた形態も本発明の技術的範囲に含まれ得ることが、特許請求の範囲の記載から明らかである。

【００６３】

上記説明から明らかなように、本発明の第１及び第２の実施形態によれば、カーシェアリング等の一台の車両を複数人で使用するサービスにおいて、利用者が増加しても円滑な車両運営を行うことのできる自動車電子鍵システムを提供することができる。

【図面の簡単な説明】

【図１】第１及び第２の実施形態に係る自動車電子鍵システム１００の構成図である。

【図２】第１の実施形態に係る自動車電子鍵システム１００の内部構成を示すブロック図である。

【図３】第２の実施形態に係る自動車電子鍵システム１００内部構成を示すブロック図である。

【図４】利用実績データベース３０のデータフォーマットの一例である。

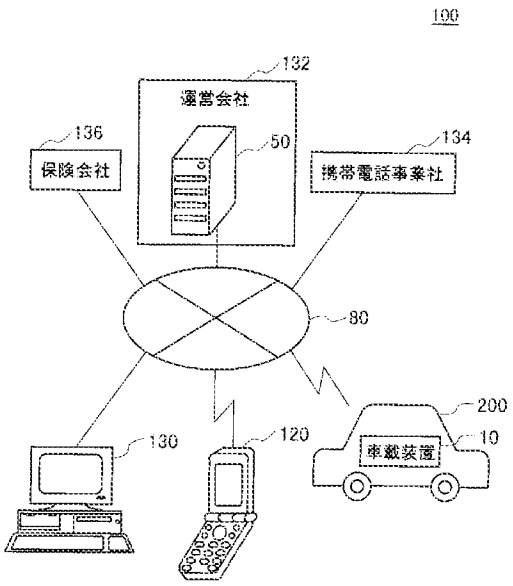
【図５】第１の実施形態に係る車載装置１０、鍵サーバ５０、及び利用者端末１２０による通信シーケンスの例である。

【図６】第２の実施形態に係る車載装置１０、鍵サーバ５０、及び利用者端末１２０による通信シーケンスの例である。

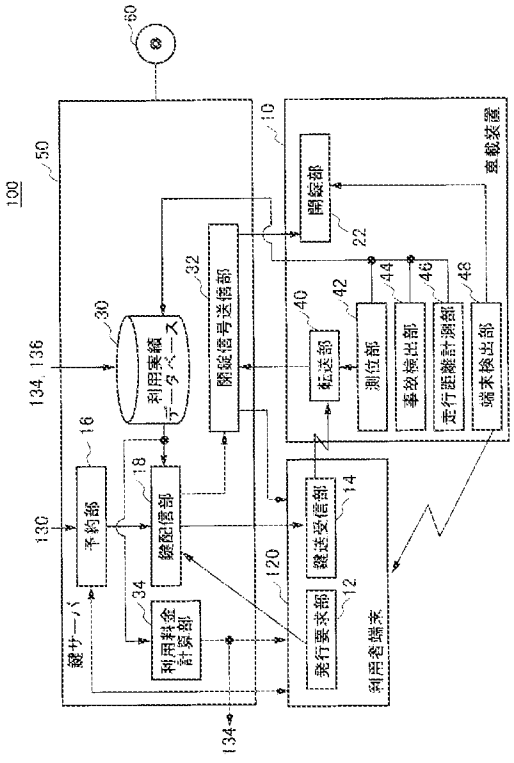
【符号の説明】

１０　車載装置、１２　発行要求部、１４　鍵送受信部、１６　予約部、１８　鍵配信部、２０　車載鍵格納部、２２　開錠部、３０　利用実績データベース、３２　開錠信号送信部、３４　利用料金計算部、４０　転送部、４２　測位部、４４　事故検出部、４６　走行距離計測部、４８　端末検出部、５０　鍵サーバ、６０　記録媒体、８０　ネットワーク、１００　自動車電子鍵システム、１２０　利用者端末、１３０　パーソナルコンピュータ、１３２　運営会社、１３４携帯電話事業者、１３６　保険会社

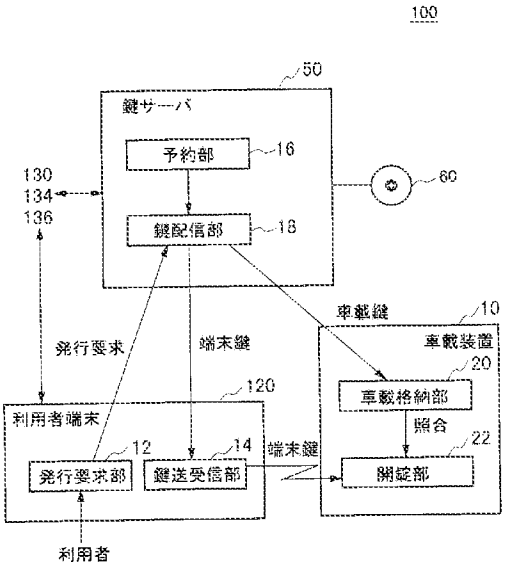
【図１】



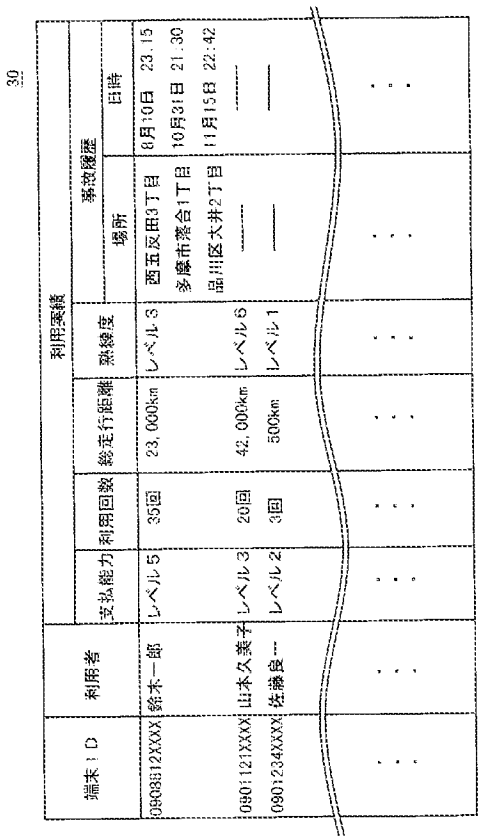
【図２】



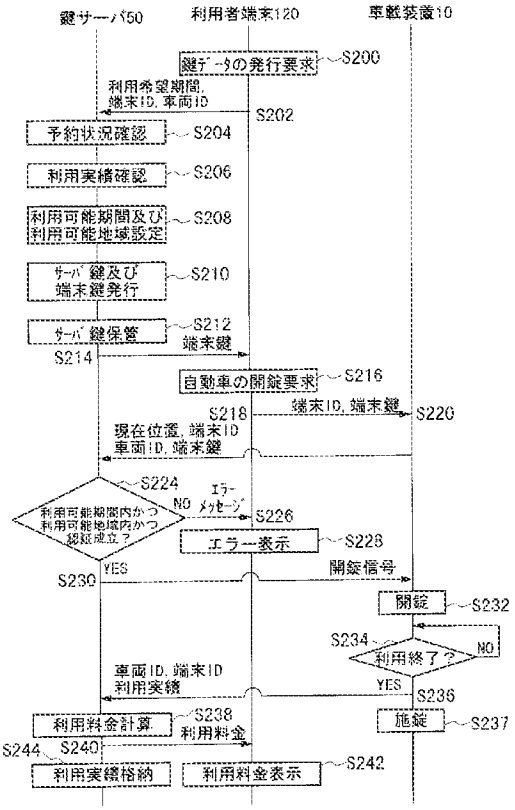
【図３】


100
50
鍵サーバ
予約部
16
鍵配信部
18
60
130
134
136
車載鍵
10
車載装置
車載格納部
20
照合
22
開錠部
発行要求
端末鍵
120
利用者端末
12
発行要求部
14
鍵送受信部
端末鍵
利用者

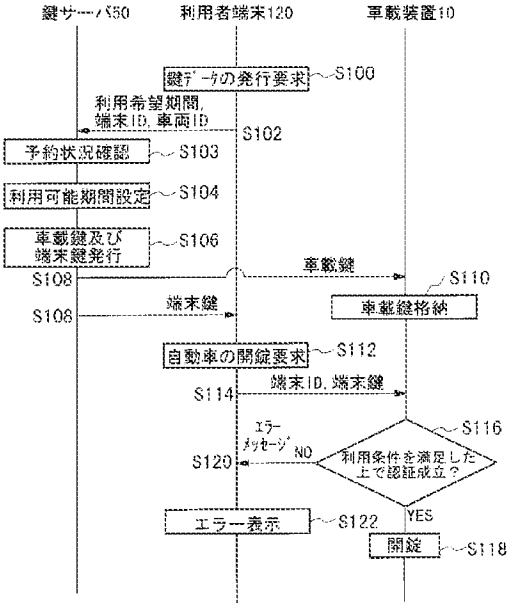
【図４】


30
利用実績
事故履歴
日時
場所
熟練度
総走行距離
利用回数
支払能力
利用者
端末ＩＤ
6月10日 23.15
西五反田3丁目
レベル3
23,000km
35回
レベル5
鈴木一郎
09038312XXXX
10月31日 21.30
多摩市落合1丁目
レベル6
42,000km
20回
レベル3
山本久美子
09011217XXXX
11月15日 22:42
品川区大井2丁目
レベル1
500km
3回
レベル2
佐藤豊一
09012345XXXX

【図５】


鍵サーバ50
利用者端末120
車載装置10
鍵データの発行要求
S200
利用希望期間,
端末ID, 車両ID
S202
予約状況確認
S204
利用実績確認
S206
利用可能期間及び
利用可能地域設定
S208
サーバ鍵及び
端末鍵発行
S210
サーバ鍵保管
S212
端末鍵
S214
自動車の開錠要求
S216
S218
端末ID, 端末鍵
S220
現在位置, 端末ID
車両ID, 端末鍵
S224
利用可能期間内かつ
利用可能地域内かつ
認証成立？
エラーメッセージ
NO
S226
エラー表示
S228
YES
S230
開錠信号
開錠
S232
S234
利用終了？
NO
YES
車両ID, 端末ID
利用実績
S236
利用料金計算
S238
利用料金
施錠
S237
S244
S240
利用実績格納
利用料金表示
S242

【図６】


鍵サーバ50
利用者端末120
車載装置10
鍵データの発行要求
S100
利用希望期間,
端末ID, 車両ID
S102
予約状況確認
S103
利用可能期間設定
S104
車載鍵及び
端末鍵発行
S106
S108
車載鍵
S110
車載鍵格納
S108
端末鍵
自動車の開錠要求
S112
S114
端末ID, 端末鍵
S116
エラーメッセージ
NO
S120
利用条件を満足した
上で認証成立？
エラー表示
S122
YES
開錠
S118

フロントページの続き

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H04L 9/08	H04L 9/00	601B	
	G08G 1/00	Z	

Patents jp2012076627

Driving support apparatus

Abstract

PROBLEM TO BE SOLVED: To provide a driving support apparatus that shows, in a first vehicle, the operating instructions of a first vehicle different from that of a second vehicle.SOLUTION: The driving support apparatus includes a storage unit, an acquisition unit, a vehicle-state acquisition unit, a second extraction unit, and an output unit. The storage unit stores: the operating instructions for individual functions of the first vehicle having a plurality of functions; and a condition of the first vehicle, corresponding to the function of the first vehicle. The acquisition unit acquires, from a server apparatus, the respective functions of the first and second vehicles, which are the same ones but are different in the operating instructions from each other, and stores them in the storage unit. The vehicle condition-acquisition unit acquires the condition of the first vehicle. The second extraction unit extracts, from the storage unit, the function that corresponds to the condition of the first vehicle obtained by the vehicle condition-acquisition unit. The output unit outputs the operating instructions for the function in the first vehicle when the function extracted by the second extraction unit is contained in the function that the acquisition unit has acquired.

JP2012076627A
Japan

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Other languages: Japanese

Inventor: Kunikatsu Hayashi, [redacted], Hironori Nomori, [redacted], Tomoo Noda, [redacted], Shinichi Hayashi, [redacted], Shojiro Takeuchi, [redacted], Sayaka Yoshizu, [redacted], Hiroaki Sekiyama, [redacted]

Current Assignee : Denso Ten Ltd , Toyota Motor Corp

Worldwide applications

2010 JP

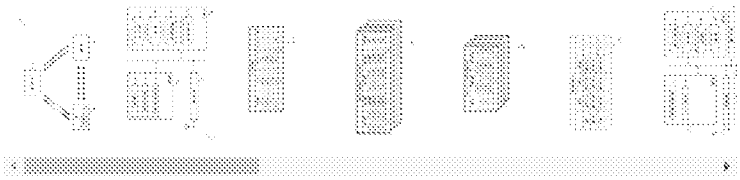
Application JP2010224285A events

2010-10-01	Application filed by Denso Ten Ltd, Toyota Motor Corp
2010-10-01	Priority to JP2010224285A
2012-04-19	Publication of JP2012076627A
Status	Pending

Info: Patent citations (6), Cited by (4), Legal events, Similar documents, Priority and Related Applications

External links: Espacenet, Global Dossier, Discuss

Images (20)



Landscapes

Traffic Control Systems

Show more

Claims (2)

Hide Dependent
translated from Japanese

A storage unit that stores an operation method for each function of the first vehicle having a plurality of functions, and a state of the first vehicle corresponding to the function of the first vehicle;
In the same function, an operation method in the first vehicle and an operation method in the second vehicle acquire different functions from the server device, and store in the storage unit;
A vehicle state acquisition unit for acquiring the state of the first vehicle;
A second extraction unit that extracts the function corresponding to the state of the first vehicle acquired by the vehicle state acquisition unit from the storage unit;
When the function extracted by the second extraction unit is included in the function acquired by the acquisition unit, an output unit that outputs an operation method of the function in the first vehicle;
A driving support apparatus comprising: An operation method for each function of the first vehicle having a plurality of functions, and a storage unit for storing a state of the first vehicle corresponding to the function of the first vehicle;
An acquisition unit that acquires an operation method for each function of the second vehicle having a plurality of functions from the server device, and stores the operation method in the storage unit;
A first extraction unit for extracting different functions from the storage unit in the same function, the operation method in the first vehicle and the operation method in the second vehicle;
A vehicle state acquisition unit for acquiring the state of the first vehicle;
A second extraction unit for extracting a function corresponding to the state of the first vehicle acquired by the vehicle state acquisition unit from the storage unit;
When the function extracted by the second extraction unit is included in the function extracted by the first extraction unit, an output unit that outputs an operation method of the function in the first vehicle;
A driving support apparatus comprising:

Description

translated from Japanese

The present invention relates to a driving support apparatus that notifies a method for operating a function of a vehicle.

Cars (vehicles) are equipped with various functions. Since the operation method of these functions depends on the vehicle type, model year, etc. of the vehicle, it is generally different for each vehicle. For this reason, when driving a car that you do not normally use using a car rental or car sharing, the driver must use the manual etc. to operate the functions that are different from the car that they normally use before driving. Check.

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However, it is during driving that the driver wants to know how to operate the car functions. It is usually not possible for the driver to check the manual while driving. For this reason, the driver may mistake the operation of the vehicle that is not normally used, leading to an accident or the like.

An object of the present invention is to provide a driving support device for guiding a method of operating a first vehicle different from the second vehicle in the first vehicle.

The present invention employs the following means in order to solve the above problems.

That is, the first aspect of the present invention is
A storage unit that stores an operation method for each function of the first vehicle having a plurality of functions, and a state of the first vehicle corresponding to the function of the first vehicle;
In the same function, an operation method in the first vehicle and an operation method in the second vehicle acquire different functions from the server device, and store in the storage unit;
A vehicle state acquisition unit for acquiring the state of the first vehicle;
A second extraction unit that extracts the function corresponding to the state of the first vehicle acquired by the vehicle state acquisition unit from the storage unit;
When the function extracted by the second extraction unit is included in the function acquired by the acquisition unit, an output unit that outputs an operation method of the function in the first vehicle;
Is a driving support device.

The second aspect of the present invention is:
An operation method for each function of the first vehicle having a plurality of functions, and a storage unit for storing a state of the first vehicle corresponding to the function of the first vehicle;
An acquisition unit that acquires an operation method for each function of the second vehicle having a plurality of functions from the server device, and stores the operation method in the storage unit;
A first extraction unit for extracting different functions from the storage unit in the same function, the operation method in the first vehicle and the operation method in the second vehicle;
A vehicle state acquisition unit for acquiring the state of the first vehicle;
A second extraction unit for extracting a function corresponding to the state of the first vehicle acquired by the vehicle state acquisition unit from the storage unit;
When the function extracted by the second extraction unit is included in the function extracted by the first extraction unit, an output unit that outputs an operation method of the function in the first vehicle;
Is a driving support device.

ADVANTAGE OF THE INVENTION According to this invention, the driving assistance apparatus which guides the operating method of the 1st vehicle different from a 2nd vehicle in a 1st vehicle can be provided.

FIG. 1 is a diagram illustrating an example of a car sharing system configuration according to the present embodiment. FIG. 2 is a diagram illustrating a configuration example of the management server. FIG. 3 is a diagram illustrating an example of the user information DB. FIG. 4 is a diagram illustrating an example of the reservation information DB. FIG. 5 is a diagram illustrating an example of the usage history information DB. FIG. 6 is a diagram illustrating an example of the vehicle type operation method DB. FIG. 7 is a diagram illustrating a configuration example of a vehicle-mounted device. FIG. 8 is a diagram illustrating an example of the operation method difference information DB. FIG. 9 is a diagram illustrating an example of the function information DB 234. FIG. 10 is a diagram illustrating an example of the vehicle information acquisition unit. FIG. 11 is a diagram illustrating a configuration example of a mobile terminal. FIG. 12 is a diagram illustrating an example of the vehicle information acquisition unit. FIG. 13 is a diagram illustrating an example of an operation flow of the mobile terminal at the time of reservation. FIG. 14 is a diagram showing an operation flow (1) of the management server at the time of reservation. FIG. 15 is a diagram showing an operation flow (2) of the management server at the time of reservation. FIG. 16 is a diagram showing an operation flow (3) of the management server at the time of reservation. FIG. 17 is a diagram illustrating an example of an operation flow of a car during driving. FIG. 18 is a diagram illustrating an example of an operation flow of the scene determination unit. FIG. 19 is a diagram illustrating an example of an operation flow of the vehicle scene determination unit when the engine is started. FIG. 20 is a diagram illustrating an example of an operation flow of the scene determination unit of the mobile terminal.

Hereinafter, a car sharing system according to the present invention will be described with reference to the drawings. The configuration of the embodiment is an exemplification, and the present invention is not limited to the configuration of the disclosed embodiment.

Embodiment 1
The car sharing system of this embodiment will be described. The car sharing system is a system that uses one or a plurality of vehicles with a plurality of users based on prior reservations. The user of the car sharing system uses a portable terminal to access the management server and reserve use of the car. When the user is using the vehicle, the vehicle-mounted device of the vehicle communicates with the management server and the mobile terminal to provide appropriate guidance to the user. Vehicles include vehicles such as passenger cars, freight vehicles (eg, trucks), and shared vehicles (eg, buses).

The car sharing system of this embodiment can be applied to a general rental car system that lends a plurality of cars to unspecified users. Further, the car sharing system of the present embodiment can also be applied when a user who owns a vehicle changes to another vehicle.

(Configuration example)
FIG. 1 is a diagram illustrating an example of a car sharing system configuration according to the present embodiment. The car sharing system 1 according to the present embodiment includes a management server 10, a car 20, and a mobile terminal 30. A vehicle-mounted device 200 is mounted on the car 20. The management server 10, the vehicle-mounted device 200 of the car 20, and the mobile terminal 30 can communicate with each other.

The management server 10 performs reservation management of the car 20 used by the user in the car sharing system 1. The management server 10 receives a reservation for using the car 20 from the user via the portable terminal 30.

The car 20 is used by a user who has made a reservation in advance in the car sharing system 1. The vehicle 20 includes an on-vehicle device 200 that can communicate with the management server 10 and the mobile terminal 30. The car 20 includes, for example, a passenger car, a freight car, and a shared car. The in-vehicle device 200 is, for example, a navigation device.

In the car sharing system 1, the mobile terminal 30 transmits reservation information for using the car 20 to the management server 10 by a user operation. The mobile terminal 30 is, for example, a mobile phone, a notebook PC (Personal Computer), a PDA (Personal Digital Assistant) or the like.

For example, near field communication is used for communication between the vehicle-mounted device 200 of the car 20 and the portable terminal 30. Short-range wireless communication uses Bluetooth (registered trademark), wireless LAN (Local Area Network
) Etc. Communication between the portable terminal 30 and the management server 10 and between the vehicle-mounted device 200 of the car 20 and the management server 10 is, for example, WiMAX (Worldwide Interoperability For Microwave
Access), PHS (Personal Handy-phone System), mobile phone wireless networks, and the like.

FIG. 2 is a diagram illustrating a configuration example of the management server. The management server 10 includes a control unit 110, a communication processing unit 120, and a storage unit 130.

The control unit 110 includes a CPU (Central Processing Unit) and a ROM (Read Only Memory).
RAM (Random Access Memory) and input / output interface. When the power is turned on, the control unit 110 executes a computer program recorded in the ROM and the storage unit 130, and data of the memory card inserted into the card memory interface, and data stored in the RAM and the storage unit 130. Etc. to realize various

functions. The control unit 110 executes a computer program that implements the reservation management unit 111, the usage frequency determination unit 112, the vehicle type function difference extraction unit 113, and the like.

The reservation management unit 111 receives a reservation for the use of a car from the user via the portable terminal 30.

The usage frequency determination unit 112 determines the usage frequency of the vehicle type of the vehicle reserved by the user.

The vehicle type function difference extraction unit 113 extracts a function having the same function and a different operation method between the vehicle type reserved by the user and the vehicle type of the vehicle frequently used by the user, and the operation method thereof. To do.

The communication processing unit 120 transmits and receives data by wireless communication. The communication processing unit 120 performs communication between the car 20 and the mobile terminal 30. The communication processing unit 120 may transmit and receive data by wired communication.

The storage unit 130 stores information used by the control unit 110. The storage unit 130 includes a user information DB 131, a reservation information DB 132, a use history information DB 133, and a vehicle type operation method DB 13.
4 is included.

FIG. 3 is a diagram illustrating an example of the user information DB. The user information DB 131 stores a user ID, a password, a model of a car, etc. for each user (user). My car is a car owned by the user, and is a car that the user usually uses. That is, the car is a car that is frequently used for the user. For each user (user), a user ID, a password, a car type of a car, and the like are stored in the user information DB 131 in advance.

FIG. 4 is a diagram illustrating an example of the reservation information DB. The reservation information DB 132 stores reservation information about vehicles used in the car sharing system 1. The reservation information includes the user ID of the user who made the reservation, the use start date and time, the use end date and time, the vehicle type, and the like.

FIG. 5 is a diagram illustrating an example of the usage history information DB. The use history information DB 133 stores, for each user, the type of vehicle used by the user in the past, the date and time of use, and the like. Based on the use history information DB 133, the number of times the user has used a certain vehicle type can be calculated. The usage history information DB 133 may store the number of times each vehicle type is used for each user.

FIG. 6 is a diagram illustrating an example of the vehicle type operation method DB. The vehicle type operation method DB 134 stores an operation method of each function of the vehicle for each vehicle type. In the example of FIG. 6, the operation method of "function 1" of "vehicle type α" is "operation method X". When a certain "vehicle type" does not have a "function", as the operation method of the "function" of the "vehicle type", for example, "none" may be stored in the vehicle type operation method DB 134.

FIG. 7 is a diagram illustrating a configuration example of a vehicle-mounted device. The vehicle-mounted device 200 of the car 20 includes a control unit 210, a communication processing unit 220, a storage unit 230, a display unit 240, and an audio output unit 250. The vehicle-mounted device 200 is mounted on the car 20.

The control unit 210 includes a CPU (Central Processing Unit) and a ROM (Read Only Memory).
RAM (Random Access Memory) and input / output interface. When the accessory power of the vehicle is turned on, the control unit 210 executes the computer program recorded in the ROM or the storage unit 230 and is stored in the data of the memory card inserted into the card memory interface, the RAM, or the storage unit 230. Various functions are realized by using the stored data. The control unit 210 executes a computer program that implements the vehicle type information acquisition processing unit 211, the scene determination unit 212, and the like.

The vehicle type information acquisition processing unit 211 acquires, from the management server 10 or the mobile terminal 30 of the user, information on operation methods that are different from each other in the functions of the own vehicle and the types of vehicles that are frequently used by the user. The vehicle type information acquisition processing unit 211 stores the acquired information in the operation method difference information DB 231 of the storage unit 220.

The scene determination unit 212 determines the state of the vehicle 20 and the like according to information from the vehicle information acquisition unit 270 of the vehicle 20. The scene determination unit 212 guides an operation method of an appropriate function through the display unit 250 and the audio output unit 260 according to the state of the vehicle 20.

The communication processing unit 220 transmits and receives data by wireless communication. The communication processing unit 220 performs communication between the management server 10 and the mobile terminal 30. The communication processing unit 220 may transmit and receive data by wired communication. For example, the communication processing unit 220 may be wired and connected to the mobile terminal 30 to transmit and receive data. The communication processing unit 220 is, for example, a module based on DCM (Data Communication Module) which is an in-vehicle communication standard or WiMAX (Worldwide interoperability for Microwave Access) which is a wireless communication standard.

The storage unit 230 stores information used by the control unit 210 and the like. The storage unit 230 stores an operation method difference information DB 231, a reservation information DB 232, and a map information DB 233.

FIG. 8 is a diagram illustrating an example of the operation method difference information DB. The operation method difference information DB 231 stores information on operation methods different from each other in each function of the own vehicle and the types of vehicles that are frequently used by the user. Further, the operation method difference information DB 231 can store priorities of operation methods that are different from each other in each function of the own vehicle and the types of vehicles that are frequently used by the user. An operation method having a high priority is preferentially guided when a function operation method is guided. The priority may be determined in advance in the function information DB 234. The operation method difference information DB 231 may store the same operation method information for each function of the own vehicle and the types of vehicles that are frequently used by the user.

The reservation information DB 232 stores reservation information received from the mobile terminal 30.

The map information DB 233 stores map information used when the vehicle-mounted device 200 provides route guidance. The map information includes information such as roads and facilities.

FIG. 9 is a diagram illustrating an example of the function information DB 234. The function information DB 234 stores information such as the state of the car when each function of the car 20 is used. Examples of the state of the car include "the engine is started", "the current position is a gas station and stopped", and "the shift lever is reverse". Information such as a plurality of states may be stored for one function. In the function information DB 234, the state of the vehicle and the function of the vehicle to be used in this state are stored in association with each other. The function information DB 234 may have priority information for each function.

The display unit 240 performs display based on display screen data transmitted from the control unit 210 or the like. The display unit 240 is a display device such as an LCD (Liquid Crystal Display), a CRT (Cathode Ray Tube) display, or an organic EL (Electroluminescence) display.

The audio output unit 250 performs audio output based on audio data transmitted from the control unit 210 or the like. The audio output unit 250 is, for example, a speaker.

The operation input part 260 receives the command with respect to the onboard equipment 200 from a user. The operation input unit 260 is, for example, various switches, a touch sensor, a voice input device, or the like.

The vehicle information acquisition unit 270 acquires information on the state of the vehicle 20 from sensors and the like of each part of the vehicle 20.

FIG. 10 is a diagram illustrating an example of the vehicle information acquisition unit 270. In the example of FIG. 10, the vehicle information acquisition unit 270 includes a steering detection unit 271, a brake detection unit 272, a reverse detection unit 273, a GPS information reception unit 274, a vehicle speed detection unit 275, and a camera video input unit 276. The vehicle information acquisition unit 270 may include other detection units, sensors, and the like. The vehicle information acquisition unit 270 may include, for example, a fuel sensor, a water temperature sensor, a rain sensor, a road surface sensor, a visibility sensor, an atmospheric pressure sensor, and a light / dark sensor.

The steering detection unit 271 detects a steering pulse signal generated according to the steering rotation angle. The steering detection unit 271 transmits the detected steering pulse signal to the control unit 210. The steering pulse signal detected by the steering detection unit 271 is output, for example, every time the steering rotates by a predetermined angle. The steering detection unit 271 electrically detects a steering pulse signal via a terminal.

The brake detection unit 272 detects whether or not the vehicle parking brake is applied. The brake detection unit 272 notifies the control unit 210 of the detection result. The brake detection unit 272 detects whether or not the parking brake is applied, for example, based on the energized state of a switch that is turned on / off in conjunction with the movement of the parking brake lever (or parking brake pedal). For example, the brake detection unit 272 electrically detects the energization state of the switch via a terminal.

The reverse detection unit 273 detects whether or not the shift lever (or shift lever) of the vehicle is reverse (reverse). The reverse detection unit 273 notifies the control unit 210 of the detection result. For example, the reverse detection unit 273 detects whether or not the shift lever is reverse based on an energization state of a switch that is turned on / off in conjunction with the shift lever. For example, the reverse detection unit 273 electrically detects the energization state of the switch via the terminal.

The GPS information receiving unit 274 is a GPS (Global Positioning System) connected to a terminal.
The radio signal from the GPS satellite received by the antenna is received, and the received signal is transmitted to the control unit 210. The GPS is a system that measures the position of a GPS antenna based on radio waves from at least three GPS satellites out of many GPS artificial satellites that orbit the earth.

Here, a positioning system using GPS is applied as a GNSS (Global Navigation Satellite System). However, the GNSS is not limited to GPS, and a positioning system using a satellite such as Galileo or GLONASS (Global Navigation Satellite System). May be used. GNSS is a positioning system in which a positioning device mounted on a moving body measures the position of the moving body using a signal from a satellite.

The vehicle speed detector 275 detects a vehicle speed pulse signal that is generated according to the rotation angle of the axle. The vehicle speed detection unit 275 transmits the detected vehicle speed pulse signal to the control unit 210. The vehicle speed pulse signal detected by the vehicle speed detection unit 275 is a step-like pulse signal output from a vehicle speed sensor or an electronic control unit that controls the vehicle engine or brake. The vehicle speed pulse signal is output, for example, every time the axle rotates by a predetermined angle. The relationship between the vehicle speed pulse signal and the travel distance of the vehicle varies depending on the manufacturer of the vehicle, the vehicle type, the size of the wheel mounted on the vehicle, the air pressure, and the like. For this reason, the control part 210 may calibrate the vehicle speed by the detected vehicle speed pulse signal suitably based on the moving distance of the vehicle calculated based on the positioning result by GPS. The vehicle speed detector 275 electrically detects the vehicle speed pulse signal via the terminal.

The camera video input unit 276 receives a video signal from a camera (still camera or video camera) that captures the rear of the vehicle. The camera video input unit 276 transmits the received video signal to the control unit 210. The camera video input unit 276 transmits a video signal from the camera connected to the terminal to the control unit 210 when the reverse detection unit 273 detects the reverse of the vehicle.

The engine detection unit 277 detects whether or not the engine is being driven. The engine detection unit notifies the control unit 210 of the detection result. For example, the engine detection unit 277 detects whether or not the engine is driven by an energized state of a switch that is turned on / off in conjunction with the rotation of the engine. The engine detection unit 277 electrically detects the energization state of the switch via the terminal.

FIG. 11 is a diagram illustrating a configuration example of a mobile terminal. The portable terminal 30 includes a control unit 310, a communication processing unit 320, and a storage unit 330.

The control unit 310 includes a CPU (Central Processing Unit) and a ROM (Read Only Memory).
RAM (Random Access Memory) and input / output interface. The control unit 310 executes the computer program recorded in the ROM, the storage unit 330, or the like according to an instruction from the user when the power of the portable terminal 30 is turned on, or data of the memory card inserted into the card memory interface. In addition, various functions are realized using RAM, data stored in the storage unit 330, and the like. The control unit 310 executes a computer program that realizes the reservation processing unit 311, the vehicle type information acquisition processing unit 312, and the like.

The reservation processing unit 311 accepts a car use reservation from the user, and performs a user car use reservation process with respect to the management server 10.

The vehicle type information acquisition processing unit 312 receives the operation method of the vehicle function from the management server 10 and stores it in the vehicle information DB 332.

The scene determination unit 313 determines the state of the vehicle 20 and the like according to map information and the like such as information (position information and acceleration information) from the terminal information acquisition unit 370. The scene determination unit 313 guides an operation method of an appropriate function through the display unit 350 and the audio output unit 360 according to the state of the vehicle 20.

The communication processing unit 320 transmits and receives data by wireless communication. The communication processing unit 320 communicates with the management server 10 and the car 20. The communication processing unit 320 may transmit and receive data by wired communication. For example, the communication processing unit 320 may be connected to the vehicle 20 by wire to transmit and receive data.

The storage unit 330 stores information used by the control unit 310. The storage unit 330 includes a reservation information DB 331, a vehicle type information DB 332, and a map information DB 333.

The reservation information DB 331 stores reservation information included in the reservation completion notification received from the management server 10.

The vehicle type information DB 332 stores the vehicle type of the vehicle reserved by the user and the vehicle type of the vehicle frequently used by the user. The vehicle type information DB 332 can store a function operation method for each vehicle type. The function operation method for each vehicle type is acquired from, for example, the management server 10.

The map information DB 333 stores map information used for route guidance. The map information includes information such as roads and facilities.

The display unit 340 performs display based on display screen data transmitted from the control unit 310 or the like. The display unit 340 includes, for example, an LCD (Liquid Crystal Display) and a CRT (Cathode Ra).
y Tube) display and organic EL (Electroluminescence) display.

The audio output unit 350 performs audio output based on audio data transmitted from the control unit 310 or the like. The audio output unit 350 is, for example, a speaker.

The input unit 360 receives a command from a user. The input unit 360 is, for example, various switches, a touch sensor, a voice input device, or the like.

The terminal information acquisition unit 370 acquires information related to the state of the mobile terminal and the like from sensors and the like of each part of the mobile terminal 30.

FIG. 12 is a diagram illustrating an example of the vehicle information acquisition unit. In the example of FIG. 12, the terminal information acquisition unit 370 includes a GPS information reception unit 371 and an acceleration detection unit 372. The terminal information acquisition unit 370 may include other detection units, sensors, and the like.

The GPS information receiving unit 371 is a GPS (Global Positioning System) connected to a terminal.
The radio signal from the GPS satellite received by the antenna is received, and the received signal is transmitted to the control unit 310. The GNSS is not limited to the GPS, and a positioning system using a satellite such as Galileo or GLONASS (Global Navigation Satellite System) may be used.

The acceleration detection unit 372 detects an acceleration pulse signal generated according to the acceleration of the mobile terminal 30. The acceleration detection unit 372 transmits the detected acceleration pulse signal to the control unit 310. The acceleration pulse signal detected by the acceleration detection unit 372 is a pulse signal output from an acceleration sensor or the like. The acceleration of the mobile terminal 30 is calculated from the acceleration pulse signal. When the acceleration is calculated, the moving speed and moving distance of the mobile terminal 30 are calculated. The acceleration, moving speed, and moving distance of the mobile terminal 30 in the car 20 can be regarded as the same as the acceleration, moving speed, and moving distance of the car 20 unless the mobile terminal 30 is moved vigorously in the car. The control unit 310 may appropriately calibrate the acceleration based on the detected acceleration pulse signal based on the moving distance of the mobile terminal 30 calculated based on the positioning result by GPS. The acceleration detector 372 electrically detects an acceleration pulse signal via a terminal.

(Operation example)
<Operation example at the time of reservation (mobile terminal)>
FIG. 13 is a diagram illustrating an example of an operation flow of the mobile terminal at the time of reservation. FIG. 13 is an example of an operation flow when the user makes a reservation to use the car 20 in the car sharing system 1. The control unit 310 of the portable terminal 30 executes the computer program stored in the storage unit 330 when the power switch is turned on, a user operation, or the like. By executing this computer program, each functional unit of the control unit 310 is realized. The operation flow of the reservation process in FIG. 13 is started when the reservation processing function is selected by the user and the reservation processing unit 311 operates.

The reservation processing unit 311 requests the user to input a user ID and password (S101). The reservation processing unit 311 causes the display unit 340 to display a message that prompts the user ID and password to be input. The user inputs the user ID and password through the input unit 360 in accordance with the message displayed on the display unit 340.

When the user ID and password are input, the reservation processing unit 311 transmits the input user ID and password to the management server 10 via the communication processing unit 320 (S
102). The management server 10 performs user authentication based on the user ID and password transmitted from the mobile terminal 30.

The reservation processing unit 311 stands by until an authentication result is received from the management server 10 (S103). When the reservation processing unit 311 receives the authentication result (FIG. 14: S204 or S206) transmitted by the management server 10 via the communication processing unit 320 (S103; YES), the reservation processing unit 311 confirms whether or not the user has been authenticated (S104). If the user is not authenticated (S104; NO), the process returns to step S101.

When the user is authenticated (S104; YES), the reservation processing unit 311 receives the reservation status information (FIG. 14: S208) transmitted by the management server 10 via the communication processing unit 320 (S105). In the car sharing system 1, the reservation status information includes information such as a vehicle (vehicle type) that can be reserved for use, a usable period, a rental location, a return location, and the like.

The reservation processing unit 311 receives a reservation condition from the user (S106). The reservation processing unit 311 displays the received reservation status information on the display unit 340. In addition, the reservation processing unit 311 causes the display unit 340 to display a message that prompts the user to input a reservation condition based on the reservation status information. The reservation conditions are, for example, information such as rental date / time, rental location, return date / time, return location, vehicle type used. The user inputs the reservation condition through the input unit 360 in accordance with the message displayed on the display unit 340.

When the reservation condition is input, the reservation processing unit 311 transmits the input reservation condition to the management server 10 via the communication processing unit 320 (S107). The management server 10 performs a reservation process based on the reservation condition transmitted from the mobile terminal 30 and transmits a reservation completion notification to the mobile terminal 30.

The reservation processing unit 311 waits until a reservation completion notification is received from the management server 10 (S108). When the reservation processing unit 311 receives the reservation completion notification (FIG. 16: S223) transmitted from the management server 10 via the communication processing unit 320 (S108; YES), the reservation processing unit 311 reserves the reservation completion notification received from the management server 10. The information is stored in the reservation information DB 331 of the storage unit 330, and the operation flow of the reservation process ends. The reservation completion notification (reservation information) includes a rental date / time, a rental location, a return date / time, a return location, and a vehicle type used. In addition, the reservation completion notification (reservation information) has the same function and different operation method between the model of the car that the user uses frequently (or the model of the car owned by the user) and the model of the reserved car. Information can be included.

With the operation flow of FIG. 13, the user can make a reservation for using the car 20 by the portable terminal 30. The reservation information DB 331 of the storage unit 330 of the portable terminal 30 has the same function between the vehicle type (or the vehicle type owned by the user) that is frequently used by the user and the reserved vehicle type. Operation method information may be stored.

<Operation example during reservation (management server)>
FIGS. 14, 15 and 16 are diagrams showing an operation flow of the management server at the time of reservation. FIGS. 14, 15, and 16 are examples of an operation flow of the management server 10 when a user makes a reservation to use the car 20 in the car sharing system 1. "A1" in FIG. 14 is connected to "A1" in FIG. "A2" in FIG. 15 is connected to "A2" in FIG.

The control unit 110 of the management server 10 executes the computer program stored in the storage unit 130 when the power is turned on. By executing this computer program, each functional unit of the control unit 110 is realized. The operation flow of FIG.
By receiving the user ID and password from the portable terminal 30, the reservation management unit 311 operates and the process is started.

The reservation management unit 111 of the management server 10 receives the user ID and password (FIG. 13: S102) transmitted by the mobile terminal 30 via the communication processing unit 120. The reservation management unit 111 searches the user information DB 131 in the storage unit 130 using the received user ID as a search key.

If the received user ID does not exist in the user information DB 131, it is determined that there is no registration of the user corresponding to the user ID (S202; NO), and the process proceeds to step S203. The received user ID exists in the user information DB 131, but when the received password is different from the password corresponding to the user ID stored in the user information DB 131, it is the same as when there is no registration (S202; NO). Then, the process proceeds to step S203. In step S203, the reservation management unit 111 determines that the received user ID and password cannot be authenticated (authentication NG). The reservation management unit 111 transmits an authentication result indicating that the mobile terminal 30 cannot be authenticated (authentication NG) (S204), and the process ends.

On the other hand, if the received user ID exists in the user information DB 131 and the received password matches the password corresponding to the user ID stored in the user information DB 131, the user corresponding to the user ID is registered. The process proceeds to step S205. In step S205, the reservation management unit 111 determines to authenticate the received user ID and password (authentication OK). The reservation management unit 111 transmits an authentication result indicating that the authentication is successful (authentication OK) to the mobile terminal 30 (S206).

The reservation management unit 111 extracts reservation status information from the reservation information DB (S207). In the car sharing system 1, the reservation status information includes information such as a car that can be reserved for use (vehicle type), a period during which the use can be reserved, a rental location, a return location, and the like. The reservation management unit 111 transmits the extracted reservation status information to the mobile terminal 30 via the communication processing unit 120 (S208).

The reservation management unit 111 stands by until a reservation condition is received from the mobile terminal 30 (FIG. 15: S209). If the reservation condition cannot be received from the portable terminal 30 even after a predetermined time has elapsed, the reservation management unit 111 may end the process.

The reservation management unit 111 receives the reservation condition (FIG. 13: S107) transmitted by the mobile terminal 30 via the communication processing unit 120 (S209; YES).

Next, the usage frequency determination unit 112 determines the usage frequency of the user of the vehicle (vehicle type) reserved by the user corresponding to the user ID. The usage frequency determination unit 112 searches the usage history information DB 133 using the user ID as a search key (S210). The usage frequency determination unit 112 acquires the usage history of the user's car corresponding to the user ID. The usage frequency determination unit 112 searches the user information DB 131 using the user ID as a search key, and acquires the model of the user's car (and the presence / absence of the car) corresponding to the user ID.

The usage frequency determination unit 112 checks whether or not the user owns the car (S211). When the user owns the car (S211; YES), the use frequency determination unit 112 checks whether or not the vehicle type reserved by the user is the same as the vehicle type of the user's own car (S212). When the vehicle type of the vehicle reserved by the user is the same as the vehicle type of the user's own car (S212; YES), the use frequency determination unit 112 proceeds to step S214.

When the user owns a car (S211; YES), or when the car model reserved by the user is not the same as the car model of the user's car (S212; NO), the use frequency determination unit 112 Based on the use history of the user's car, it is determined whether or not the number of uses of the car reserved by the user is less than a predetermined number (n times) (S213). When the number of uses of the user is less than the predetermined number (n times) (S213; YES), the process proceeds to step S215. When the number of uses of the user is equal to or greater than the predetermined number (n) (S213; NO), the process proceeds to step S214. The usage frequency determination unit 112 may determine whether or not the number of uses from the present to a predetermined period before exceeds a predetermined number. In addition, when the use of the vehicle type of the vehicle reserved by the user is periodic based on the use history of the user's car, the use frequency determination unit 112 sets the use frequency of the user to a predetermined number (n times). It may be considered equivalent to the above case.

In step S214, the usage frequency determination unit 112 determines that the vehicle type reserved by the user is a vehicle type with a high usage frequency of the user. On the other hand, in step S215, the usage frequency determination unit 112 determines that the vehicle type reserved by the user is a vehicle type with a low usage frequency of the user. These determination results can be stored in the storage unit 130.

The vehicle type function difference extraction unit 113 confirms whether the vehicle type reserved by the user is a vehicle type that is frequently used by the user (FIG. 16: S216). If the vehicle type reserved by the user is a vehicle type that is frequently used by the user (S216; YES), the process proceeds to step S221.

The vehicle type function difference extraction unit 113 checks whether or not the user owns the car (S217). When the user owns the car (S217; YES), the vehicle type function difference extraction unit 113 displays the function of the car model of the user and the operation method thereof, and the function of the car model reserved by the user. And its operation method are extracted from the vehicle type operation method DB 134. The vehicle type function difference extraction unit 113 has the same function and a different operation method between the extracted function and the operation method of the vehicle type of the user's own car and the vehicle type reserved by the user. The operation method is extracted (S218).

When the user does not own the car (S217; NO), the vehicle type function difference extraction unit 113 uses the most frequently used vehicle type of the vehicle used by the user based on the user's vehicle use history. A high vehicle type is extracted (S219), and the process proceeds to step S222.

The vehicle type function difference extraction unit 113 extracts the function of the vehicle type extracted in step S219 and the operation method thereof, and the function of the vehicle type reserved by the user and the operation method thereof from the vehicle type operation method DB 134. The vehicle type function difference extraction unit 113 has the same function and a different operation method between the extracted model and the operation method among the extracted model and the model of the vehicle reserved by the user. The operation method is extracted (S220), and the process proceeds to step S222.

In step S221, the reservation management unit 111 registers the reservation condition received in step S209 as reservation information in the reservation information DB 132. The reservation information to be registered includes information on lending date / time, lending location, return date / time, return location, and vehicle type used.

In step S222, the reservation management unit 111 registers the reservation condition received in step S209 as reservation information in the reservation information DB 132. Reservation information to be registered includes lending date and time, lending location, return date and time, return location, information on the type of vehicle used, information on the type of vehicle that the user uses frequently (or the type of vehicle owned by the user), and The information extracted in step S218 or step 220 is included. The reservation information may include the determination result (vehicle type with high or low usage frequency) in step S214 or step S215.

In step S221 or step S222, the user's reservation for using the vehicle is confirmed.

The reservation management unit 111 transmits a reservation completion notification including the reservation information stored in the reservation information DB 132 in step S221 or step S222 to the mobile terminal 30 (S223).

According to the operation flows of FIGS. 14, 15, and 16, the management server 10 can register the use reservation of the user's car 20. The management server 10 determines whether the use frequency of the vehicle type of the car 20 reserved by the user is high based on the use history of the user. The management server 10 extracts a function having a different operation method between the vehicle type of the vehicle that is frequently used by the user and the vehicle type of the reserved vehicle. The management server 10 transmits the extracted function and its operation method to the mobile terminal 30.

<Operation example during driving (car)>
FIG. 17 is a diagram illustrating an example of an operation flow of a car during driving. FIG. 17 is an example of an operation flow when driving a car reserved by the user. The operation flow of FIG. 17 is started when the accessory power supply is turned on by the user (ACC ON).

When the accessory power supply of the vehicle 20 is turned on, the control unit 210 of the vehicle-mounted device 200 of the vehicle 20 executes the computer program stored in the storage unit 230. By executing this computer program, each functional unit of the control unit 210 is realized.

The vehicle type information acquisition processing unit 211 of the on-vehicle device 200 searches for the portable terminal 30 that can communicate with the on-vehicle device 200. The vehicle type information acquisition processing unit 211 transmits identification information for identifying the vehicle 20 via the communication processing unit 220 and waits for a response from the portable terminal 30. When the vehicle type information acquisition processing unit 211 does not receive a response transmitted from the mobile terminal 30 for a predetermined time, it is determined that there is no mobile terminal 30 that can communicate with the vehicle-mounted device (S301; NO), and the process proceeds to step S302. When the vehicle type information acquisition processing unit 211 receives a response transmitted

from the mobile terminal 30 via the communication processing unit 220. It is determined that there is a mobile terminal 30 that can communicate with the vehicle-mounted device 200 (S301; YES), and the process proceeds to step S304. Proceed to

In step S302, the vehicle type information acquisition processing unit 211 checks whether or not the vehicle-mounted device 200 is equipped with a communication module that can communicate with the management server 10 (S302). When the vehicle-mounted device 200 is not equipped with a communication module that can communicate with the management server 10 (S302; NO), the process ends. When the vehicle-mounted device 200 is equipped with a communication module that can communicate with the management server 10 (S302; YES), the vehicle type information acquisition unit 211 sends identification information for identifying the vehicle 20 to the communication server 220. To send through. When the management server 10 acquires information for identifying the car 20 from the car 20, the management server 10 extracts the user who has reserved the use of the car 20 at the current time from the reservation information about the car 20. The management server 10 extracts a function having the same function and a different operation method between the vehicle type frequently used by the user who reserves the use of the vehicle 20 and the vehicle type of the vehicle 20, and the operation method. . The management server 10 transmits the extracted information to the car 20. The vehicle type information acquisition unit 211 receives the information transmitted by the management server 10 via the communication processing unit 220. The vehicle type information acquisition unit 211 stores the information received from the management server 10 in the operation method difference information DB 231 (S303).

In step S304, the vehicle type information acquisition processing unit 211 authenticates the portable terminal 30 (S304). The vehicle type information acquisition processing unit 211 authenticates the portable terminal 30 by exchanging the terminal identification ID with the portable terminal 30, for example.

When authenticating the mobile terminal 30, the vehicle type information acquisition processing unit 211 requests reservation information from the mobile terminal 30. When the mobile terminal 30 is requested for reservation information from the vehicle type information acquisition processing unit 211, the mobile terminal 30 extracts the requested reservation information from the reservation information DB 331 of the storage unit 330. The portable terminal 30 transmits the extracted reservation information via the communication processing unit 320. When the vehicle type information acquisition unit 211 receives the reservation information from the portable terminal 30 via the communication processing unit 220, the vehicle type information acquisition unit 211 stores the received reservation information in the reservation information DB 232 (S305). From the reservation information, the vehicle type information acquisition unit 211 uses the same function and the different operation method between the vehicle type of the vehicle that is frequently used by the user (or the model of the vehicle owned by the user) and the type of the reserved vehicle. Information is extracted and stored in the operation method difference information DB 231. The vehicle type information acquisition unit 211 includes, in the reservation information, different operation methods with the same function between the vehicle type (or the vehicle type owned by the user) frequently used by the user and the reserved vehicle type. When the information is not included, it is determined that the model of the car reserved by the user (that is, the car 20) is the model of the car that is frequently used by the user.

The scene determination unit 212 determines the state of the vehicle 20 and the like according to information from the vehicle information acquisition unit 270 of the vehicle 20. The scene determination unit 212 extracts an appropriate function in this state or the like according to the state or the like of the car 20. When the extracted function is stored in the operation method difference information DB 231 as a function having different operation methods for the vehicle 20 and the vehicle type of the user that is frequently used by the scene determination unit 212. The operation method of the function is output to the display unit 240 and the audio output unit 250 to guide the user (S306). The operation method of the guided function is the operation method of the function of the car 20. When there are a plurality of operation methods to be guided, guidance with higher priority is given priority. The priority of the operation method to be guided can be set in advance for each vehicle state and each operation method. The operation of the scene determination unit 212 will be described in detail later.

When the accessory power supply of the car 20 is not OFF (S307; NO), the process returns to step S308. When the accessory power supply of the vehicle 20 is turned off (S307; YES), the process ends.

Here, the management server 10 has a function having the same function and a different operation method between the vehicle type of the vehicle 20 and a vehicle type that is frequently used by the user who reserves the use of the vehicle 20, and the operation method thereof. is extracted. However, the in-vehicle device 200 has a function having the same function and a different operation method between the vehicle type of the vehicle 20 and a vehicle type frequently used by the user who reserves the use of the vehicle 20 and the operation method thereof. It may be extracted. At this time, in step S303 or step S305, the vehicle type information acquisition processing unit 211 of the vehicle-mounted device 200 is connected to the management server 10, and all the information on the operation method of the function of the vehicle type of the vehicle 20 and the usage frequency of the user are obtained. Requests all information on how to operate the functions of high car models. The management server 10 extracts from the vehicle type operation method DB 134 information on the operation method of the function of the vehicle type of the vehicle 20 and information on the operation method of the function of the vehicle type that is frequently used by the user. The management server 10 transmits the extracted information to the vehicle-mounted device 200. The vehicle type information acquisition unit 211 of the vehicle-mounted device 200 is identical between the received extracted function and its operation method between the vehicle type of the car 20 reserved by the user and the function of the vehicle type that the user uses frequently. Functions having different operation methods and their operation methods are extracted and stored in the operation method difference information DB 231. In this configuration, since the management server 10 does not extract the operation method difference, the load on the management server 10 is reduced.

In addition, the mobile terminal 30 has a function having the same function and a different operation method between the vehicle type of the vehicle 20 and a vehicle type frequently used by a user who reserves the use of the vehicle 20 and the operation method thereof. It may be extracted. At this time, similarly to the case where the vehicle type information acquisition unit 312 of the vehicle-mounted device 200 receives the operation method of the function from the management server 10 and extracts the operation method difference, the vehicle type information acquisition processing unit 312 of the mobile terminal 30 The operation method difference is extracted and stored in the vehicle type information DB 322.

Further, the information on the type of the vehicle reserved by the user and the information on the type of the vehicle that is frequently used by the user are directly input by the user through the operation of the input unit 360 of the mobile terminal 30 or the vehicle-mounted device 200. Input may be performed via the unit 260.

According to the operation flow of FIG. 17, the vehicle-mounted device 200 of the car 20 acquires information on the difference in operation method between the mobile terminal 30 or the management server 10 and the vehicle type of the reservation user that is frequently used. The vehicle-mounted device 200 determines the state of the vehicle 20 and the like according to information from the vehicle information acquisition unit 270. The vehicle-mounted device 200 guides the user through different operation methods for the vehicle 20 and the vehicle type of the vehicle that is frequently used by the user, depending on the state of the vehicle 20 and the like. According to the vehicle-mounted device 200, when a user drives a low-use vehicle, the user can be driven without making a mistake in the operation method by being guided by an operation method different from the vehicle type of the high-use vehicle. .

<Operation example of the car scene determination unit>
FIG. 18 is a diagram illustrating an example of an operation flow of the car scene determination unit. The operation flow in FIG. 18 is an operation flow for explaining step S306 in FIG. 17 in detail.

The scene determination unit 212 always acquires information on the state of the vehicle 20 from the vehicle information acquisition unit 270 of the vehicle 20. The scene determination unit 212 determines whether or not the state of the vehicle 20 is a state where an operation method for some function should be guided (S401). That is, the scene determination unit 212 determines whether or not the function corresponding to the state of the car 20 is in the function information DB 234. When the state of the car 20 is not a state where any operation method should be guided (S401; NO), the process ends. In other words, the scene determination unit 212 ends the process when there is no function corresponding to the state of the vehicle 20 or the like in the function information DB 234.

When the state of the vehicle 20 is a state where the operation method of the function should be guided (S401; YES), that is, when the function corresponding to the state of the vehicle 20 is in the function information DB 234, the scene determination unit 212 The function corresponding to the state or the like is extracted from the function information DB 234. The scene determination unit 212 confirms whether the operation method of the extracted function is stored in the operation method difference information DB 231 (S402). When the operation method of the function to be guided is not stored in the operation method difference information DB 231 as a

function having different operation methods for the vehicle 20 and the vehicle type of the user that is frequently used (S402; NO), processing Ends. The operation method that is not stored in the operation method difference information DB 231 as a function having different operation methods for the vehicle 20 and the vehicle type that is frequently used by the user is a vehicle type that is frequently used by the vehicle and the user. The operation method does not change. Therefore, the operation method of the function need not be guided. This is because the user is considered to recognize the operation method of the function.

When the operation method to be guided is stored in the operation method difference information DB 231 (S402; YES), the scene determination unit 212 confirms whether there are a plurality of operation methods to be guided (S404). When there are a plurality of operation methods to be guided (S403; YES), the scene determination unit 212 gives priority to an operation method with a high priority to be guided (S404). When there are a plurality of operation methods to be guided, the driver may be confused if guidance is performed at a time. Therefore, guidance is performed from an operation method with a high priority to be guided. When there are not a plurality of operation methods to be guided (S403; NO), the scene determination unit 212 guides the operation methods to be guided stored in the operation method difference information DB 231 (S405). The display unit 250 and the audio output unit 260 can be used for guidance of the operation method.

According to the operation flow of FIG. 18, the scene determination unit 212 acquires information on the state of the vehicle 20 from the vehicle information acquisition unit 270. The scene determination unit 212 extracts an appropriate function according to the state of the vehicle 20, and when the function is stored in the operation method difference information DB 231 as an operation method difference, guides the operation method of the function. When there are a plurality of operation methods to be guided, the scene determination unit 212 gives priority to the operation method with a high priority.

<Specific example of operation of scene determination unit>
<When starting the engine>
FIG. 19 is a diagram illustrating an example of an operation flow of the vehicle scene determination unit when the engine is started. The operation flow in FIG. 19 is an operation flow for explaining one specific example of step S306 in FIG.

The scene determination unit 212 acquires information related to driving of the engine of the vehicle 20 from the vehicle information acquisition unit 270 of the vehicle 20. The engine detection unit 277 of the vehicle information acquisition unit 270 detects whether or not the engine is driving and notifies the scene determination unit 212 of the control unit 210. The scene determination unit 212 determines whether the engine has been started based on the detection result from the engine detection unit 277 (S501). If the engine has not been started (S501; NO), the processing in FIG. 19 ends.

When the engine is started (S501; YES), the scene determination unit 212 confirms whether or not the state of the vehicle "the engine is started" is stored in the function information DB 234 (S502). When the state of the vehicle "the engine is started" is not stored in the function information DB 234 (S502; NO), the process of FIG. 19 ends.

When the state of the vehicle "the engine is started" is stored in the function information DB 234 (S502; YES), the scene determination unit 212 corresponds to the function corresponding to "the engine is started" from the function information DB 234. To extract. This extracted function is a function to be guided in the current state of the car. Here, for example, it is assumed that a shift lever, a side brake, a seat adjustment function, and a mirror adjustment function are extracted.

The scene determination unit 212 confirms whether or not the extracted function is stored in the operation method difference information DB 231 (S503). When the extracted function is not stored in the operation method difference information DB 231 (S503; NO), the process of FIG. 19 ends. The fact that the extracted function is not stored in the operation method difference information DB 231 means that there is no difference in the operation method of the extracted function between the vehicle 20 and a vehicle that is frequently used by the user.

When the extracted function is stored in the operation method difference information DB 231 (S503; YES), the scene determination unit 212 extracts an operation method corresponding to the extracted function from the operation method difference information DB 231. Here, for example, it is assumed that a shift lever operation method, a side brake operation method, a seat adjustment switch operation method, and a mirror adjustment switch operation method are extracted. The operation method may include information on positions of levers, switches, and the like. The operation method extracted here is an operation method in the vehicle 20. The operation method extracted here means that there is a difference in operation method between the vehicle 20 and a vehicle that is frequently used by the user.

The scene determination unit 212 determines whether there are a plurality of extracted operation methods (S504). When there are a plurality of extracted operation methods (S504; YES), the scene determination unit 212 gives priority to an operation method with a high priority and guides it (S505). The priority is stored in the operation method difference information DB 231 or the function information DB 234. Even if the operation methods have different priorities, the scene determination unit 212 may guide these operation methods at the same time if they can be guided at the same time. The scene determination unit 212 guides the operation method via the display unit 250 and the audio output unit 260. For example, the scene determination unit 212 illustrates positions of a shift lever, a side brake, and the like on the display unit 250 and guides the operation method by voice.

If there is one extracted operation method (S504; NO), the scene determination unit 212 guides the extracted operation method via the display unit 240 and the audio output unit 250.

According to the operation flow of FIG. 19, when the scene determination unit 212 acquires engine start information from the vehicle information acquisition unit 270, the scene determination unit 212 extracts a function corresponding to the engine start. The scene determination unit 212 confirms whether or not the extracted function is stored in the operation method difference information DB 231. When the extracted function is stored in the operation method difference information DB 231, the scene determination unit 212 operates the function (shift lever operation method, side brake operation method, seat adjustment switch operation method, mirror adjustment switch, mirror adjustment switch , Etc.). When there are a plurality of operation methods to be guided, the operation method with higher priority is given priority.

<When refueling>
Here, a case where the vehicle 20 stops at a gas station will be described.

When the vehicle 20 is stopped at the gas station, the vehicle speed detection unit 272 of the vehicle information acquisition unit 270 of the vehicle 20 detects that the vehicle speed is 0 and notifies the control unit 210 of it. The GPS information receiving unit 274 detects the current position and notifies the control unit 210 of the current position. The scene determination unit 212 refers to the map information DB 233 and recognizes that the current position received from the GPS information reception unit 274 is a gas station. Therefore, the scene determination unit 212 determines that the state of the car 20 is a state stopped at the gas station. The scene determination unit 212 extracts a function corresponding to the "state stopped at the gas station" from the function information DB 234. The scene determination unit 212 confirms whether or not the extracted function is stored in the operation method difference information DB 231. When stored, the scene determination unit 212 guides the operation method of the car 20 corresponding to the function via the display unit 240 and the audio output unit 250. The scene determination unit 212, for example, guides the position of the filler opening and the opening / closing operation method of the filler opening, which are different between the car 20 and a car that is frequently used by the user.

In addition, the scene determination unit 212 may notify the position of the fuel filler port as an operation method of a function corresponding to a state where the current position of the vehicle is near the gas station and the vehicle speed is equal to or lower than a predetermined value. By doing in this way, the position of the fuel filler opening can be recognized before stopping, and the user can stop the vehicle at an appropriate position.

<Others>
The scene determination unit 212 can notify the operation method based on the information from the vehicle information acquisition unit 270, the operation method difference information DB 231, the function information DB 234, the map information DB 233, and the like.

The scene determination unit 212 determines the state of the vehicle such as driving on an expressway, driving on a frozen road, parking, rainy weather, before turning right, before turning left, driving slowly, driving on a hill, car washing, encountering an accident, and malfunctioning. It detects based on information from the information

acquisition part 270 etc., and extracts an appropriate function. The scene determination unit 212 guides the operation method of the function in the vehicle 20 when the operation method of the extracted function is different between the vehicle type of the vehicle 20 and the vehicle type of the vehicle that is frequently used by the user.

(Modification)
In the above example, the operation method is guided by the vehicle-mounted device 200, but here, the configuration of guiding the operation method by the mobile terminal 30 will be described. The mobile terminal 30 receives, from the management server 10, information on the difference in operation method between the vehicle type reserved by the user and the vehicle type of the vehicle that is frequently used by the user (or the vehicle owned by the user), is received and stored in the reservation information DB 331.

<Example of how the mobile terminal guides the operation>
FIG. 20 is a diagram illustrating an example of an operation flow of the scene determination unit of the mobile terminal. The operation flow in FIG. 20 is started when the mobile terminal 30 is turned on and the scene determination process is selected by a user operation. When the user gets on the car 20, the user can cause the scene determination process to be executed when the car 20 is boarded by turning on the power of the portable terminal 30 or selecting the scene determination process. It is assumed that information corresponding to the information stored in the function information DB 234 is stored in the mobile terminal 30 in advance.

The scene determination unit 313 of the mobile terminal 30 always acquires information on the state of the mobile terminal 30 (for example, position information, acceleration information, etc.) from the terminal information acquisition unit 270 of the mobile terminal 30. The scene determination unit 313 determines whether or not the state of the mobile terminal 30 is a state in which an operation method for a function of the vehicle 20 should be guided (S1101). When the state of the portable terminal 30 is not a state where any operation method should be guided (S1101; NO), the process ends.

When the state of the mobile terminal 30 is a state where the operation method of the function of the car 20 should be guided (S1101; YES), the scene determination unit 313 determines the appropriate vehicle in this state according to the state of the mobile terminal 30 and the like. Twenty functions are extracted. The scene determination unit 313 checks whether the extracted function operation method is stored in the reservation information DB 331 (S1102). When the operation method of the function to be guided is not stored in the reservation information DB 331 as a function having different operation methods for the vehicle 20 and the vehicle type of the user that is frequently used (S1102; NO), the processing is ended. To do. The operation method that is not stored in the reservation information DB 331 as a function having different operation methods for the vehicle 20 and the vehicle type that is frequently used by the user is the vehicle 20 and the vehicle type that is frequently used by the user. The operation method does not change. Therefore, the operation method of the function need not be guided. This is because the user is considered to recognize the operation method of the function.

When the operation method to be guided is stored in the reservation information DB 331 (S1103; YES), the scene determination unit 313 confirms whether or not there are a plurality of operation methods to be guided (S1104). When there are a plurality of operation methods to be guided (S1103; YES), the scene determination unit 313 gives priority to an operation method with a high priority to be guided (S1104). When there are a plurality of operation methods to be guided, the driver may be confused if guidance is performed at a time. Therefore, guidance is performed from an operation method with a high priority to be guided. When there are not a plurality of operation methods to be guided (S1103; NO), the scene determination unit 313 guides the operation methods to be guided stored in the reservation information DB 331 (S1105). For the guidance of the operation method, the display unit 350 and the audio output unit 360 can be used.

According to the operation flow of FIG. 20, the scene determination unit 313 of the mobile terminal 30 acquires information related to the state of the mobile terminal 30 from the terminal information acquisition unit 370. The scene determination unit 313 extracts an appropriate function according to the state of the vehicle 20, and when the function is stored in the reservation information DB 331 as an operation method difference, guides the operation method of the function. When there are a plurality of operation methods to be guided, the scene determination unit 313 gives priority to the operation method with a high priority. The mobile terminal 30 can guide the operation method of the function of the car 20, which is different in the operation method of the function from the type of the frequently used car depending on the state of the mobile terminal 30. In addition, the mobile terminal 30 can guide the operation method of the function of the car 20 without communicating with the vehicle-mounted device 200 of the car 20.

(Effect of embodiment)
When the vehicle-mounted device 200 or the mobile terminal 30 of the present embodiment drives a vehicle with a low usage frequency, the operation method is notified of a function different from the vehicle with a high usage frequency. Therefore, according to the present embodiment, the driver can shorten the time until he / she gets used to the operation of the infrequently used car, and can use the infrequently used car conveniently. In addition, since the driver can easily recognize different functions between a frequently used car and a less frequently used car, the driver feels more comfortable when driving a less frequently used car.

DESCRIPTION OF SYMBOLS 1 Car sharing system 10 Management server 110 Control part 111 Reservation management part 112 Usage frequency determination part 113 Vehicle type function difference extraction part 120 Communication processing part 130 Storage part 131 User information DB
132 Reservation information DB
133 Usage history DB
134 Vehicle operation method DB
20 vehicles 210 control unit 211 vehicle type information acquisition processing unit 212 scene determination unit 220 communication processing unit 230 storage unit 231 operation method difference information DB
232 Reservation information DB
233 Map information DB
234 Function information DB
240 display unit 250 audio output unit 260 operation input unit 270 vehicle information acquisition unit 271 steering detection unit 272 brake detection unit 273 reverse detection unit 274 GPS information reception unit 275 vehicle speed detection unit 276 camera image input unit 277 engine detection unit 30 portable terminal 310 Control unit 311 Reservation processing unit 312 Vehicle type information acquisition processing unit 313 Scene determination unit 320 Communication processing unit 330 Storage unit 331 Reservation information DB
332 Car Model information DB
333 Map information DB
340 Display unit 350 Audio output unit 360 Input unit 370 Terminal information acquisition unit 371 GPS information reception unit 372 Acceleration detection unit

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Priority And Related Applications

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Application	Priority date	Filing date	Title
JP2010224285A	2010-10-01	2010-10-01	Driving support apparatus

Applications Claiming Priority (1)

Application	Filing date	Title
JP2010224285A	2010-10-01	Driving support apparatus

Legal Events

Date	Code	Title	Description
2013-09-05	A621	Written request for application examination	**Free format text:** JAPANESE INTERMEDIATE CODE: A621 **Effective date:** 20130904
2014-06-04	A977	Report on retrieval	**Free format text:** JAPANESE INTERMEDIATE CODE: A971007 **Effective date:** 20140604
2014-06-18	A131	Notification of reasons for refusal	**Free format text:** JAPANESE INTERMEDIATE CODE: A131 **Effective date:** 20140617
2014-10-15	A02	Decision of refusal	**Free format text:** JAPANESE INTERMEDIATE CODE: A02 **Effective date:** 20141014

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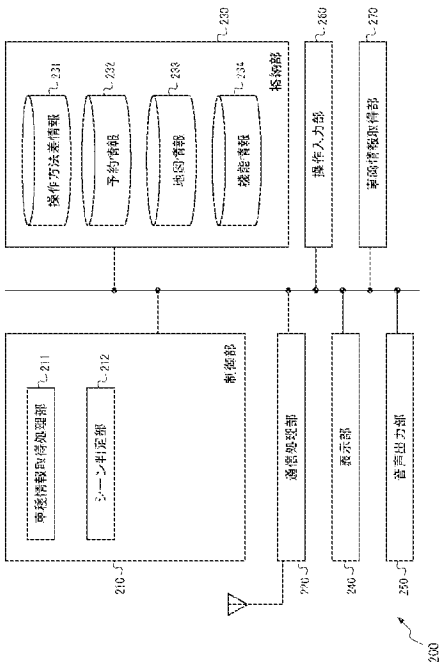
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(71)出願人　000237592
富士通テン株式会社
兵庫県神戸市兵庫区御所通１丁目２番２８号
(71)出願人　000003207
トヨタ自動車株式会社
愛知県豊田市トヨタ町１番地
(74)代理人　100100549
弁理士　川口　嘉之
(74)代理人　100090516
弁理士　松倉　秀実
(74)代理人　100106622
弁理士　和久田　純一
(74)代理人　100113608
弁理士　平川　明

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(54)【発明の名称】運転支援装置

(57)【要約】
【課題】第１車両において、第２車両と異なる第１車両の操作方法を案内する運転支援装置を提供する。
【解決手段】複数の機能を有する第１車両の機能毎の操作方法と、前記第１車両の機能に対応する第１車両の状態とを格納する記憶部と、同一の機能において、第１車両における操作方法と第２車両における操作方法とが、異なる機能を、サーバ装置から取得し、前記記憶部に格納する取得部と、前記第１車両の状態を取得する車両状態取得部と、前記車両状態取得部が取得した前記第１車両の状態に対応する機能を、前記記憶部から抽出する第２抽出部と、第２抽出部が抽出した機能が、前記取得部が取得した機能に含まれる場合、当該機能の前記第１車両における操作方法を出力する出力部と、を備える運転支援装置。
【選択図】図７



【特許請求の範囲】
【請求項１】
複数の機能を有する第１車両の機能毎の操作方法と、前記第１車両の機能に対応する第１車両の状態とを格納する記憶部と、
同一の機能において、第１車両における操作方法と第２車両における操作方法とが、異なる機能を、サーバ装置から取得し、前記記憶部に格納する取得部と、
前記第１車両の状態を取得する車両状態取得部と、
前記車両状態取得部が取得した前記第１車両の状態に対応する機能を、前記記憶部から抽出する第２抽出部と、
第２抽出部が抽出した機能が、前記取得部が取得した機能に含まれる場合、当該機能の前記第１車両における操作方法を出力する出力部と、
を備える運転支援装置。
【請求項２】
複数の機能を有する第１車両の機能毎の操作方法と、前記第１車両の機能に対応する第１車両の状態を格納する記憶部と、
複数の機能を有する第２車両の機能毎の操作方法をサーバ装置から取得し、前記記憶部に格納する取得部と、
前記記憶部から、同一の機能において、第１車両における操作方法と第２車両における操作方法とが、異なる機能を抽出する第１抽出部と、
前記第１車両の状態を取得する車両状態取得部と、
前記車両状態取得部が取得した前記第１車両の状態に対応する機能を前記記憶部から抽出する第２抽出部と、
第２抽出部が抽出した機能が、前記第１抽出部が抽出した機能に含まれる場合、当該機能の前記第１車両における操作方法を出力する出力部と、
を備える運転支援装置。
【発明の詳細な説明】
【技術分野】
【０００１】
本発明は、車両の機能の操作方法を通知する運転支援装置に関する。
【背景技術】
【０００２】
車（車両）には、様々な機能が搭載されている。これらの機能の操作方法は、車の車種や年式等に依存するため、車ごとに異なることが一般的である。このため、レンタカーや、カーシェアリングを利用して、普段使用しない車を運転する場合、運転者は、運転前に、マニュアルなどで、普段使用する車と比べて、相違する機能の操作方法などを確認する。
【先行技術文献】
【特許文献】
【０００３】
【特許文献１】特表２００９－５１４７３４号公報
【特許文献２】特開２００８－２９６６０６号公報
【特許文献３】特開２００４－１０８９３３号公報
【特許文献４】特開平６－４４４９１号公報
【発明の概要】
【発明が解決しようとする課題】
【０００４】
しかしながら、運転者が車の機能の操作方法を知りたいのは、運転時である。運転者が、車の運転中にマニュアルを確認することは、通常できない。そのため、運転者が、普段使用しない車の操作を誤り、事故等に繋がりかねない。
【０００５】

本発明は、第１車両において、第２車両と異なる第１車両の操作方法を案内する運転支援装置を提供することを目的とする。

【課題を解決するための手段】

【０００６】

本発明は、上記課題を解決するために、以下の手段を採用する。

【０００７】

即ち、本発明の第１の態様は、

複数の機能を有する第１車両の機能毎の操作方法と、前記第１車両の機能に対応する第１車両の状態とを格納する記憶部と、

同一の機能において、第１車両における操作方法と第２車両における操作方法とが、異なる機能を、サーバ装置から取得し、前記記憶部に格納する取得部と、

前記第１車両の状態を取得する車両状態取得部と、

前記車両状態取得部が取得した前記第１車両の状態に対応する機能を、前記記憶部から抽出する第２抽出部と、

第２抽出部が抽出した機能が、前記取得部が取得した機能に含まれる場合、当該機能の前記第１車両における操作方法を出力する出力部と、

を備える運転支援装置である。

【０００８】

本発明の第２の態様は、

複数の機能を有する第１車両の機能毎の操作方法と、前記第１車両の機能に対応する第１車両の状態を格納する記憶部と、

複数の機能を有する第２車両の機能毎の操作方法をサーバ装置から取得し、前記記憶部に格納する取得部と、

前記記憶部から、同一の機能において、第１車両における操作方法と第２車両における操作方法とが、異なる機能を抽出する第１抽出部と、

前記第１車両の状態を取得する車両状態取得部と、

前記車両状態取得部が取得した前記第１車両の状態に対応する機能を前記記憶部から抽出する第２抽出部と、

第２抽出部が抽出した機能が、前記第１抽出部が抽出した機能に含まれる場合、当該機能の前記第１車両における操作方法を出力する出力部と、

を備える運転支援装置である。

【発明の効果】

【０００９】

本発明によれば、第１車両において、第２車両と異なる第１車両の操作方法を案内する運転支援装置を提供することができる。

【図面の簡単な説明】

【００１０】

【図１】図１は、本実施形態のカーシェアリングシステム構成の例を示す図である。

【図２】図２は、管理サーバの構成例を示す図である。

【図３】図３は、ユーザ情報ＤＢの例を示す図である。

【図４】図４は、予約情報ＤＢの例を示す図である。

【図５】図５は、使用履歴情報ＤＢの例を示す図である。

【図６】図６は、車種別操作方法ＤＢの例を示す図である。

【図７】図７は、車の車載器の構成例を示す図である。

【図８】図８は、操作方法差情報ＤＢの例を示す図である。

【図９】図９は、機能情報ＤＢ２３４の例を示す図である。

【図１０】図１０は、車両情報取得部の例を示す図である。

【図１１】図１１は、携帯端末の構成例を示す図である。

【図１２】図１２は、車両情報取得部の例を示す図である。

【図１３】図１３は、予約時における携帯端末の動作フローの例を示す図である。

【図１４】図１４は、予約時における管理サーバの動作フロー（１）を示す図である。
【図１５】図１５は、予約時における管理サーバの動作フロー（２）を示す図である。
【図１６】図１６は、予約時における管理サーバの動作フロー（３）を示す図である。
【図１７】図１７は、運転時における車の動作フローの例を示す図である。
【図１８】図１８は、シーン判定部の動作フローの例を示す図である。
【図１９】図１９は、エンジン始動時の車のシーン判定部の動作フローの例を示す図である。
【図２０】図２０は、携帯端末のシーン判定部の動作フローの例を示す図である。
【発明を実施するための形態】
【００１１】
以下、図面を参照して、本発明にかかるカーシェアリングシステムについて説明する。実施形態の構成は例示であり、本発明は開示の実施形態の構成に限定されない。
【００１２】
〔実施形態１〕
本実施形態のカーシェアリングシステムについて説明する。カーシェアリングシステムは、１台又は複数台の車を、複数の利用者で、事前の予約に基づいて使用するシステムである。カーシェアリングシステムの利用者は携帯端末を使用して、管理サーバにアクセスし、車の使用を予約する。利用者が当該車を使用している際に、当該車の車載器は、管理サーバ及び携帯端末と通信して、適切な案内を利用者に対して行う。車は、乗用車、貨物車（例えば、トラック）、乗合車（例えば、バス）などの車両を含む。
【００１３】
本実施形態のカーシェアリングシステムは、複数の車を不特定の利用者に貸し出す、一般のレンタカーシステムに適用することが可能である。また、本実施形態のカーシェアリングシステムは、車を所有する利用者が別の車に乗り換えた場合に適用することも可能である。
【００１４】
（構成例）
図１は、本実施形態のカーシェアリングシステム構成の例を示す図である。本実施形態のカーシェアリングシステム１は、管理サーバ１０、車２０、携帯端末３０を含む。車２０には、車載器２００が搭載されている。管理サーバ１０、車２０の車載器２００、携帯端末３０は、それぞれ互いに通信可能である。
【００１５】
管理サーバ１０は、カーシェアリングシステム１において、利用者に使用される車２０の予約管理を行う。管理サーバ１０は、利用者から、携帯端末３０を介して、車２０を利用するための予約を受付ける。
【００１６】
車２０は、カーシェアリングシステム１において、事前に予約をした利用者に使用される。車２０には、管理サーバ１０、携帯端末３０との間で通信可能な車載器２００が搭載されている。車２０は、例えば、乗用車、貨物車、乗合車等を含む。車載器２００は、例えば、ナビゲーション装置である。
【００１７】
携帯端末３０は、カーシェアリングシステム１において、利用者の操作によって、管理サーバ１０に対して、車２０を使用するための予約情報を送信する。携帯端末３０は、例えば、携帯電話、ノート型ＰＣ（Personal Computer）、ＰＤＡ（Personal Digital Assistant）等である。
【００１８】
車２０の車載器２００と携帯端末３０との間の通信は、例えば、近距離無線通信が使用される。近距離無線通信は、Bluetooth（登録商標）、無線ＬＡＮ（Local Area Network）等を含む。携帯端末３０と管理サーバ１０との間、車２０の車載器２００と管理サーバ１０との間の通信は、例えば、ＷｉＭＡＸ（Worldwide Interoperability For Microwave

Access）、ＰＨＳ（Personal Handy-phone System）、携帯電話の無線ネットワーク等が使用される。

【００１９】

図２は、管理サーバの構成例を示す図である。管理サーバ１０は、制御部１１０、通信処理部１２０、格納部１３０を有する。

【００２０】

制御部１１０は、ＣＰＵ（Central Processing Unit）、ＲＯＭ（Read Only Memory）、ＲＡＭ（Random Access Memory）、入出力インタフェースを含む。制御部１１０は、電源がオンになると、ＲＯＭ、格納部１３０に記録されたコンピュータプログラムを実行し、カードメモリインタフェースに挿入されたメモリカードのデータや、ＲＡＭ、格納部１３０に格納されているデータ等を使用して各種機能を実現する。制御部１１０は、予約管理部１１１、使用頻度判定部１１２、車種別機能差抽出部１１３等を実現するコンピュータプログラムを実行する。

【００２１】

予約管理部１１１は、利用者から、車の使用の予約を携帯端末３０を介して、受付ける。

【００２２】

使用頻度判定部１１２は、利用者が予約した車の車種の、当該利用者の使用頻度を判定する。

【００２３】

車種別機能差抽出部１１３は、利用者が予約した車の車種と、利用者の使用頻度が高い車の車種との間で、同一の機能で異なる操作方法を有する機能とその操作方法を抽出する。

【００２４】

通信処理部１２０は、無線通信によるデータの送受信を行う。通信処理部１２０は、車２０及び携帯端末３０との間で通信を行う。通信処理部１２０は、有線通信によりデータの送受信を行ってもよい。

【００２５】

格納部１３０は、制御部１１０が使用する情報を格納する。格納部１３０は、ユーザ情報ＤＢ１３１、予約情報ＤＢ１３２、使用履歴情報ＤＢ１３３、車種別操作方法ＤＢ１３４を含む。

【００２６】

図３は、ユーザ情報ＤＢの例を示す図である。ユーザ情報ＤＢ１３１は、利用者（ユーザ）毎に、ユーザＩＤ、パスワード、マイカーの車種等を格納する。マイカーは、利用者が所有する車であり、利用者が普段使用する車である。即ち、マイカーは、利用者にとって、使用頻度が高い車である。利用者（ユーザ）毎の、ユーザＩＤ、パスワード、マイカーの車種等は、ユーザ情報ＤＢ１３１に、あらかじめ格納されている。

【００２７】

図４は、予約情報ＤＢの例を示す図である。予約情報ＤＢ１３２は、カーシェアリングシステム１で使用される車についての、予約情報を格納する。予約情報には、予約している利用者のユーザＩＤ、利用開始日時、利用終了日時、車種等が含まれる。

【００２８】

図５は、使用履歴情報ＤＢの例を示す図である。使用履歴情報ＤＢ１３３は、利用者毎に、利用者が過去に使用した車の車種、利用した日時等を格納する。使用履歴情報ＤＢ１３３に基づいて、利用者がある車種を利用した回数が算出され得る。使用履歴情報ＤＢ１３３は、利用者毎に、各車種を利用した回数を、格納してもよい。

【００２９】

図６は、車種別操作方法ＤＢの例を示す図である。車種別操作方法ＤＢ１３４は、車の車種毎に、当該車の各機能の操作方法を格納する。図６の例では、「車種α」の「機能１」の操作方法は、「操作方法Ｘ」である。ある「車種」がある「機能」を有していない場

合、当該「車種」の当該「機能」の操作方法として、車種別操作方法ＤＢ１３４には、例えば、「なし」が格納されてもよい。

【００３０】

図７は、車の車載器の構成例を示す図である。車２０の車載器２００は、制御部２１０、通信処理部２２０、格納部２３０、表示部２４０、音声出力部２５０を含む。車載器２００は、車２０に搭載されている。

【００３１】

制御部２１０は、ＣＰＵ（Central Processing Unit）、ＲＯＭ（Read Only Memory）、ＲＡＭ（Random Access Memory）、入出力インタフェースを含む。制御部２１０は、車のアクセサリー電源がオンになると、ＲＯＭや格納部２３０に記録されたコンピュータプログラムを実行し、カードメモリインタフェースに挿入されたメモリカードのデータや、ＲＡＭ、格納部２３０に格納されているデータ等を使用して各種機能を実現する。制御部２１０は、車種情報取得処理部２１１、シーン判定部２１２等を実現するコンピュータプログラムを実行する。

【００３２】

車種情報取得処理部２１１は、自車及び利用者の使用頻度の高い車の車種が有する各機能で互いに異なる操作方法の情報を、管理サーバ１０又は利用者の携帯端末３０から取得する。車種情報取得処理部２１１は、取得した情報を、格納部２２０の操作方法差情報ＤＢ２３１に格納する。

【００３３】

シーン判定部２１２は、車２０の車両情報取得部２７０からの情報に応じて、車２０の状態等を判断する。シーン判定部２１２は、車２０の状態に応じて、適切な機能の操作方法を、表示部２５０、音声出力部２６０を通じて、案内する。

【００３４】

通信処理部２２０は、無線通信によるデータの送受信を行う。通信処理部２２０は、管理サーバ１０及び携帯端末３０との間で通信を行う。通信処理部２２０は、有線通信によりデータの送受信を行ってもよい。例えば、通信処理部２２０は、携帯端末３０と有線接続し、データの送受信を行ってもよい。通信処理部２２０は、例えば、車載用の通信規格であるＤＣＭ（Data Communication Module）又は無線通信規格であるＷｉＭＡＸ（World wide Interoperability for Microwave Access）に基づくモジュールである。

【００３５】

格納部２３０は、制御部２１０などが使用する情報を格納する。格納部２３０は、操作方法差情報ＤＢ２３１、予約情報ＤＢ２３２、地図情報ＤＢ２３３を格納する。

【００３６】

図８は、操作方法差情報ＤＢの例を示す図である。操作方法差情報ＤＢ２３１は、自車及び利用者の使用頻度の高い車の車種が有する各機能で互いに異なる操作方法の情報を格納する。また、操作方法差情報ＤＢ２３１は、自車及び利用者の使用頻度の高い車の車種が有する各機能で互いに異なる操作方法の優先度を格納し得る。優先度の高い操作方法が、機能の操作方法が案内される場合において、優先して案内される。優先度は、機能情報ＤＢ２３４において、あらかじめ決められていてもよい。操作方法差情報ＤＢ２３１は、自車及び利用者の使用頻度の高い車の車種が有する各機能で互いに同一の操作方法の情報を格納してもよい。

【００３７】

予約情報ＤＢ２３２は、携帯端末３０から受信した予約情報を格納する。

【００３８】

地図情報ＤＢ２３３は、車載器２００において道案内をする際に使用される地図情報を格納する。地図情報には、道路、施設等の情報が含まれる。

【００３９】

図９は、機能情報ＤＢ２３４の例を示す図である。機能情報ＤＢ２３４は、車２０の各機能が使用される際の、車の状態等の情報を格納する。車の状態等とは、例えば、「エン

ジンが始動している」、「現在位置がガソリンスタンドであり、停止している」、「シフトレバーがリバースである」などである。１つの機能に対して、複数の状態等の情報が格納されてもよい。機能情報ＤＢ２３４には、車の状態と、この状態のときに使用されるべき車の機能とが対応付けられて格納されている。機能情報ＤＢ２３４は、機能毎の優先度の情報を有していてもよい。

【００４０】

表示部２４０は、制御部２１０等から送信される表示画面データ等に基づいて表示を行う。表示部２４０は、例えば、ＬＣＤ（Liquid Crystal Display）、ＣＲＴ（Cathode Ray Tube）ディスプレイ、有機ＥＬ（Electroluminescence）ディスプレイ等の表示デバイスである。

【００４１】

音声出力部２５０は、制御部２１０等から送信される音声データ等に基づいて音声出力を行う。音声出力部２５０は、例えば、スピーカである。

【００４２】

操作入力部２６０は、利用者からの車載器２００に対する命令を受付ける。操作入力部２６０は、例えば、各種スイッチ、タッチセンサ、音声入力装置などである。

【００４３】

車両情報取得部２７０は、車２０の各部分のセンサ等から車２０の状態等に関する情報を取得する。

【００４４】

図１０は、車両情報取得部２７０の例を示す図である。図１０の例では、車両情報取得部２７０は、ステアリング検出部２７１、ブレーキ検出部２７２、リバース検出部２７３、ＧＰＳ情報受信部２７４、車速検出部２７５、カメラ映像入力部２７６を有する。車両情報取得部２７０は、他の検出部、センサ等を有してもよい。車両情報取得部２７０は、例えば、燃料センサ、水温センサ、雨センサ、路面センサ、視界センサ、気圧センサ、明暗センサを有してもよい。

【００４５】

ステアリング検出部２７１は、ステアリングの回転角に応じて発生するステアリングパルス信号を検出する。ステアリング検出部２７１は、検出結果したステアリングパルス信号を制御部２１０に送信する。ステアリング検出部２７１が検出するステアリングパルス信号は、例えば、ステアリングが所定角度回転する毎に出力される。ステアリング検出部２７１は、ステアリングパルス信号を、端子を介して電気的に検出する。

【００４６】

ブレーキ検出部２７２は、車両のパーキングブレーキがかけられているか否かを検出する。ブレーキ検出部２７２は、検出結果を制御部２１０に通知する。ブレーキ検出部２７２は、例えば、パーキングブレーキレバー（又は、パーキングブレーキペダル）の動きと連動してオンオフするスイッチの通電状態により、パーキングブレーキがかけられているか否かを検出する。ブレーキ検出部２７２は、例えば、スイッチの通電状態を、端子を介して電気的に検出する。

【００４７】

リバース検出部２７３は、車両のシフトレバー（又は、変速レバー）がリバース（後進）であるか否かを検出する。リバース検出部２７３は、検出結果を制御部２１０に通知する。リバース検出部２７３は、例えば、シフトレバーと連動してオンオフするスイッチの通電状態により、シフトレバーがリバースであるか否かを検出する。リバース検出部２７３は、例えば、スイッチの通電状態を、端子を介して電気的に検出する。

【００４８】

ＧＰＳ情報受信部２７４は、端子に接続されるＧＰＳ（Global Positioning System）アンテナが受信したＧＰＳ衛星からの電波の信号を受信し、受信した信号を制御部２１０に送信する。ＧＰＳは、地球を周回する多数のＧＰＳ人工衛星のうち少なくとも３つのＧＰＳ衛星からの電波に基づいて、ＧＰＳアンテナの位置を測定するシステムである。

【００４９】
ここでは、ＧＮＳＳ（Global Navigation Satellite System）として、ＧＰＳを使用した測位システムが適用されるが、ＧＮＳＳとして、ＧＰＳに限定されず、Ｇａｌｉｌｅｏ、ＧＬＯＮＡＳＳ（Global Navigation Satellite System）等の衛星を用いた測位システムが使用されてもよい。ＧＮＳＳは、衛星からの信号を用いて移動体に搭載された測位装置が移動体の位置を測定する測位システムである。
【００５０】
車速検出部２７５は、車軸の回転角に応じて発生する車速パルス信号を検出する。車速検出部２７５は、検出結果した車速パルス信号を制御部２１０に送信する。車速検出部２７５が検出する車速パルス信号は、車速センサ又は車両のエンジンやブレーキを制御する電子制御ユニットから出力されるステップ状のパルス信号である。車速パルス信号は、例えば、車軸が所定角度回転する毎に出力される。車速パルス信号と、車両の移動距離との関係は、車両を製造するメーカや車種、車両に装着される車輪の大きさや空気圧等により変化する。このため、制御部２１０は、ＧＰＳによる測位結果に基づいて算出される車両の移動距離に基づいて、検出される車速パルス信号による車速を適宜校正してもよい。車速検出部２７５は、車速パルス信号を、端子を介して電気的に検出する。
【００５１】
カメラ映像入力部２７６は、車両の後方を撮影するカメラ（スチルカメラ又はビデオカメラ）からの映像信号を受信する。カメラ映像入力部２７６は、受信した映像信号を制御部２１０に送信する。カメラ映像入力部２７６は、リバース検出部２７３が車両のリバースを検出した際、端子に接続されているカメラからの映像信号を制御部２１０に送信する。
【００５２】
エンジン検出部２７７は、エンジンが駆動しているか否かを検出する。エンジン検出部は、検出結果を制御部２１０に通知する。エンジン検出部２７７は、例えば、エンジンの回転と連動してオンオフするスイッチの通電状態によりエンジンが駆動しているか否かを検出する。エンジン検出部２７７は、スイッチの通電状態を、端子を介して電気的に検出する。
【００５３】
図１１は、携帯端末の構成例を示す図である。携帯端末３０は、制御部３１０、通信処理部３２０、格納部３３０を含む。
【００５４】
制御部３１０は、ＣＰＵ（Central Processing Unit）、ＲＯＭ（Read Only Memory）、ＲＡＭ（Random Access Memory）、入出力インタフェースを含む。制御部３１０は、携帯端末３０の電源がオンになること又は利用者からの指示により、ＲＯＭ、格納部３３０等に記録されたコンピュータプログラムを実行し、カードメモリインタフェースに挿入されたメモリカードのデータや、ＲＡＭ、格納部３３０に格納されているデータ等を使用して各種機能を実現する。制御部３１０は、予約処理部３１１、車種情報取得処理部３１２等を実現するコンピュータプログラムを実行する。
【００５５】
予約処理部３１１は、利用者から、車の利用予約を受け付け、管理サーバ１０に対し、利用者の車の利用予約処理を行う。
【００５６】
車種情報取得処理部３１２は、管理サーバ１０から車の機能の操作方法を受信し、車両情報ＤＢ３３２に格納する。
【００５７】
シーン判定部３１３は、端末情報取得部３７０からの情報（位置情報、加速度情報）等、地図情報等に応じて、車２０の状態等を判断する。シーン判定部３１３は、車２０の状態に応じて、適切な機能の操作方法を、表示部３５０、音声出力部３６０を通じて、案内する。

【００５８】
通信処理部３２０は、無線通信によるデータの送受信を行う。通信処理部３２０は、管理サーバ１０及び車２０との間で通信を行う。通信処理部３２０は、有線通信によりデータの送受信を行ってもよい。例えば、通信処理部３２０は、車２０と有線接続し、データの送受信を行ってもよい。
【００５９】
格納部３３０は、制御部３１０が使用する情報を格納する。格納部３３０は、予約情報ＤＢ３３１、車種情報ＤＢ３３２、地図情報ＤＢ３３３を含む。
【００６０】
予約情報ＤＢ３３１は、管理サーバ１０から受信した予約完了通知に含まれる予約情報を、格納する。
【００６１】
車種情報ＤＢ３３２は、利用者が予約した車の車種、利用者の使用頻度が高い車の車種を格納する。車種情報ＤＢ３３２は、車種毎の機能の操作方法を格納し得る。車種毎の機能の操作方法は、例えば、管理サーバ１０から取得される。
【００６２】
地図情報ＤＢ３３３は、道案内をする際などに使用される地図情報を格納する。地図情報には、道路、施設等の情報が含まれる。
【００６３】
表示部３４０は、制御部３１０等から送信される表示画面データ等に基づいて表示を行う。表示部３４０は、例えば、ＬＣＤ（Liquid Crystal Display）、ＣＲＴ（Cathode Ray Tube）ディスプレイ、有機ＥＬ（Electroluminescence）ディスプレイ等の表示デバイスである。
【００６４】
音声出力部３５０は、制御部３１０等から送信される音声データ等に基づいて音声出力を行う。音声出力部３５０は、例えば、スピーカである。
【００６５】
入力部３６０は、利用者からの命令を受付ける。入力部３６０は、例えば、各種スイッチ、タッチセンサ、音声入力装置などである。
【００６６】
端末情報取得部３７０は、携帯端末３０の各部分のセンサ等から携帯端末の状態などに関する情報を取得する。
【００６７】
図１２は、車両情報取得部の例を示す図である。図１２の例では、端末情報取得部３７０は、ＧＰＳ情報受信部３７１、加速度検出部３７２を有する。端末情報取得部３７０は、他の検出部、センサ等を有してもよい。
【００６８】
ＧＰＳ情報受信部３７１は、端子に接続されるＧＰＳ（Global Positioning System）アンテナが受信したＧＰＳ衛星からの電波の信号を受信し、受信した信号を制御部３１０に送信する。ＧＮＳＳとして、ＧＰＳに限定されず、Ｇａｌｉｌｅｏ、ＧＬＯＮＡＳＳ（Global Navigation Satellite System）等の衛星を用いた測位システムが使用されてもよい。
【００６９】
加速度検出部３７２は、携帯端末３０の加速度に応じて発生する加速度パルス信号を検出する。加速度検出部３７２は、検出結果した加速度パルス信号を制御部３１０に送信する。加速度検出部３７２が検出する加速度パルス信号は、加速度センサなどから出力されるパルス信号である。加速度パルス信号から、携帯端末３０の加速度が算出される。加速度が算出されると、携帯端末３０の移動速度、及び、移動距離が算出される。車２０の車内の携帯端末３０の加速度、移動速度、移動距離は、携帯端末３０を車内で激しく動かさなければ、車２０の加速度、移動速度、移動距離と同じとみなせる。制御部３１０は、Ｇ

ＰＳによる測位結果に基づいて算出される携帯端末３０の移動距離に基づいて、検出される加速度パルス信号による加速度とを適宜校正してもよい。加速度検出部３７２は、加速度パルス信号を、端子を介して電気的に検出する。

【００７０】

（動作例）

〈予約時（携帯端末）の動作例〉

図１３は、予約時における携帯端末の動作フローの例を示す図である。図１３は、利用者がカーシェアリングシステム１における車２０を使用する予約をする際の動作フローの例である。携帯端末３０の制御部３１０は、電源スイッチがＯＮにされること、利用者の操作等により、格納部３３０に格納されているコンピュータプログラムを実行する。このコンピュータプログラムが実行されることにより、制御部３１０の各機能部が実現される。図１３の予約処理の動作フローは、ユーザにより予約処理機能が選択されることにより、予約処理部３１１が動作し、開始される。

【００７１】

予約処理部３１１は、利用者に対し、ユーザＩＤ及びパスワードの入力を要求する（Ｓ１０１）。予約処理部３１１は、表示部３４０に、ユーザＩＤ及びパスワードの入力を促すメッセージを表示させる。利用者は、表示部３４０に表示されたメッセージに従って、入力部３６０により、ユーザＩＤ及びパスワードを入力する。

【００７２】

予約処理部３１１は、ユーザＩＤ及びパスワードが入力されると、管理サーバ１０に対し、入力されたユーザＩＤ及びパスワードを、通信処理部３２０を介して、送信する（Ｓ１０２）。管理サーバ１０は、携帯端末３０から送信されたユーザＩＤ及びパスワードに基づいて、ユーザ認証を行う。

【００７３】

予約処理部３１１は、管理サーバ１０から認証結果を受信するまで、待機する（Ｓ１０３）。予約処理部３１１は、管理サーバ１０が送信した認証結果（図１４：Ｓ２０４又はＳ２０６）を通信処理部３２０を介して受信すると（Ｓ１０３；ＹＥＳ）、利用者が認証されたか否かを確認する（Ｓ１０４）。利用者が認証されなかった場合（Ｓ１０４；ＮＯ）、処理が、ステップＳ１０１に戻る。

【００７４】

利用者が認証された場合（Ｓ１０４；ＹＥＳ）、予約処理部３１１は、管理サーバ１０が送信した予約状況情報（図１４：Ｓ２０８）を、通信処理部３２０を介して受信する（Ｓ１０５）。予約状況情報は、カーシェアリングシステム１において、現在、利用の予約ができる車（車種）、利用できる期間、貸出場所、返却場所等の情報を含む。

【００７５】

予約処理部３１１は、利用者から予約条件を受付ける（Ｓ１０６）。予約処理部３１１は、受信した予約状況情報を、表示部３４０に表示させる。また、予約処理部３１１は、表示部３４０に、予約状況情報に基づいて、予約条件の入力を促すメッセージを表示させる。予約条件は、例えば、貸出日時、貸出場所、返却日時、返却場所、使用車種等の情報である。利用者は、表示部３４０に表示されたメッセージに従って、入力部３６０により、予約条件を入力する。

【００７６】

予約処理部３１１は、予約条件が入力されると、管理サーバ１０に対し、入力された予約条件を、通信処理部３２０を介して、送信する（Ｓ１０７）。管理サーバ１０は、携帯端末３０から送信された予約条件に基づいて、予約処理を行い、携帯端末３０に対して、予約完了通知を送信する。

【００７７】

予約処理部３１１は、管理サーバ１０から予約完了通知を受信するまで、待機する（Ｓ１０８）。予約処理部３１１は、管理サーバ１０が送信した予約完了通知（図１６：Ｓ２２３）を、通信処理部３２０を介して受信すると（Ｓ１０８；ＹＥＳ）、管理サーバ１０

から受信した予約完了通知を、予約情報として、格納部３３０の予約情報ＤＢ３３１に格納し、予約処理の動作フローは終了する。予約完了通知（予約情報）は、貸出日時、貸出場所、返却日時、返却場所、使用車種を含む。また、予約完了通知（予約情報）は、利用者の使用頻度が高い車の車種（若しくは利用者が所有する車の車種）と予約した車の車種との間で同一の機能で異なる操作方法の情報を含み得る。

【００７８】

図１３の動作フローにより、利用者は携帯端末３０により車２０の利用予約をできる。携帯端末３０の格納部３３０の予約情報ＤＢ３３１には、利用者の使用頻度が高い車の車種（若しくは利用者が所有する車の車種）と予約した車の車種との間で同一の機能で異なる操作方法の情報が格納され得る。

【００７９】

〈予約時（管理サーバ）の動作例〉

図１４、図１５、及び、図１６は、予約時における管理サーバの動作フローを示す図である。図１４、図１５、及び、図１６は、利用者がカーシェアリングシステム１における車２０を使用する予約をする際の、管理サーバ１０の動作フローの例である。図１４の「Ａ１」は、図１５の「Ａ１」に接続される。図１５の「Ａ２」は、図１６の「Ａ２」に接続される。

【００８０】

管理サーバ１０の制御部１１０は、電源がＯＮにされることなどにより、格納部１３０に格納されているコンピュータプログラムを実行する。このコンピュータプログラムが実行されることにより、制御部１１０の各機能部が実現される。図１４等の動作フローは、携帯端末３０からユーザＩＤ及びパスワードを受信することにより、予約管理部３１１が動作し、処理が開始される。

【００８１】

管理サーバ１０の予約管理部１１１は、携帯端末３０が送信したユーザＩＤ及びパスワード（図１３：Ｓ１０２）を、通信処理部１２０を介して受信する。予約管理部１１１は、受信したユーザＩＤを検索キーとして、格納部１３０のユーザ情報ＤＢ１３１を検索する。

【００８２】

受信したユーザＩＤがユーザ情報ＤＢ１３１に存在しない場合、ユーザＩＤに対応する利用者の登録がない（Ｓ２０２；ＮＯ）として、処理がステップＳ２０３に進む。また、受信したユーザＩＤがユーザ情報ＤＢ１３１に存在するが、受信したパスワードとユーザ情報ＤＢ１３１に格納される当該ユーザＩＤに対応するパスワードとが相違する場合、登録がない場合（Ｓ２０２；ＮＯ）と同様に、処理がステップＳ２０３に進む。ステップＳ２０３では、予約管理部１１１は、受信したユーザＩＤ及びパスワードでは認証できない（認証ＮＧ）と判定する。予約管理部１１１は、携帯端末３０に認証できない旨（認証ＮＧ）の認証結果を送信し（Ｓ２０４）、処理が終了する。

【００８３】

一方、受信したユーザＩＤがユーザ情報ＤＢ１３１に存在し、受信したパスワードとユーザ情報ＤＢ１３１に格納される当該ユーザＩＤに対応するパスワードとが一致する場合、ユーザＩＤに対応する利用者の登録があるとして、処理がステップＳ２０５に進む。ステップＳ２０５では、予約管理部１１１は、受信したユーザＩＤ及びパスワードを認証する（認証ＯＫ）と判定する。予約管理部１１１は、携帯端末３０に認証する旨（認証ＯＫ）の認証結果を送信する（Ｓ２０６）。

【００８４】

予約管理部１１１は、予約情報ＤＢから予約状況情報を抽出する（Ｓ２０７）。予約状況情報は、カーシェアリングシステム１において、現在、利用の予約ができる車（車種）、利用の予約ができる期間、貸出場所、返却場所等の情報を含む。予約管理部１１１は、携帯端末３０に、抽出した予約状況情報を、通信処理部１２０を介して送信する（Ｓ２０８）。

【００８５】
予約管理部１１１は、携帯端末３０から予約条件を受信するまで、待機する（図１５：Ｓ２０９）。予約管理部１１１は、所定時間経過しても、携帯端末３０から予約条件を受信できない場合、処理を終了してもよい。
【００８６】
予約管理部１１１は、携帯端末３０が送信した予約条件（図１３：Ｓ１０７）を、通信処理部１２０を介して受信する（Ｓ２０９；ＹＥＳ）。
【００８７】
次に、使用頻度判定部１１２が、ユーザＩＤに対応する利用者が予約した車（車種）の、利用者の使用頻度を判定する。使用頻度判定部１１２は、ユーザＩＤを検索キーとして、使用履歴情報ＤＢ１３３を検索する（Ｓ２１０）。使用頻度判定部１１２は、ユーザＩＤに対応する利用者の車の使用履歴を取得する。使用頻度判定部１１２は、ユーザＩＤを検索キーとして、ユーザ情報ＤＢ１３１を検索し、ユーザＩＤに対応する利用者のマイカーの車種（及びマイカーの有無）を取得する。
【００８８】
使用頻度判定部１１２は、利用者がマイカーを所有しているか否かを確認する（Ｓ２１１）。利用者がマイカーを所有している場合（Ｓ２１１；ＹＥＳ）、使用頻度判定部１１２は、利用者が予約した車の車種が当該利用者のマイカーの車種と同一であるか否かを確認する（Ｓ２１２）。使用頻度判定部１１２は、利用者が予約した車の車種が当該利用者のマイカーの車種と同一である場合（Ｓ２１２；ＹＥＳ）、処理がステップＳ２１４に進む。
【００８９】
利用者がマイカーを所有している場合（Ｓ２１１；ＹＥＳ）、若しくは、利用者が予約した車の車種が当該利用者のマイカーの車種と同一でない場合（Ｓ２１２；ＮＯ）、使用頻度判定部１１２は、利用者の車の使用履歴に基づいて、利用者が予約した車の車種の、当該利用者の利用回数が所定回数（ｎ回）未満か否かを判定する（Ｓ２１３）。当該利用者の利用回数が所定回数（ｎ回）未満である場合（Ｓ２１３；ＹＥＳ）、処理がステップＳ２１５に進む。当該利用者の利用回数が所定回数（ｎ回）以上である場合（Ｓ２１３；ＮＯ）、処理がステップＳ２１４に進む。使用頻度判定部１１２は、現在から所定期間前までの利用回数が所定回数を超えているか否かを判定基準としてもよい。また、使用頻度判定部１１２は、利用者の車の使用履歴に基づいて、利用者が予約した車の車種の利用が周期的である場合、当該利用者の利用回数が所定回数（ｎ回）以上である場合と同等とみなしてもよい。
【００９０】
ステップＳ２１４では、使用頻度判定部１１２は、利用者が予約した車種は当該利用者の使用頻度が高い車種であると判定する。一方、ステップＳ２１５では、使用頻度判定部１１２は、利用者が予約した車種は当該利用者の使用頻度が低い車種であると判定する。これらの判定結果は、格納部１３０に格納され得る。
【００９１】
車種別機能差抽出部１１３は、利用者が予約した車種が当該利用者の使用頻度が高い車種であるかを確認する（図１６：Ｓ２１６）。利用者が予約した車種が当該利用者の使用頻度が高い車種である場合（Ｓ２１６；ＹＥＳ）、処理がステップＳ２２１に進む。
【００９２】
車種別機能差抽出部１１３は、利用者がマイカーを所有しているか否かを確認する（Ｓ２１７）。利用者がマイカーを所有している場合（Ｓ２１７；ＹＥＳ）、車種別機能差抽出部１１３は、利用者のマイカーの車種の機能とその操作方法、及び、利用者が予約した車の車種の機能とその操作方法とを、車種別操作方法ＤＢ１３４から抽出する。車種別機能差抽出部１１３は、抽出した機能とその操作方法のうち、利用者のマイカーの車種と利用者が予約した車の車種との間で、同一の機能で異なる操作方法を有する機能とその操作方法とを、抽出する（Ｓ２１８）。

【００９３】
利用者がマイカーを所有していない場合（Ｓ２１７；ＮＯ）、車種別機能差抽出部１１３は、利用者の車の使用履歴に基づいて、利用者が使用した車の車種のうち、最も使用頻度の高い車種を抽出し（Ｓ２１９）、処理がステップＳ２２２に進む。
【００９４】
車種別機能差抽出部１１３は、ステップＳ２１９で抽出した車種の機能とその操作方法、及び、利用者が予約した車の車種の機能とその操作方法とを、車種別操作方法ＤＢ１３４から抽出する。車種別機能差抽出部１１３は、抽出した機能とその操作方法のうち、ステップＳ２１９で抽出した車種と利用者が予約した車の車種との間で、同一の機能で異なる操作方法を有する機能とその操作方法とを、抽出し（Ｓ２２０）、処理がステップＳ２２２に進む。
【００９５】
ステップＳ２２１では、予約管理部１１１は、ステップＳ２０９で受信した予約条件を、予約情報として、予約情報ＤＢ１３２に登録する。登録される予約情報は、貸出日時、貸出場所、返却日時、返却場所、使用車種の情報を含む。
【００９６】
ステップＳ２２２では、予約管理部１１１は、ステップＳ２０９で受信した予約条件を、予約情報として、予約情報ＤＢ１３２に登録する。登録される予約情報は、貸出日時、貸出場所、返却日時、返却場所、使用車種の情報、利用者の使用頻度が高い車の車種（若しくは利用者が所有する車の車種）の情報、及び、ステップＳ２１８又はステップ２２０で抽出された情報を含む。予約情報には、ステップＳ２１４又はステップＳ２１５における判定結果（使用頻度が高い車種又は低い車種）が含まれてもよい。
【００９７】
ステップＳ２２１又はステップＳ２２２により、利用者の車の利用予約が確定する。
【００９８】
予約管理部１１１は、ステップＳ２２１又はステップＳ２２２で予約情報ＤＢ１３２に格納した予約情報を含む予約完了通知を、携帯端末３０に送信する（Ｓ２２３）。
【００９９】
図１４、図１５、及び、図１６の動作フローによると、管理サーバ１０は、利用者の車２０の利用予約の登録をできる。管理サーバ１０は、利用者の使用履歴に基づいて、利用者が予約した車２０の車種の使用頻度が高いか否かを判定する。管理サーバ１０は、利用者の使用頻度が高い車の車種と利用予約した車の車種との間で、異なる操作方法を有する機能を抽出する。管理サーバ１０は、抽出した機能及びその操作方法を、携帯端末３０に送信する。
【０１００】
〈運転時（車）の動作例〉
図１７は、運転時における車の動作フローの例を示す図である。図１７は、利用者が予約した車を運転する際の動作フローの例である。図１７の動作フローは、利用者によってアクセサリー電源がオンにされること（ＡＣＣ　ＯＮ）により、開始される。
【０１０１】
車２０のアクセサリー電源がオンにされると、車２０の車載器２００の制御部２１０は、格納部２３０に格納されているコンピュータプログラムを実行する。このコンピュータプログラムが実行されることにより、制御部２１０の各機能部が実現される。
【０１０２】
車載器２００の車種情報取得処理部２１１は、車載器２００と通信できる携帯端末３０を探索する。車種情報取得処理部２１１は、車２０を識別する識別情報を、通信処理部２２０を介して送信し、携帯端末３０からの応答を待機する。車種情報取得処理部２１１が携帯端末３０が送信する応答を所定時間受信しない場合、車載器と通信できる携帯端末３０が存在しないと判断し（Ｓ３０１；ＮＯ）、処理がステップＳ３０２に進む。車種情報取得処理部２１１が携帯端末３０が送信する応答を通信処理部２２０を介して受信した場

合、車載器２００と通信できる携帯端末３０が存在すると判断し（Ｓ３０１；ＹＥＳ）、処理がステップＳ３０４に進む。

【０１０３】

ステップＳ３０２では、車種情報取得処理部２１１は、車載器２００が管理サーバ１０と通信できる通信モジュールを搭載しているか否かを確認する（Ｓ３０２）。車載器２００が管理サーバ１０と通信できる通信モジュールを搭載していない場合（Ｓ３０２；ＮＯ）、処理が終了する。また、車載器２００が管理サーバ１０と通信できる通信モジュールを搭載している場合（Ｓ３０２；ＹＥＳ）、車種情報取得部２１１は、管理サーバ１０に、車２０を識別する識別情報を通信処理部２２０を介して送信する。管理サーバ１０は、車２０から、車２０を識別する情報を取得すると、車２０についての予約情報から、現在時刻に車２０の利用を予約している利用者を抽出する。管理サーバ１０は、車２０の利用を予約している利用者の使用頻度が高い車種と車２０の車種との間で、同一の機能で異なる操作方法を有する機能とその操作方法とを抽出する。管理サーバ１０は、抽出した情報を、車２０に送信する。車種情報取得部２１１は、管理サーバ１０が送信した情報を、通信処理部２２０を介して受信する。車種情報取得部２１１は、管理サーバ１０から受信した情報を、操作方法差情報ＤＢ２３１に格納する（Ｓ３０３）。

【０１０４】

ステップＳ３０４では、車種情報取得処理部２１１は、携帯端末３０の認証を行う（Ｓ３０４）。車種情報取得処理部２１１は、例えば、携帯端末３０との間で、端末特定ＩＤの交換を行うことで、携帯端末３０を認証する。

【０１０５】

車種情報取得処理部２１１は、携帯端末３０を認証すると、携帯端末３０に対し、予約情報を要求する。携帯端末３０は、車種情報取得処理部２１１から予約情報を要求されると、要求された予約情報を、格納部３３０の予約情報ＤＢ３３１から抽出する。携帯端末３０は、抽出した予約情報を、通信処理部３２０を介して送信する。車種情報取得部２１１は、携帯端末３０から予約情報を、通信処理部２２０を介して受信すると、受信した予約情報を、予約情報ＤＢ２３２に格納する（Ｓ３０５）。車種情報取得部２１１は、予約情報から、利用者の使用頻度が高い車の車種（若しくは利用者が所有する車の車種）と予約した車の車種との間で同一の機能で異なる操作方法の情報を抽出し、操作方法差情報ＤＢ２３１に格納する。車種情報取得部２１１は、予約情報に、利用者の使用頻度が高い車の車種（若しくは利用者が所有する車の車種）と予約した車の車種との間で同一の機能で異なる操作方法の情報が含まれない場合、利用者が予約した車（即ち、車２０）の車種は当該利用者の使用頻度が高い車の車種であると判断する。

【０１０６】

シーン判定部２１２は、車２０の車両情報取得部２７０からの情報に応じて、車２０の状態等を判断する。シーン判定部２１２は、車２０の状態等に応じて、この状態等において適切な機能を抽出する。シーン判定部２１２は、この抽出した機能が、操作方法差情報ＤＢ２３１に格納される、車２０と利用者の使用頻度の高い車の車種とで互いに異なる操作方法を有する機能として格納されている場合、当該機能の操作方法を、表示部２４０及び音声出力部２５０に出力して、利用者に案内する（Ｓ３０６）。案内される機能の操作方法は、車２０の機能の操作方法である。案内すべき操作方法が複数ある場合は、優先度が高いものを優先して案内する。案内すべき操作方法の優先度は、車の状態毎、操作方法毎にあらかじめ設定され得る。シーン判定部２１２の動作については、後に詳述する。

【０１０７】

車２０のアクセサリー電源がＯＦＦでない場合（Ｓ３０７；ＮＯ）と、処理がステップＳ３０８に戻る。車２０のアクセサリー電源がＯＦＦにされる（Ｓ３０７；ＹＥＳ）と、処理が終了する。

【０１０８】

ここでは、管理サーバ１０が、車２０の車種と車２０の利用を予約している利用者の使用頻度が高い車種との間で、同一の機能で異なる操作方法を有する機能とその操作方法と

を抽出している。しかし、車載器２００が、車２０の車種と車２０の利用を予約している利用者の使用頻度が高い車種との間で、同一の機能で異なる操作方法を有する機能とその操作方法とを抽出してもよい。このとき、ステップＳ３０３又はステップＳ３０５において、車載器２００の車種情報取得処理部２１１は、管理サーバ１０に接続し、車２０の車種の機能の操作方法のすべての情報と、利用者の使用頻度が高い車種の機能の操作方法のすべての情報を要求する。管理サーバ１０は、車種別操作方法ＤＢ１３４から、車２０の車種の機能の操作方法の情報と、利用者の使用頻度が高い車種の機能の操作方法の情報とを抽出する。管理サーバ１０は、車載器２００に、抽出した情報を送信する。車載器２００の車種情報取得部２１１は、受信した抽出した機能とその操作方法のうち、利用者が予約した車２０の車種と利用者の使用頻度が高い車種の機能との間で、同一の機能で異なる操作方法を有する機能とその操作方法とを、抽出し、操作方法差情報ＤＢ２３１に格納する。この構成では、管理サーバ１０は、操作方法差を抽出しないため、管理サーバ１０の負荷が軽減される。

【０１０９】

また、携帯端末３０が、車２０の車種と車２０の利用を予約している利用者の使用頻度が高い車種との間で、同一の機能で異なる操作方法を有する機能とその操作方法とを抽出してもよい。このとき、車載器２００の車種別情報取得部３１２が管理サーバ１０から機能の操作方法を受信して、操作方法差を抽出するのと同様に、携帯端末３０の車種情報取得処理部３１２が、操作方法差を抽出して、車種情報ＤＢ３２２に格納する。

【０１１０】

さらに、利用者が予約した車の車種の情報、及び、当該利用者の使用頻度が高い車の車種の情報は、利用者が、直接、携帯端末３０の入力部３６０又は車載器２００の操作入力部２６０を介して、入力してもよい。

【０１１１】

図１７の動作フローによると、車２０の車載器２００は、携帯端末３０又は管理サーバ１０から、予約ユーザの使用頻度の高い車種と当該車の車種との操作方法差の情報を取得する。車載器２００は、車両情報取得部２７０からの情報に応じて、車２０の状態等を判断する。車載器２００は、車２０の状態等に応じて、車２０と利用者の使用頻度の高い車の車種とで互いに異なる操作方法を、利用者に案内する。車載器２００によれば、利用者は、使用頻度の低い車を運転する際、使用頻度の高い車の車種と異なる操作方法を案内されることで、操作方法を誤ることなく運転することができる。

【０１１２】

〈車のシーン判定部の動作例〉

図１８は、車のシーン判定部の動作フローの例を示す図である。図１８の動作フローは、図１７のステップＳ３０６を詳細に説明する動作フローである。

【０１１３】

シーン判定部２１２は、車２０の車両情報取得部２７０から、常時、車２０の状態に関する情報を取得する。シーン判定部２１２は、車２０の状態が何らかの機能の操作方法を案内すべき状態であるか否かを判定する（Ｓ４０１）。即ち、シーン判定部２１２は、車２０の状態等に対応する機能が、機能情報ＤＢ２３４にあるか否かを判定する。車２０の状態が何らかの操作方法を案内すべき状態でない場合（Ｓ４０１；ＮＯ）、処理が終了する。即ち、シーン判定部２１２は、車２０の状態等に対応する機能が、機能情報ＤＢ２３４にない場合、処理が終了する。

【０１１４】

車２０の状態が機能の操作方法を案内すべき状態である場合（Ｓ４０１；ＹＥＳ）、即ち、車２０の状態等に対応する機能が機能情報ＤＢ２３４にある場合、シーン判定部２１２は、車２０の状態等に対応する機能を、機能情報ＤＢ２３４から抽出する。シーン判定部２１２は、この抽出した機能の操作方法が操作方法差情報ＤＢ２３１に格納されているかを確認する（Ｓ４０２）。案内すべき機能の操作方法が、車２０と利用者の使用頻度の高い車の車種とで互いに異なる操作方法を有する機能として操作方法差情報ＤＢ２３１に

格納されていない場合（Ｓ４０２；ＮＯ）、処理が終了する。車２０と利用者の使用頻度の高い車の車種とで互いに異なる操作方法を有する機能として操作方法差情報ＤＢ２３１に格納されていない操作方法は、自車と利用者の使用頻度が高い車の車種とで操作方法が変わらないものである。したがって、当該機能の操作方法は、案内されなくてもよい。利用者は、当該機能の操作方法を認識していると考えられるからである。

【０１１５】

案内すべき操作方法が操作方法差情報ＤＢ２３１に格納されている場合（Ｓ４０２；ＹＥＳ）、シーン判定部２１２は、案内すべき操作方法が複数あるか否か確認する（Ｓ４０４）。案内すべき操作方法が複数ある場合（Ｓ４０３；ＹＥＳ）、シーン判定部２１２は、案内すべき優先度が高い操作方法を優先して案内する（Ｓ４０４）。案内すべき操作方法が複数ある場合、一度に案内すると運転者が混乱することがあるので、案内すべき優先度が高い操作方法から案内される。案内すべき操作方法が複数ない場合（Ｓ４０３；ＮＯ）、シーン判定部２１２は、操作方法差情報ＤＢ２３１に格納される案内すべき操作方法を案内する（Ｓ４０５）。操作方法の案内には、表示部２５０、音声出力部２６０が使用され得る。

【０１１６】

図１８の動作フローによると、シーン判定部２１２は、車両情報取得部２７０から車２０の状態等に関する情報を取得する。シーン判定部２１２は、車２０の状態等に応じて適切な機能を抽出し、当該機能が操作方法差として操作方法差情報ＤＢ２３１に格納されている場合、当該機能の操作方法を案内する。シーン判定部２１２は、案内する操作方法が複数ある場合、優先度の高い操作方法を優先して案内する。

【０１１７】

〈シーン判定部の動作の具体例〉

《エンジン始動時》

図１９は、エンジン始動時の車のシーン判定部の動作フローの例を示す図である。図１９の動作フローは、図１７のステップＳ３０６の具体例の１つを説明する動作フローである。

【０１１８】

シーン判定部２１２は、車２０の車両情報取得部２７０から、車２０のエンジンの駆動に関する情報を取得する。車両情報取得部２７０のエンジン検出部２７７は、エンジンが駆動しているか否かを検出し、制御部２１０のシーン判定部２１２に通知する。シーン判定部２１２は、エンジン検出部２７７からの検出結果により、エンジンが始動したか否かを判定する（Ｓ５０１）。エンジンが始動していない場合（Ｓ５０１；ＮＯ）、図１９の処理は終了する。

【０１１９】

エンジンが始動している場合（Ｓ５０１；ＹＥＳ）、シーン判定部２１２は、「エンジンが始動している」という車の状態が、機能情報ＤＢ２３４に格納されているか否かを確認する（Ｓ５０２）。「エンジンが始動している」という車の状態が機能情報ＤＢ２３４に格納されていない場合（Ｓ５０２；ＮＯ）、図１９の処理は終了する。

【０１２０】

「エンジンが始動している」という車の状態が機能情報ＤＢ２３４に格納されている場合（Ｓ５０２；ＹＥＳ）、シーン判定部２１２は、機能情報ＤＢ２３４から「エンジンが始動している」に対応する機能を抽出する。この抽出された機能は、現在の車の状態において、案内すべき機能である。ここでは、例えば、シフトレバー、サイドブレーキ、シート調整機能、ミラー調整機能が抽出されたとする。

【０１２１】

シーン判定部２１２は、抽出した機能が操作方法差情報ＤＢ２３１に格納されているか否かを確認する（Ｓ５０３）。抽出した機能が操作方法差情報ＤＢ２３１に格納されていない場合（Ｓ５０３；ＮＯ）、図１９の処理は終了する。抽出した機能が操作方法差情報ＤＢ２３１に格納されていないことは、車２０と利用者の使用頻度が高い車との間で、抽

出された機能の操作方法の差がないことを意味する。

【０１２２】

抽出した機能が操作方法差情報ＤＢ２３１に格納されている場合（Ｓ５０３；ＹＥＳ）、シーン判定部２１２は、操作方法差情報ＤＢ２３１から、抽出された機能に対応する操作方法を抽出する。ここでは、例えば、シフトレバーの操作方法、サイドブレーキの操作方法、シート調整スイッチの操作方法、ミラー調整スイッチの操作方法が抽出されたとする。操作方法は、レバーやスイッチ等の位置の情報を含みうる。ここで抽出される操作方法は、車２０における操作方法である。ここで抽出された操作方法には、車２０と利用者の使用頻度が高い車との間で、操作方法の差があることを意味する。

【０１２３】

シーン判定部２１２は、抽出された操作方法が、複数あるか否かを判定する（Ｓ５０４）。抽出された操作方法が複数ある場合（Ｓ５０４；ＹＥＳ）、シーン判定部２１２は、優先度が高い操作方法を優先して案内する（Ｓ５０５）。優先度は、操作方法差情報ＤＢ２３１又は機能情報ＤＢ２３４に格納される。優先度が異なる操作方法であっても、同時に、案内できるものは、シーン判定部２１２は、これらの操作方法を、同時に案内してもよい。シーン判定部２１２は、表示部２５０、音声出力部２６０を介して、操作方法を案内する。シーン判定部２１２は、例えば、シフトレバー、サイドブレーキ等の位置を、表示部２５０に図示し、その操作方法を音声で案内する。

【０１２４】

抽出された操作方法が１つである場合（Ｓ５０４；ＮＯ）、シーン判定部２１２は、抽出された操作方法を、表示部２４０、音声出力部２５０を介して、案内する。

【０１２５】

図１９の動作フローによると、シーン判定部２１２は、車両情報取得部２７０からエンジン始動の情報を取得すると、エンジン始動に対応する機能を抽出する。シーン判定部２１２は、抽出した機能が、操作方法差情報ＤＢ２３１に格納されているかを確認する。シーン判定部２１２は、抽出した機能が操作方法差情報ＤＢ２３１に格納されている場合、当該機能の操作方法（シフトレバーの操作方法、サイドブレーキの操作方法、シート調整スイッチの操作方法、ミラー調整スイッチの操作方法など）を案内する。案内すべき操作方法が複数ある場合は、優先度が高い操作方法を優先し案内する。

【０１２６】

《給油時》

ここでは、車２０がガソリンスタンドで、停止した場合について説明する。

【０１２７】

車２０がガソリンスタンドで停止している時、車２０の車両情報取得部２７０の車速検出部２７２は、車速が０であることを検出し、制御部２１０に通知する。また、ＧＰＳ情報受信部２７４は、現在位置を検出し、制御部２１０に通知する。シーン判定部２１２は、地図情報ＤＢ２３３を参照して、ＧＰＳ情報受信部２７４から受信した現在位置がガソリンスタンドであることを認識する。したがって、シーン判定部２１２は、車２０の状態がガソリンスタンドで停止している状態であると判定する。シーン判定部２１２は、機能情報ＤＢ２３４から「ガソリンスタンドで停止している状態」に対応する機能を抽出する。シーン判定部２１２は、抽出した機能が操作方法差情報ＤＢ２３１に格納されているか否かを確認する。格納されている場合、シーン判定部２１２は、当該機能に対応する車２０の操作方法を、表示部２４０、音声出力部２５０を介して案内する。シーン判定部２１２は、例えば、車２０と利用者の使用頻度が高い車との間で異なる、給油口の位置や、給油口の開閉操作方法を案内する。

【０１２８】

また、シーン判定部２１２は、車の現在位置がガソリンスタンド近傍であり、車速が所定値以下であるという状態に対応する機能の操作方法として、給油口の位置を通知するようにしてもよい。このようにすることで、停止する前に給油口の位置を認識することができ、利用者は適切な位置に車を停止させることができる。

【０１２９】
《その他》
シーン判定部２１２は、車両情報取得部２７０からの情報、操作方法差情報ＤＢ２３１、機能情報ＤＢ２３４、地図情報ＤＢ２３３等に基づいて、操作方法を通知できる。
【０１３０】
シーン判定部２１２は、高速道路走行中、凍結路面走行中、駐車中、雨天、右折前、左折前、徐行中、坂道走行中、洗車中、事故遭遇、故障中などの車に関する状態を、車両情報取得部２７０などからの情報に基づいて検出し、適切な機能を抽出する。シーン判定部２１２は、抽出した機能の操作方法が、車２０の車種と利用者の利用頻度が高い車の車種との間で、異なる場合、車２０における当該機能の操作方法を案内する。
【０１３１】
（変形例）
上記の例では、車載器２００で操作方法の案内を行う構成としているが、ここでは、携帯端末３０で操作方法の案内を行う構成を説明する。携帯端末３０は、管理サーバ１０から、利用者が予約した車の車種と当該利用者の使用頻度が高い車（又は当該利用者が所有している車）の車種との操作方法の差の情報を含む予約情報を受信し、予約情報ＤＢ３３１に格納しているとする。
【０１３２】
〈携帯端末が操作方法を案内する例〉
図２０は、携帯端末のシーン判定部の動作フローの例を示す図である。図２０の動作フローは、携帯端末３０の電源がＯＮになること、利用者の操作によりシーン判定処理が選択されることにより、開始される。利用者は、車２０に乗車した際に、携帯端末３０の電源をＯＮにしたり、シーン判定処理を選択することにより、車２０の乗車時にシーン判定処理を実行させることができる。機能情報ＤＢ２３４に格納される情報に相当する情報は、携帯端末３０にあらかじめ格納されているとする。
【０１３３】
携帯端末３０のシーン判定部３１３は、携帯端末３０の端末情報取得部２７０から、常時、携帯端末３０の状態に関する情報（例えば、位置情報、加速度情報など）を取得する。シーン判定部３１３は、携帯端末３０の状態が、何らかの車２０の機能の操作方法を案内すべき状態であるか否かを判定する（Ｓ１１０１）。携帯端末３０の状態が何らかの操作方法を案内すべき状態でない場合（Ｓ１１０１；ＮＯ）、処理が終了する。
【０１３４】
携帯端末３０の状態が車２０の機能の操作方法を案内すべき状態である場合（Ｓ１１０１；ＹＥＳ）、シーン判定部３１３は、携帯端末３０の状態等に応じて、この状態等において適切な車２０の機能を抽出する。シーン判定部３１３は、この抽出した機能の操作方法が予約情報ＤＢ３３１に格納されているかを確認する（Ｓ１１０２）。案内すべき機能の操作方法が、車２０と利用者の使用頻度の高い車の車種とで互いに異なる操作方法を有する機能として予約情報ＤＢ３３１に格納されていない場合（Ｓ１１０２；ＮＯ）、処理が終了する。車２０と利用者の使用頻度の高い車の車種とで互いに異なる操作方法を有する機能として予約情報ＤＢ３３１に格納されていない操作方法は、車２０と利用者の使用頻度が高い車の車種とで操作方法が変わらないものである。したがって、当該機能の操作方法は、案内されなくてもよい。利用者は、当該機能の操作方法を認識していると考えられるからである。
【０１３５】
案内すべき操作方法が予約情報ＤＢ３３１に格納されている場合（Ｓ１１０３；ＹＥＳ）、シーン判定部３１３は、案内すべき操作方法が複数あるか否か確認する（Ｓ１１０４）。案内すべき操作方法が複数ある場合（Ｓ１１０３；ＹＥＳ）、シーン判定部３１３は、案内すべき優先度が高い操作方法を優先して案内する（Ｓ１１０４）。案内すべき操作方法が複数ある場合、一度に案内すると運転者が混乱することがあるので、案内すべき優先度が高い操作方法から案内される。案内すべき操作方法が複数ない場合（Ｓ１１０３；

ＮＯ）、シーン判定部３１３は、予約情報ＤＢ３３１に格納される案内すべき操作方法を案内する（Ｓ１１０５）。操作方法の案内には、表示部３５０、音声出力部３６０が使用され得る。

【０１３６】

図２０の動作フローによると、携帯端末３０のシーン判定部３１３は、端末情報取得部３７０から携帯端末３０の状態等に関する情報を取得する。シーン判定部３１３は、車２０の状態等に応じて適切な機能を抽出し、当該機能が操作方法差として予約情報ＤＢ３３１に格納されている場合、当該機能の操作方法を案内する。シーン判定部３１３は、案内する操作方法が複数ある場合、優先度の高い操作方法を優先して案内する。携帯端末３０は、携帯端末３０の状態によって、使用頻度の高い車の車種と機能の操作方法が異なる車２０の機能の操作方法を案内することができる。また、携帯端末３０は、車２０の車載器２００と通信することなく、車２０の機能の操作方法を案内することができる。

【０１３７】

（実施形態の作用効果）

本実施形態の車載器２００又は携帯端末３０は、使用頻度が低い車を運転する際、使用頻度が高い車と異なる機能について、操作方法を通知する。よって、本実施形態によれば、運転者は、使用頻度の低い車の操作に慣れるまでの時間を短縮することができ、使用頻度の低い車を便利に使いこなせるようになる。また、運転者は、使用頻度の高い車と使用頻度の低い車との間での異なる機能を容易に認識できるため、使用頻度の低い車を運転しているときの安心感が増す。

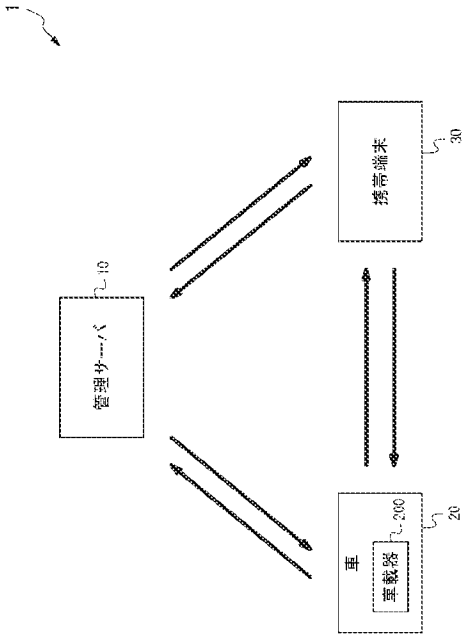
【符号の説明】

【０１３８】

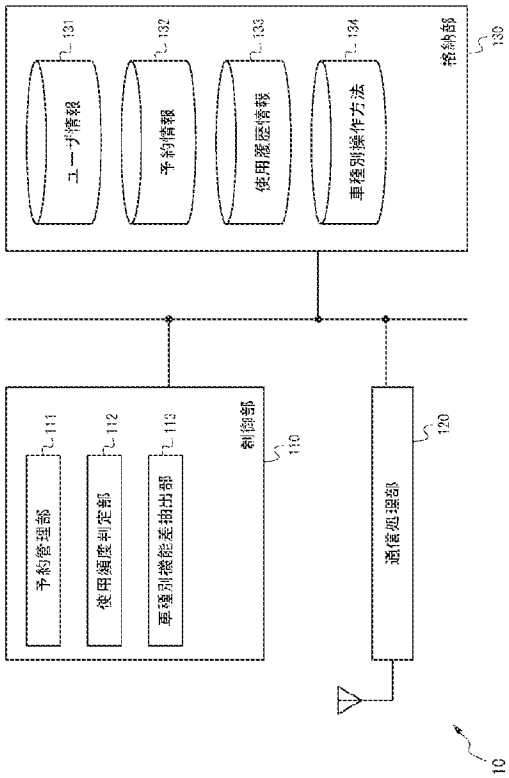
１　カーシェアリングシステム
１０　管理サーバ
１１０　制御部
１１１　予約管理部
１１２　使用頻度判定部
１１３　車種別機能差抽出部
１２０　通信処理部
１３０　格納部
１３１　ユーザ情報ＤＢ
１３２　予約情報ＤＢ
１３３　使用履歴ＤＢ
１３４　車種別操作方法ＤＢ
２０　車
２１０　制御部
２１１　車種情報取得処理部
２１２　シーン判定部
２２０　通信処理部
２３０　格納部
２３１　操作方法差情報ＤＢ
２３２　予約情報ＤＢ
２３３　地図情報ＤＢ
２３４　機能情報ＤＢ
２４０　表示部
２５０　音声出力部
２６０　操作入力部
２７０　車両情報取得部
２７１　ステアリング検出部
２７２　ブレーキ検出部

２７３　リバース検出部
２７４　ＧＰＳ情報受信部
２７５　車速検出部
２７６　カメラ映像入力部
２７７　エンジン検出部
３０　携帯端末
３１０　制御部
３１１　予約処理部
３１２　車種情報取得処理部
３１３　シーン判定部
３２０　通信処理部
３３０　格納部
３３１　予約情報ＤＢ
３３２　車種情報ＤＢ
３３３　地図情報ＤＢ
３４０　表示部
３５０　音声出力部
３６０　入力部
３７０　端末情報取得部
３７１　ＧＰＳ情報受信部
３７２　加速度検出部

【図１】



【図２】



【図３】

ユーザ情報

利用者	ＩＤ	パスワード	マイカーの車種
ＡＡＡ	abcde	012a	α
ＢＢＢ	fghij	345a	α
ＣＣＣ	klmnop	678cde	β
ＤＤＤ	qrstuv	9012zz	なし
・・・	・・・	・・・	・・・

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【図４】

車両Ａ（車種α）の予約情報

貸出日時	貸出場所	返却日時	返却場所	利用者
2010.8.1 12:00	Ａ営業所	2010.8.1 18:00	Ｂ営業所	ＡＡＡ
2010.8.2 10:00	Ｂ営業所	2010.8.3 15:00	Ｃ営業所	ＢＢＢ
2010.8.3 18:00	Ｃ営業所	2010.8.4 12:00	Ａ営業所	ＣＣＣ
2010.8.4 15:00	Ａ営業所	2010.8.4 21:00	Ａ営業所	ＤＤＤ
・・・	・・・	・・・	・・・	・・・

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【図５】

利用者ＡＡＡの使用履歴情報

車種	開始日時	終了日時
γ	2010.4.1 12:00	2010.4.1 18:00
β	2010.5.5 10:00	2010.5.5 15:00
β	2010.6.3 18:00	2010.6.4 12:00
γ	2010.7.8 15:00	2010.7.8 21:00
・・・	・・・	・・・

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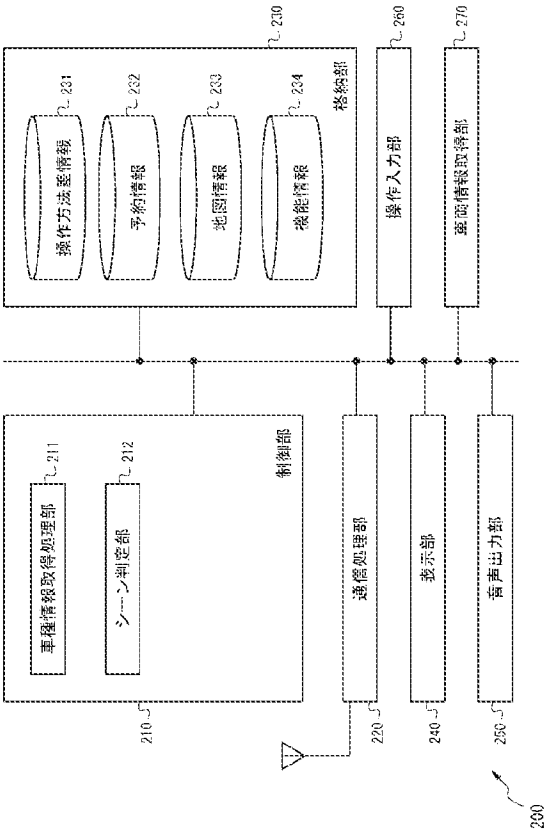
【図６】

車種別操作方法

	車種α	車種β	車種γ	・・・
機能１	操作方法Ｘ	操作方法Ｘ	操作方法Ｙ	・・・
機能２	操作方法Ｐ	操作方法Ｑ	操作方法Ｒ	・・・
機能３	操作方法Ｓ	操作方法Ｔ	操作方法Ｔ	・・・
・・・	・・・	・・・	・・・	・・・

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【図７】



【図８】

	当車	車種β
機能２	操作方法Ｐ	操作方法Ｑ
機能３	操作方法Ｓ	操作方法Ｔ
機能５	操作方法Ａ	操作方法Ｂ
機能８	操作方法Ｊ	操作方法Ｋ
・・・	・・・	・・・

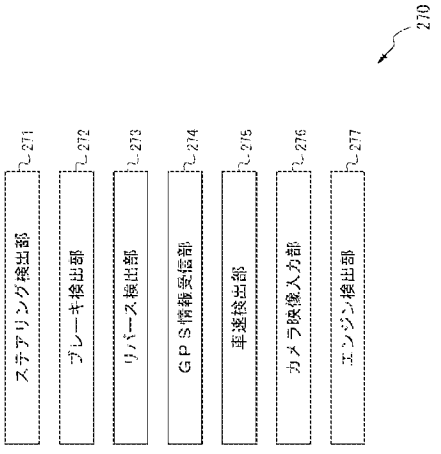
231

【図９】

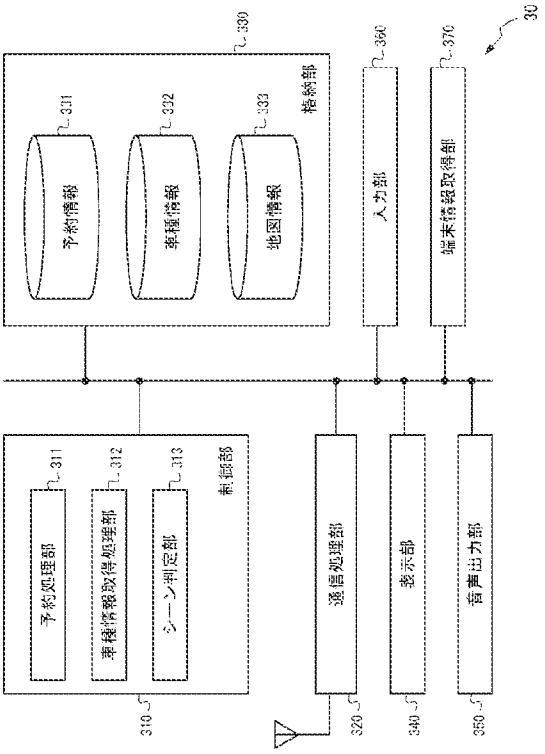
	操作方法	状態
機能１	操作方法Ｘ	状態Ａ
機能２	操作方法Ｐ	状態Ｂ
機能３	操作方法Ｓ	状態Ｃ
・・・	・・・	・・・

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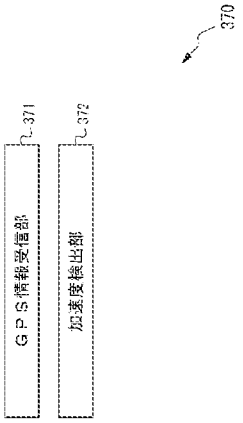
【図１０】



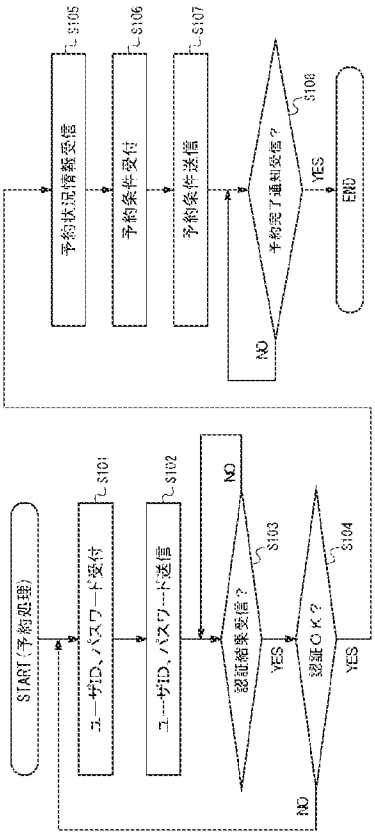
【図１１】



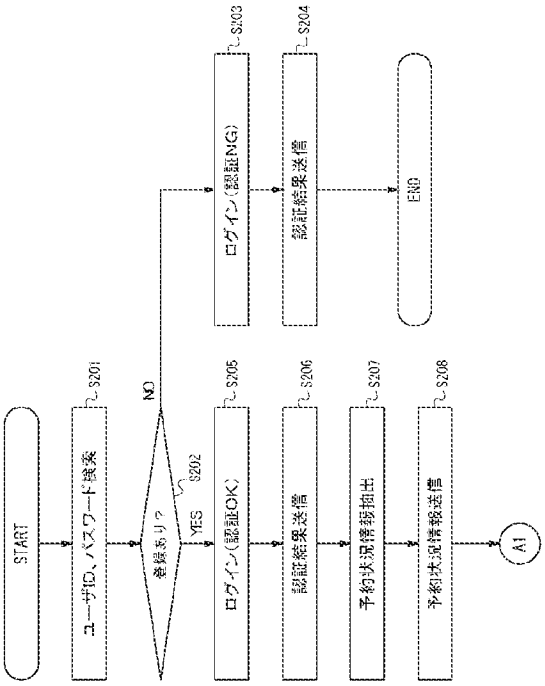
【図１２】



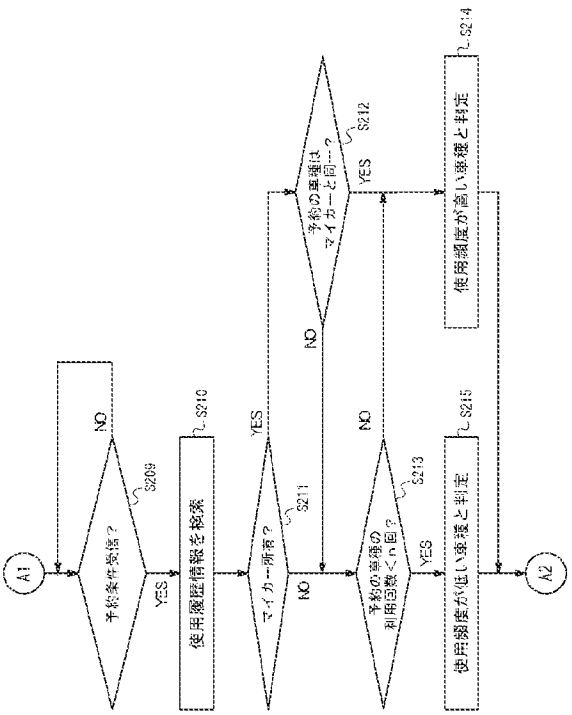
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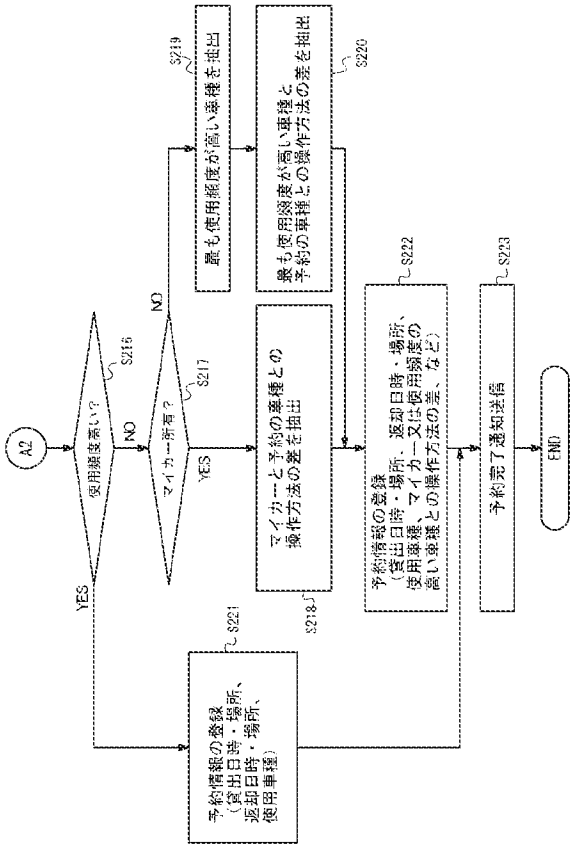
【図１４】



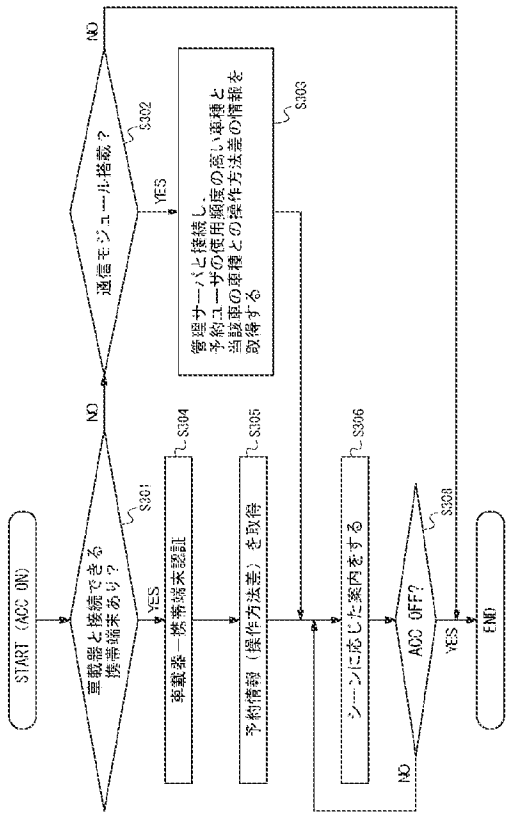
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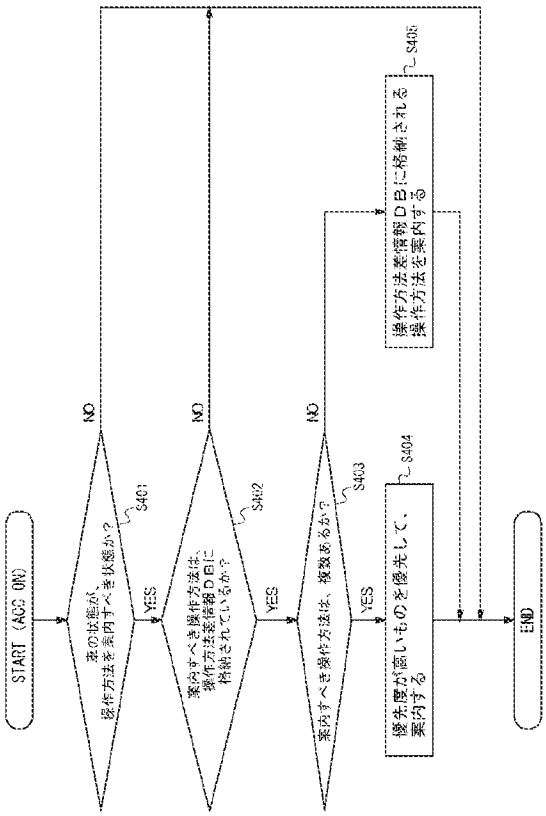
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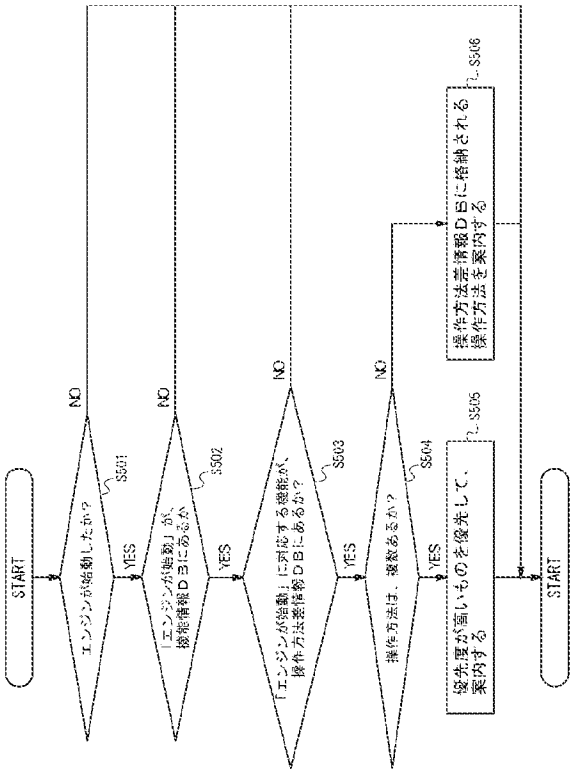
【図１７】



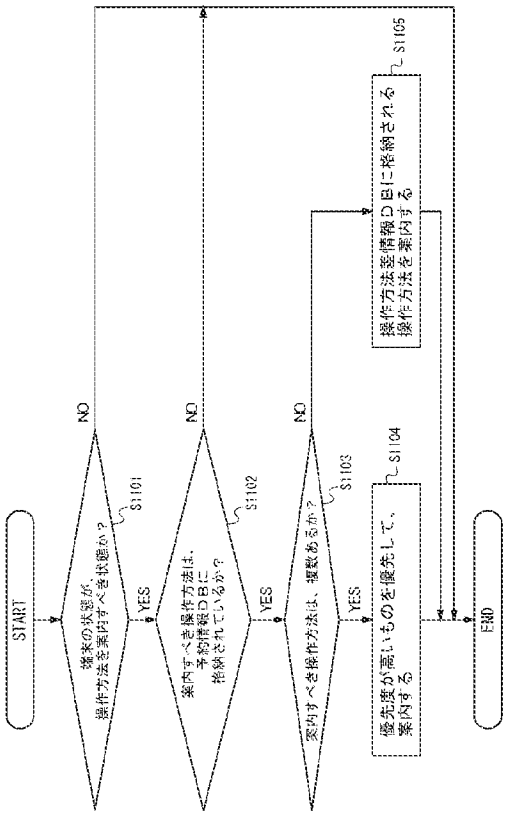
【図１８】



【図１９】


START
エンジンが始動したか？
S501
NO
YES
「エンジンが始動」が、
履歴情報ＤＢにあるか
S502
NO
YES
「エンジンが始動」に対応する操作が、
操作方法差情報ＤＢにあるか？
S503
NO
YES
操作方法は、複数あるか？
S504
NO
YES
優先度が高いものを優先して、
案内する
S505
操作方法差情報ＤＢに格納される
操作方法を案内する
S506
START

【図２０】


START
現実の状態が、
操作方法を案内すべき状態か？
S1101
NO
YES
案内すべき操作方法は、
予約情報ＤＢに
格納されているか？
S1102
NO
YES
案内すべき操作方法は、複数あるか？
S1103
NO
YES
優先度が高いものを優先して、
案内する
S1104
操作方法差情報ＤＢに格納される
操作方法を案内する
S1105
END

フロントページの続き

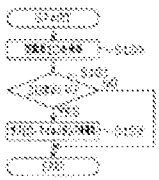
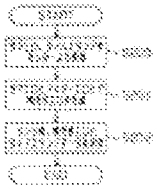
(74)代理人 100085006
弁理士 世良 和信
(72)発明者 林 国勝
兵庫県神戸市兵庫区御所通１丁目２番２８号 富士通テン株式会社内
(72)発明者 野守 寛典
兵庫県神戸市兵庫区御所通１丁目２番２８号 富士通テン株式会社内
(72)発明者 野田 智生
兵庫県神戸市兵庫区御所通１丁目２番２８号 富士通テン株式会社内
(72)発明者 林 新一
兵庫県神戸市兵庫区御所通１丁目２番２８号 富士通テン株式会社内
(72)発明者 竹内 彰次郎
愛知県豊田市トヨタ町１番地 トヨタ自動車株式会社内
(72)発明者 吉津 沙耶香
愛知県豊田市トヨタ町１番地 トヨタ自動車株式会社内
(72)発明者 関山 博昭
愛知県豊田市トヨタ町１番地 トヨタ自動車株式会社内
Ｆターム(参考) 5H181 AA20 BB05 FF05 FF25 FF27 FF33

Identification code distribution system, identification code distribution method, and identification code distribution program

Abstract

<P>PROBLEM TO BE SOLVED: To provide an identification code distribution system, an identification code distribution method, and an identification code distribution program for eliminating trouble of borrowing a key. <P>SOLUTION: A server 3 captures a registration ID from a mobile phone 7 via a public line network 6, and when a personal authentication result is correct, the server allows the mobile phone 7 to download a setup program, a sub ID, and time stamp data. When the mobile phone 7 downloads the sub ID, the sub ID acts like a key. When the link between the mobile phone 7 and a vehicle 4 is established and a collation result of the sub ID of the mobile phone 7 indicates coincidence, the mobile phone 7 performs various functional operations of the vehicle 4. <P>COPYRIGHT: (C)2004,JPO

Images (4)


JP2004088339A
Japan

Other languages
Japanese

Inventor
Fumio Umeda
梅田 文雄
Current Assignee
Tokai Rika Co Ltd

Worldwide applications
2002 JP

Application JP2002245435A events
2002-08-26
Application filed by Tokai Rika Co Ltd
2002-08-26
Priority to JP2002245435A
2004-03-18
Publication of JP2004088339A
Status
Pending

Info

- Cited by (19)
- Legal events
- Similar documents
- Priority and Related Applications

External links

- Espacenet
- Global Dossier
- Discuss

Description

translated from Japanese

[0001]
TECHNICAL FIELD OF THE INVENTION
The present invention relates to an identification code distribution system, an identification code distribution method, and an identification code distribution program.
[0002]
[Prior art]
In recent years, systems for performing various operations of a vehicle without mechanical key operation have been developed for the purpose of improving operability of the vehicle. One of the systems is a smart key system. With the smart key system, the door lock is unlocked when the user (driver) carries the portable device (smart key) and approaches the door, and the key lock entry function that locks when the user moves away, and without inserting the key into the cylinder This is a system having an ignition function and the like in which an engine is started by turning an ignition switch.
[0003]
More specifically, when a user with a portable device approaches, the portable device responds to a request signal output from the vehicle and transmits an ID code. Then, an ECU (for example, a smart ECU) mounted on the vehicle checks the ID code, and unlocks the door lock if the ID code is correct. At this time, the engine is in a state where the engine start is permitted, and the engine can be started just by turning the ignition knob without using a key. On the other hand, when the ECU stops receiving the ID code, it recognizes that the user has left the vehicle and locks the door.
[0004]
[Problems to be solved by the invention]
By the way, even if the operability of the vehicle is improved by this kind of smart key system, when renting a vehicle, it is necessary to go to the owner to borrow these keys, which is troublesome when renting a vehicle. Was. In particular, when the owner of the vehicle that owns the key is away from the vehicle, it is necessary to go to the remote place to borrow the key, not be able to rent the vehicle, or to get the key far away There are inconveniences, such as
[0005]
The present invention has been made in view of the above problems, and has as its object to provide an identification code distribution system, an identification code distribution method, and an identification code distribution program that can eliminate the hassle of borrowing a key. Is to do.
[0006]
[Means for Solving the Problems]
In order to solve the above-mentioned problem, in the invention according to claim 1, it is possible to perform short-range communication with a short-range communication unit of a portable terminal, and when a link of the short-range communication with the portable terminal is established, If the collation of the identification code received from the portable terminal matches, the control means for executing or permitting the operation of the predetermined driving device to be permitted when the collation matches,

and the portable terminal connected via the public line network, The gist is that a management server is provided which causes the portable terminal to download an identification code according to the registered identification information when the received registration identification information matches.
[0007]
According to the present invention, the registration identification information is transmitted from the portable terminal to the public line network. Then, the management server inputs the registration identification information, and if the registration identification information matches, causes the portable terminal to download an identification code corresponding to the registration identification information. When the link of the short-range communication is established using the portable terminal to which the identification code has been downloaded, if the identification codes match, the operation of the predetermined drive device to be permitted is executed or permitted by the control means. Therefore, since the portable terminal is substituted for the key, there is no need for another person to go to the key to operate the driving device.
[0008]
In the invention described in claim 2, in the invention described in claim 1, the management server causes the portable terminal to download an identification code for restricting the operation of the driving device, and the control unit controls the identification code with the restriction. The gist of the present invention is to limit the operation of the driving device based on the following.
[0009]
According to this invention, in addition to the operation of the invention described in claim 1, the identification code for restricting the operation of the drive device is downloaded to the portable terminal, so that the drive device is not operated freely by another person to whom the download is performed. Only
[0010]
In the invention described in claim 3, in the invention described in claim 2, the identification code includes restriction information for restricting an operation of the driving device, and the control unit performs the driving based on the restriction information. The gist is to limit the operation of the device.
[0011]
According to this invention, in addition to the effect of the invention described in claim 2, since the determination as to whether the identification code is restricted is made based on the restriction information included in the identification code, when the identification code itself is used as the restricted code. A simpler system is required.
[0012]
According to a fourth aspect of the present invention, in the third aspect of the present invention, the restriction information is time information for setting a period during which the driving device can operate, and the control unit performs the control based on the time information. The gist is to limit the operation time of the driving device.
[0013]
According to this invention, in addition to the effect of the invention described in claim 3, since the restriction information is time information, an expiration date is set as the restriction of the identification code. Therefore, even if the identification code is registered in the portable terminal of another person, the operation of the driving device can be executed or permitted for another person only for a predetermined period.
[0014]
According to a fifth aspect of the present invention, in the first aspect of the present invention, the control means and the driving device are mounted on a vehicle, and the control means includes an identification registered in the portable terminal. The gist of the present invention is to receive a code by short-range communication, and to execute the operation of the driving device to be permitted when the identification code matches if the identification code matches.
[0015]
According to this invention, in addition to the operation of the invention according to any one of claims 1 to 4, the control target of the control means is a driving device mounted on the vehicle, so that the portable terminal which has downloaded the identification code is provided. Thus, various functions of

the vehicle can be operated.
[0016]
In the invention according to claim 6, in the invention according to any one of claims 1 to 5, the driving device is a locking and unlocking device that locks and unlocks a door, and the control unit is configured to control the mobile terminal. The gist is that the registered identification code is received by short-range communication, and if the collation of the identification code matches, the locking / unlocking device is operated to unlock / unlock the door.
[0017]
According to this invention, in addition to the operation of the invention described in any one of claims 1 to 5, the identification code is downloaded because the control target of the control means is the locking and unlocking device for locking and unlocking the door. The door can be locked or unlocked by the portable terminal.
[0018]
In the invention according to claim 7, the management server causes the portable terminal to download the identification code based on the registered identification information acquired from the portable terminal via the public line network, When the link of the area communication is established, the portable terminal transmits the identification code to the control means of the link destination via the narrow area communication means, and if the verification of the received identification code matches, the control means The gist of the present invention is to execute or permit the operation of a predetermined drive device that should be permitted when the collation matches.
[0019]
According to this invention, the same operation as the first aspect is obtained.
According to the invention described in claim 8, narrow-area communication is possible with the short-range communication means of the mobile terminal, and collation of the identification code received from the mobile terminal when the link of the narrow-area communication with the mobile terminal is established. Are matched, the identification code distribution program used in the identification code distribution system provided with control means for executing or permitting the operation of a predetermined driving device to be permitted when the collation is matched, Capturing the registration identification information via a network, determining whether the registration identification information is correct, and transmitting the identification code to the portable terminal via the public network when the registration identification information is correct. And a download step.
[0020]
According to this invention, the same operation as the first aspect is obtained.
[0021]
BEST MODE FOR CARRYING OUT THE INVENTION
An embodiment of an identification code distribution system embodying the present invention will be described below with reference to FIGS.
[0022]
FIG. 1 is a schematic configuration diagram of the identification code distribution system 1. The identification code distribution system 1 includes a management server (hereinafter simply referred to as a server) 3 installed in a management center (management company) 2 and a controller 5 mounted on a vehicle 4 as control means. The server 3 can communicate with the outside via a public telephone line 6 as a public line network, and here exchanges various data with a mobile phone 7 as a mobile terminal. Further, the controller 5 can communicate with the mobile phone 7 via Bluetooth (R).
[0023]
The server 3 stores control software, ID codes (identification codes) of sub IDs, and time stamp data. The control software is a program for setting up a program for the ID key system in the mobile phone 7 and a program for controlling the vehicle (door lock control, engine control, etc.) by the mobile phone 7. The sub ID is an ID with use restriction registered in the mobile phone 7. The time stamp is the date and time when the sub ID was downloaded to the mobile phone 7. Then, in response to a request from the mobile phone 7, the server 3 causes the mobile phone 7 to download control software, a sub ID, a time stamp, and the like via the public telephone line 6.
[0024]

The vehicle 4 includes an ID key system 8. The ID key system 8 is a system that allows the mobile phone 7 to perform a predetermined operation of the vehicle 4. In the ID key system 8, for example, the door is locked or unlocked or the engine is started by the mobile phone 7. The mobile phone 7 is a wireless telephone using the public telephone line 6. The mobile phone 7 of this example is a mobile phone owned by a person who is not the owner of the vehicle 4, and the owner of the mobile phone 7 is a person who has been permitted to lend the vehicle from the owner of the vehicle 4.
[0025]
The mobile phone 7 includes a microcomputer 9, a transmission / reception circuit 10, a display screen 11, and operation buttons 12, which are mutually connected via a bus 13. The microcomputer 9 performs processing for making the mobile phone 7 function as a telephone, and executes various operations based on, for example, display control of the display screen 11 and input of the operation buttons 12. The transmission / reception circuit 10 modulates a transmission signal transmitted from the antenna 14 and demodulates a reception signal of a radio wave received from the outside via the antenna 14.
The microcomputer 9 has a built-in memory 15.
[0026]
When the owner of the vehicle 4 permits the rental of the vehicle, the owner transmits his / her master ID and a password required for connecting to the server to the mobile phone 7 in, for example, a mail format using his / her mobile phone or personal computer. Here, the transmission format of the master ID and the password is not limited to e-mail, but may be any format as long as the information can be communicated, such as verbal notification using a telephone or the like.
[0027]
Then, the master ID and the password are input to the mobile phone 7 as registration IDs (registration identification information), and the mobile phone 7 is connected to the server 3. Then, the server 3 performs personal authentication based on the registration ID, and if the authentication result is correct, sends the control software, the sub ID, and the time stamp data (restriction information (time information)) to the mobile phone 7 via the public telephone line 6. I do. The mobile phone 7 performs setup based on the ID key system program, and downloads the sub ID and time stamp data to the memory 15 after the setup. When the mobile phone 7 receives the sub ID, the microcomputer 9 generates an encrypted ID by combining the master ID and the sub ID.
[0028]
When the mobile phone 7 is set up, various operation functions are assigned to the operation buttons 12 of the mobile phone 7. As this assignment, for example, "1" of the operation button 12 is set as a button for locking or unlocking the door, and "2" is set as a button for engine start. When the operation buttons 12 are operated in this state, a function command corresponding to the function of each button is transmitted from the mobile phone 7 to the outside via Bluetooth.
[0029]
The mobile phone 7 includes a first communication circuit 16 as a short-range communication unit including a Bluetooth chip. The first communication circuit 16 exchanges a wireless signal with the vehicle 4 by the short-range communication. The first communication circuit 16 has a built-in wireless circuit 17 and an antenna 18 which are modularized. The wireless circuit 17 converts a wireless signal received from the outside via the antenna 18 so that the microcomputer 9 can read the signal, and transmits a wireless signal to the outside via the antenna 18 in response to a command from the microcomputer 9.
[0030]
The controller 5 of the vehicle 4 includes a microcomputer 19 and a second communication circuit 20. The microcomputer 19 has a built-in memory 21, and the memory 21 stores ID codes of a master ID and a sub ID. The second communication circuit 20 forms a pair with the first communication circuit 16 of the mobile phone 7 and can communicate with the first communication circuit 16 of the mobile phone 7. The second communication circuit 20 has a circuit configuration substantially the same as that of the first communication circuit 16, is formed of a one-chip IC, and has a built-in modularized radio circuit 22 and antenna 23.
[0031]
The microcomputer 19 drives the second communication circuit 20 to cause the antenna 23 to

intermittently transmit a response request signal. When the operation button 12 is pressed while the mobile phone 7 receives the response request signal (the state where the link is established), the microcomputer 9 operates the function command, the encryption ID, and the time stamp corresponding to the operated operation button 12. Is transmitted from the first communication circuit 16 to the vehicle 4. The second communication circuit 20 receives the response signal via the antenna 23, and the microcomputer 19 compares the ID code from the mobile phone 7 with the ID code in the memory 21 to execute code collation.

[0032]

When the code matches, the microcomputer 19 executes various functions according to the function command transmitted from the mobile phone 7. For example, when "1" of the operation buttons 12 is pressed in a state where the door lock is locked, the microcomputer 19 drives the door lock driving device 24 as a driving device (locking device) to unlock the door lock. . On the other hand, if "1" of the operation button 12 is pressed in a state where the door lock is unlocked, the door lock is locked. When the driver presses "2" of the operation button 12 while sitting in the driver's seat, the microcomputer 19 drives the engine starting device 25 as a driving device to execute fuel injection and engine ignition to start the engine. Start.

[0033]

When the microcomputer 19 inputs the encryption ID, the microcomputer 19 calculates a period (use period) from the date of the data to the present based on the time stamp data, and determines whether the use period of the sub ID is within the validity period. Judge. If the use period after downloading the sub-ID to the mobile phone 7 is within the preset expiration date and the master ID and the ID match of the sub-ID match, the microcomputer 19 follows the function command received from the mobile phone 7. Perform various operations.

[0034]

On the other hand, when the use period of the sub ID exceeds the preset expiration date, the microcomputer 19 does not accept the sub ID. For this reason, when the usage period of the sub ID exceeds the expiration date, the mobile phone 7 cannot perform vehicle operations such as door lock (unlock) and engine start.

[0035]

Next, the expiration date processing executed after the distribution of the sub ID will be described with reference to the flowcharts shown in FIGS. First, the server 3 executes the flow shown in FIG. 2 as the expiration date processing.

[0036]

In S100, a registration ID (master ID and password) is received from the mobile phone 7 via the public telephone line 6.

In S101, it is determined whether the registration ID is correct. If the registration ID is correct, the flow shifts to S103, and if not correct, the flow ends.

[0037]

In S102, the ID code of the sub ID and the time stamp data are transmitted to the outside.

Subsequently, at the time of wireless communication between the server 3 and the mobile phone 7, the microcomputer 9 of the mobile phone 7 executes the flow shown in FIG.

[0038]

In step (hereinafter simply referred to as S) 200, the ID code of the sub-ID and the time stamp data are received. That is, the registration ID is transmitted from the mobile phone 7 to the server 3, and if the personal authentication is correct, the mobile phone 7 sets up the system and fetches the sub ID and the time stamp.

[0039]

In S201, an encrypted ID is generated from the sub ID and the master ID.

In S202, when the owner of the mobile phone 7 enters a predetermined area of the vehicle 4 and executes the short-range communication between the mobile phone 7 and the vehicle 4, the encrypted ID and the time stamp data are transmitted. Therefore, the encrypted ID and the time stamp data are transmitted to the vehicle 4 via Bluetooth.

[0040]

Then, at the time of short-range communication between the mobile phone 7 and the vehicle 4, the microcomputer 19 of the vehicle 4 executes the flow shown in FIG.
In S300, the encrypted ID and the time stamp are received from the mobile phone 7. That is, the ID code and the time stamp data of the encrypted ID transmitted from the mobile phone 7 are received via the second communication circuit 20, and the encrypted ID and the time stamp are fetched.
[0041]
In S301, the encrypted ID is decrypted. That is, the encrypted ID is read according to the encryption rule, and the master ID and the sub ID are determined.
In S302, the time stamp of the time stamp is determined. That is, the elapsed time (number of days) from the date of the time stamp to the present is calculated, and the usage period of the sub ID is calculated.
[0042]
In S303, it is determined whether the usage period of the sub ID is within the validity period. Here, if the usage period is within the expiration date, the process proceeds to S304, and if it exceeds the expiration date, the process proceeds to S305.
[0043]
In S304, according to the function command received from the mobile phone 7, the processing of the command is executed. Thereby, the door lock driving device 24 of the vehicle 4 is locked or unlocked, or the engine starting device 25 is operated to start the engine.
[0044]
In S305, the sub ID transmitted from the mobile phone 7 is discarded. That is, if the sub-ID taken from the mobile phone 7 has exceeded the expiration date, the sub-ID is discarded, and the mobile phone 7 cannot execute various functions of the vehicle 4.
[0045]
In this example, when renting the vehicle 4 to another person, the owner of the vehicle 4 gives the registration ID to another person, and accesses the management center 2 with another person's mobile phone 7. Then, if the registration ID is correct, the identification code is downloaded to the mobile phone 7, and the mobile phone 7 can be used as a vehicle key. Therefore, even if the vehicle 4 is lent, even if the sub-ID is downloaded to the mobile phone 7, the mobile phone 7 can be used as a substitute for the vehicle key. There is no need to come.
[0046]
By the way, when the mobile phone 7 whose sub-ID has been downloaded to the mobile phone 7 is used as a vehicle key, if the sub-ID can be used indefinitely, the sub-ID may be misused and lead to vehicle theft. In addition, since the mobile phone 7 is dropped or replaced frequently, it is conceivable that the sub ID is stolen and the vehicle is stolen.
[0047]
However, when the usage period of the sub-ID of the mobile phone 7 exceeds the expiration date, the sub-ID becomes invalid and the vehicle 4 cannot operate. Therefore, even if the sub-ID is registered by another person, the vehicle 4 is not operated by the mobile phone 7 after the expiration date, and the incidence of vehicle theft can be reduced. If the expiration date of the sub-ID has passed, the mobile phone 7 is connected to the management center 2 again, the sub-ID is newly registered in the mobile phone 7, and the mobile phone 7 is used as a vehicle key. .
[0048]
Therefore, the following effects can be obtained in the first embodiment.
(1) When renting the vehicle 4 to another person, the renter is informed of the registration ID, and the borrower inputs the registration ID to the mobile phone 7 and accesses the server 3. Then, by downloading the sub-ID to the mobile phone 7, the mobile phone 7 can be used as a substitute for the vehicle key, so that it is not necessary to go out to borrow the vehicle key when renting the vehicle 4. In particular, if the owner of the key is away from the vehicle 4, it is necessary to go there to rent the vehicle 4, but here, the sub-ID is downloaded to the mobile phone 7 and used as a substitute for the key. There is no hassle to get the key.
[0049]
(2) An expiration date is set for the sub-ID downloaded to the mobile phone 7. Therefore, even if a sub-ID is registered in another person's mobile phone 7, if the expiration date is exceeded, the sub-ID becomes

invalid, so that the probability that the sub-ID is misused and the vehicle 4 is stolen can be reduced.
[0050]
(3) For example, the ID code of the sub-ID itself can be used as the ID for limitation, but in this case, the microcomputer 19 on the vehicle 4 side performs a load-intensive process. However, based on the time stamp sent from the server 3, the microcomputer 19 determines whether or not the usage period of the sub-ID is an expiration date, so that only a relatively simple program needs to be used.
[0051]
The embodiment is not limited to the above, and may be changed as follows, for example.
Various operations of the vehicle 4 such as door lock / unlock and engine start are not limited to being operated by pressing the operation button 12 of the mobile phone 7; for example, a smart key system may be employed. That is, when a user (driver) carrying the mobile phone 7 approaches the vehicle 4, the door lock is automatically unlocked, and when the user moves away, the door is automatically locked or when the ignition knob is turned without operating the key, the engine is turned on. May be started.
[0052]
-The registration ID is not limited to being composed of the master ID and the password. For example, only the master ID or the password may be used. The registration ID is not particularly limited as long as the master ID can be derived.
[0053]
The owner of the vehicle 4 registers the password in the server 3, and the sub-ID is downloaded to the mobile phone 7 accessed using the password within a predetermined time (for example, 1 to 5 hours) after the registration. You may.
[0054]
When permitting the vehicle 4 to be rented, the master ID and the password are not limited to being provided in the form of e-mail, and these numbers may be provided orally, for example, through a telephone port.
[0055]
When receiving the registration ID, the server 3 is not limited to downloading the sub ID only to the mobile phone 7. For example, the server 3 may download the sub-IDs to both the mobile phone and the vehicle 4 and perform short-range communication between the mobile phone 7 and the vehicle 4 based on these codes.
[0056]
The use restriction of the vehicle 4 is not limited to the expiration date of the sub-ID. For example, only the locking / unlocking of the door lock may be permitted and other functions may not be used. If the expiration date is exceeded, the door lock control can be performed with the sub ID, but a restriction that the engine cannot be started may be imposed.
[0057]
In the case where the sub-ID has an expiration date, it is not limited to determining whether the sub-ID has passed the expiration date using the time stamp. For example, the sub ID itself may be used as an ID for the expiration date, and the microcomputer 19 of the vehicle 4 may calculate the use period when the sub ID is input, and may not operate the vehicle 4 if the use period exceeds the expiration date.
[0058]
-The mobile terminal is not limited to the mobile phone 7. For example, the mobile terminal may be a personal computer or the like capable of communicating with the server 3, and is not particularly limited as long as the sub ID can be transmitted via wireless communication.
[0059]
The various functions performed by the vehicle 4 by the short-range communication using the Bluetooth of the mobile phone 7 are not limited to door lock or unlock, engine start, and the like, and the functions are not particularly limited as long as the vehicle 4 is operated. .
[0060]
The first wireless communication network is not limited to the public telephone line 6, and for example, a dedicated line network may be used. Further, the second wireless communication network is not limited to Bluetooth, and another wireless communication method such as IrDA may be used.
[0061]

The control target of the mobile phone 7 is not limited to the vehicle 4 and may be, for example, a door of a house entrance. That is, the entrance door or the like may be locked or unlocked by the sub ID downloaded to the mobile phone 7. When the vehicle 4 is to be controlled, the vehicle 4 is not limited to an automobile, but may be, for example, a motorcycle or an industrial vehicle, and the type of the vehicle is not particularly limited.
[0062]
The technical ideas other than the claims that can be grasped from the embodiment and other examples will be described below together with their effects.
(1) In claim 1 or 2, the management server causes the portable terminal to download an identification code with an expiration date as the restriction.
[0063]
(2) In claim 7, the management server causes the portable terminal to download an identification code for restricting the operation of the driving device, and the control unit restricts the operation of the driving device based on the restricted identification code. .
[0064]
(3) In claim 7, in the technical idea (2), the identification code includes restriction information for restricting an operation of the driving device, and the control unit controls the driving device based on the restriction information. Restrict operations.
[0065]
(4) In claim 7, in the technical ideas (2) and (3), the restriction information is time information for setting a time limit during which the driving device can operate, and the control unit includes the time information. The operation time of the driving device is limited based on the operation time.
[0066]
(5) In claim 7, in the technical ideas (2) to (4), the control unit and the driving device are mounted on a vehicle, and the control unit transmits the identification code registered in the portable terminal by short-range communication. Upon receiving the identification codes, if the identification codes match, the operation of the driving device to be permitted when the identification codes match is executed.
[0067]
(6) In claim 7, in the technical ideas (2) to (5), the driving device is a locking / unlocking device that locks / unlocks a door, and the control unit transmits an identification code registered in the mobile terminal. The lock is received by the short-range communication, and if the identification codes match, the locking / unlocking device is operated to open / close the door.
[0068]
【The invention's effect】
As described in detail above, according to the present invention, if the registration identification information transmitted from the mobile terminal is correct, the identification code is downloaded to the mobile terminal by the management server. The trouble of going to is gone.
[Brief description of the drawings]
FIG. 1 is a schematic configuration diagram of an ID key system according to an embodiment.
FIG. 2 is a flowchart executed on the server side when a sub ID is distributed.
FIG. 3 is a flowchart similarly executed on the mobile phone side.
FIG. 4 is a flowchart similarly executed on the vehicle side.
[Explanation of symbols]
DESCRIPTION OF SYMBOLS 1 ... Identification code distribution system, 3 ... Server (management server), 4 ... Vehicle, 5 ... Controller as control means, 6 ... Public telephone line as public line network, 7 ... Mobile telephone as portable terminal, 16 ... Narrow A first communication circuit as an area communication means; 24 a door lock drive as a drive (locking / unlocking device); 25 an engine starter as a drive.

Claims (8)

Hide Dependent

translated from Japanese

If the mobile terminal is capable of performing short-range communication with the short-range communication means, and the identification code received from the mobile terminal matches when the short-range communication link is established with the mobile terminal, the matching is determined. Control means for executing or permitting an operation of a predetermined drive device to be permitted at the time,
And a management server that causes the portable terminal to download an identification code corresponding to the registered identification information when the matching of the registered identification information received from the portable terminal connected via a public line network matches. Characteristic identification code distribution system. The management server causes the portable terminal to download an identification code that restricts the operation of the driving device, and the control unit restricts the operation of the driving device based on the restricted identification code. The identification code distribution system described in 1. The identification according to claim 2, wherein the identification code includes restriction information for restricting the operation of the driving device, and the control unit restricts the operation of the driving device based on the restriction information. Code distribution system. 4. The control device according to claim 3, wherein the restriction information is time information for setting a period in which the driving device can operate, and the control unit restricts an operation time of the driving device based on the time information. 5. ID code distribution system. The control means and the driving device are mounted on a vehicle, and the control means receives the identification code registered in the portable terminal by short-range communication, and if the identification code matches, the permission should be granted at the time of matching. The identification code distribution system according to any one of claims 1 to 4, wherein the operation of the driving device is performed. The driving device is a locking / unlocking device for locking / unlocking a door, and the control unit receives an identification code registered in the portable terminal through short-range communication, and if the collation of the identification code matches, the locking / unlocking device. The identification code distribution system according to any one of claims 1 to 5, wherein the door is operated to release the door. The management server downloads the identification code to the portable terminal based on the registered identification information obtained from the portable terminal via the public line network, and when the link of the short-range communication by the short-range communication means of the portable terminal is established. The portable terminal transmits the identification code to the control means of the link destination via the short-range communication means, and if the collation of the received identification code coincides, the control means determines whether or not the identification code should be permitted when the collation coincides And / or permitting the operation of the driving device of (1). If the mobile terminal is capable of performing short-range communication with the short-range communication means, and the identification code received from the mobile terminal matches when the short-range communication link is established with the mobile terminal, the matching is determined. An identification code distribution program used in an identification code distribution system including control means for executing or permitting an operation of a predetermined driving device to be permitted at the time,
Capturing registration identification information from a mobile terminal via a public line network;
Determining whether the registration identification information is correct;
Causing the portable terminal to download an identification code to the portable terminal via the public network when the registered identification information is correct.

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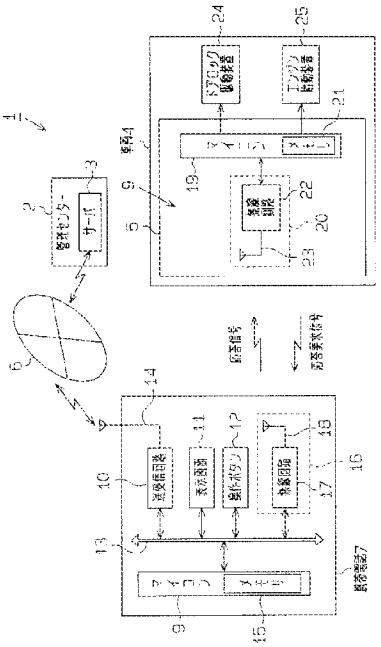
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(71)出願人　000003551
株式会社東海理化電機製作所
愛知県丹羽郡大口町豊田三丁目２６０番地
(74)代理人　100068755
弁理士　恩田　博宣
(74)代理人　100105957
弁理士　恩田　誠
(72)発明者　梅田　文雄
愛知県丹羽郡大口町豊田三丁目２６０番地
株式会社東海理化電機製作所内

最終頁に続く

(54)【発明の名称】識別コード配信システム、識別コード配信方法及び識別コード配信用プログラム

(57)【要約】
【課題】キーを借りに行く煩わしさをなくすことができる識別コード配信システム、識別コード配信方法及び識別コード配信用プログラムを提供する。
【解決手段】サーバ３は携帯電話７から登録用ＩＤを公衆回線網６を介して取り込み、個人認証結果が正しければ公衆回線網６を介してセットアップ用プログラム、サブＩＤ及びタイムスタンプデータを携帯電話７にダウンロードさせる。携帯電話７はサブＩＤをダウンロードすると、キーの代わりとなる。そして、携帯電話７と車両４とのリンクが確立し、携帯電話７のサブＩＤの照合結果が一致すれば、携帯電話７によって車両４の各種機能動作が実行される。
【選択図】　図１



【特許請求の範囲】
【請求項１】
携帯端末が有する狭域通信手段と狭域通信可能であり、前記携帯端末と狭域通信のリンクが確立されたときに該携帯端末から受信した識別コードの照合が一致すれば、該照合の一致時に許可すべき所定の駆動装置の動作を実行又は許可する制御手段と、
公衆回線網を介して接続された前記携帯端末から受信した登録識別情報の照合が一致すれば、前記携帯端末に対し前記登録識別情報に応じた識別コードをダウンロードさせる管理サーバと
を備えたことを特徴とする識別コード配信システム。
【請求項２】
前記管理サーバは前記駆動装置の動作を制限する識別コードを前記携帯端末にダウンロードさせ、前記制御手段は制限付きの前記識別コードに基づき前記駆動装置の動作を制限することを特徴とする請求項１に記載の識別コード配信システム。
【請求項３】
前記識別コードには前記駆動装置の動作を制限するための制限情報が含まれ、前記制御手段は前記制限情報に基づき前記駆動装置の動作を制限することを特徴とする請求項２に記載の識別コード配信システム。
【請求項４】
前記制限情報は前記駆動装置が動作可能な期限を設定するための時間情報であり、前記制御手段は前記時間情報に基づき前記駆動装置の動作時間を制限することを特徴とする請求項３に記載の識別コード配信システム。
【請求項５】
前記制御手段及び駆動装置は車両に搭載され、前記制御手段は前記携帯端末に登録された識別コードを狭域通信により受信し、該識別コードの照合が一致すれば該照合の一致時に許可すべき前記駆動装置の作動を実行することを特徴とする請求項１～４のうちいずれか一項に記載の識別コード配信システム。
【請求項６】
前記駆動装置はドアの施解錠を行う施解錠装置であり、前記制御手段は前記携帯端末に登録された識別コードを狭域通信により受信し、該識別コードの照合が一致すれば前記施解錠装置を作動して前記ドアを施解除することを特徴とする請求項１～５のうちいずれか一項に記載の識別コード配信システム。
【請求項７】
携帯端末から公衆回線網を介して取得した登録識別情報を基に管理サーバは識別コードを前記携帯端末にダウンロードさせ、前記携帯端末が有する狭域通信手段による狭域通信のリンクが確立されると、前記携帯端末は前記狭域通信手段を介してリンク先の制御手段に前記識別コードを送信し、前記制御手段は受信した識別コードの照合が一致すれば、該照合の一致時に許可すべき所定の駆動装置の動作を実行又は許可することを特徴とする識別コード配信方法。
【請求項８】
携帯端末が有する狭域通信手段と狭域通信可能であり、前記携帯端末と狭域通信のリンクが確立されたときに該携帯端末から受信した識別コードの照合が一致すれば、該照合の一致時に許可すべき所定の駆動装置の動作を実行又は許可する制御手段を備えた識別コード配信システムに使用される識別コード配信用プログラムであって、
携帯端末から公衆回線網を介して登録識別情報を取り込むステップと、
前記登録識別情報が正しいか否かを判断するステップと、
前記登録識別情報が正しいときに前記公衆回線網を介して識別コードを前記携帯端末にダウンロードさせるステップと
を備えたことを特徴とする識別コード配信用プログラム。
【発明の詳細な説明】
【０００１】

【発明の属する技術分野】
本発明は、識別コード配信システム、識別コード配信方法及び識別コード配信用プログラムに関するものである。
【０００２】
【従来の技術】
近年、車両の操作性向上を目的として、機械的なキー操作をすることなく車両の各種動作を行うシステムが開発されている。そのシステムの１つにスマートキーシステムがある。スマートキーシステムとはユーザ（運転者）が携帯機（スマートキー）を携帯してドアに近づけばドアロックが解錠され、遠ざかれば施錠されるキーレスエントリ機能や、キーをシリンダに差し込まなくてもイグニッションスイッチを回せばエンジンが始動するイグニッション機能等を備えたシステムである。
【０００３】
詳述すると、携帯機を持ったユーザが近づくと、車両から出力されたリクエスト信号に携帯機が反応してＩＤコードを発信する。そして、車両に搭載されたＥＣＵ（例えばスマートＥＣＵ）がこのＩＤコードを照合し、ＩＤコードが正しければドアロックを解錠する。このとき、エンジンはエンジン始動が許可された状態となり、キーを使わなくてもイグニッションノブを回すだけでエンジン始動が可能な状態となる。一方、ＥＣＵはＩＤコードを受け付けなくなったとき、ユーザが車両から離れたと認識してドアロックを施錠する。
【０００４】
【発明が解決しようとする課題】
ところで、この種のスマートキーシステムによって車両の操作性向上を図っても、車両を借りる場合にはこれらキーを持ち主のところまでわざわざ借りに行く必要があり、車両を借りる際に煩わしさが生じていた。特に、キーを所有した車両の持ち主が車両から離れた場所にいるとき、キーを借りるにはその離れた場所まで行く必要があり、車両を借りられなかったり、遠くまでキーを取りに行く必要があるなどの不都合が生じる。
【０００５】
本発明は前記の問題点に鑑みてなされたものであって、その目的は、キーを借りに行く煩わしさをなくすことができる識別コード配信システム、識別コード配信方法及び識別コード配信用プログラムを提供することにある。
【０００６】
【課題を解決するための手段】
上記問題点を解決するために、請求項１に記載の発明では、携帯端末が有する狭域通信手段と狭域通信可能であり、前記携帯端末と狭域通信のリンクが確立されたときに該携帯端末から受信した識別コードの照合が一致すれば、該照合の一致時に許可すべき所定の駆動装置の動作を実行又は許可する制御手段と、公衆回線網を介して接続された前記携帯端末から受信した登録識別情報の照合が一致すれば、前記携帯端末に対し前記登録識別情報に応じた識別コードをダウンロードさせる管理サーバとを備えたことを要旨とする。
【０００７】
この発明によれば、携帯端末から登録識別情報が公衆回線網に向けて発信される。そして、管理サーバはその登録識別情報を入力し、登録識別情報の照合が一致すれば、携帯端末に対し登録識別情報に応じた識別コードをダウンロードさせる。識別コードがダウンロードされた携帯端末を用いて狭域通信のリンクが確立したとき、識別コードの照合が一致すれば制御手段によって許可すべき所定の駆動装置の動作が実行又は許可される。従って、携帯端末がキーの代わりとなるので、他人は駆動装置を動作させるためにわざわざキーを取りに行く必要がなくなる。
【０００８】
請求項２に記載の発明では、請求項１に記載の発明において、前記管理サーバは前記駆動装置の動作を制限する識別コードを前記携帯端末にダウンロードさせ、前記制御手段は制限付きの前記識別コードに基づき前記駆動装置の動作を制限することを要旨とする。
【０００９】

この発明によれば、請求項１に記載の発明の作用に加え、携帯端末には駆動装置の動作を制限する識別コードがダウンロードされるので、ダウンロード先の他人に駆動装置を自由に動作させずに済む。

【００１０】

請求項３に記載の発明では、請求項２に記載の発明において、前記識別コードには前記駆動装置の動作を制限するための制限情報が含まれ、前記制御手段は前記制限情報に基づき前記駆動装置の動作を制限することを要旨とする。

【００１１】

この発明によれば、請求項２に記載の発明の作用に加え、制限付きか否かの判断は識別コードに含まれる制限情報により行われるので、識別コード自体を制限付きのコードとする場合に比べてシステムが簡単なもので済む。

【００１２】

請求項４に記載の発明では、請求項３に記載の発明において、前記制限情報は前記駆動装置が動作可能な期限を設定するための時間情報であり、前記制御手段は前記時間情報に基づき前記駆動装置の動作時間を制限することを要旨とする。

【００１３】

この発明によれば、請求項３に記載の発明の作用に加え、制限情報は時間情報であるので、識別コードの制限として有効期限が設定される。従って、他人の携帯端末に識別コードを登録させても、他人に対しては所定の間だけ駆動装置の動作を実行又は許可することが可能となる。

【００１４】

請求項５に記載の発明では、請求項１～４のうちいずれか一項に記載の発明において、前記制御手段及び駆動装置は車両に搭載され、前記制御手段は前記携帯端末に登録された識別コードを狭域通信により受信し、該識別コードの照合が一致すれば該照合の一致時に許可すべき前記駆動装置の作動を実行することを要旨とする。

【００１５】

この発明によれば、請求項１～４のうちいずれか一項に記載の発明の作用に加え、制御手段の制御対象が車両に搭載された駆動装置であるので、識別コードをダウンロードした携帯端末によって車両の各種機能の動作が行える。

【００１６】

請求項６に記載の発明では、請求項１～５のうちいずれか一項に記載の発明において、前記駆動装置はドアの施解錠を行う施解錠装置であり、前記制御手段は前記携帯端末に登録された識別コードを狭域通信により受信し、該識別コードの照合が一致すれば前記施解錠装置を作動して前記ドアを施解除することを要旨とする。

【００１７】

この発明によれば、請求項１～５のうちいずれか一項に記載の発明の作用に加え、制御手段の制御対象がドアの施解錠を行う施解錠装置であるので、識別コードをダウンロードした携帯端末によってドアの施錠或いは解錠が行える。

【００１８】

請求項７に記載の発明では、携帯端末から公衆回線網を介して取得した登録識別情報を基に管理サーバは識別コードを前記携帯端末にダウンロードさせ、前記携帯端末が有する狭域通信手段による狭域通信のリンクが確立されると、前記携帯端末は前記狭域通信手段を介してリンク先の制御手段に前記識別コードを送信し、前記制御手段は受信した識別コードの照合が一致すれば、該照合の一致時に許可すべき所定の駆動装置の動作を実行又は許可することを要旨とする。

【００１９】

この発明によれば、請求項１と同様の作用が得られる。

請求項８に記載の発明では、携帯端末が有する狭域通信手段と狭域通信可能であり、前記携帯端末と狭域通信のリンクが確立されたときに該携帯端末から受信した識別コードの照合が一致すれば、該照合の一致時に許可すべき所定の駆動装置の動作を実行又は許可する

制御手段を備えた識別コード配信システムに使用される識別コード配信用プログラムであって、携帯端末から公衆回線網を介して登録識別情報を取り込むステップと、前記登録識別情報が正しいか否かを判断するステップと、前記登録識別情報が正しいときに前記公衆回線網を介して識別コードを前記携帯端末にダウンロードさせるステップとを備えたことを要旨とする。

【００２０】

この発明によれば、請求項１と同様の作用が得られる。

【００２１】

【発明の実施の形態】

以下、本発明を具体化した識別コード配信システムの一実施形態を図１～図３に従って説明する。

【００２２】

図１は、識別コード配信システム１の概略的な構成図である。識別コード配信システム１は、管理センター（管理会社）２に設置された管理サーバ（以下、単にサーバと記す）３と、車両４に搭載された制御手段としてのコントローラ５とを備えている。サーバ３は公衆回線網としての公衆電話回線６を介して外部と通信可能であり、ここでは携帯端末としての携帯電話７と各種データのやり取りを行う。また、コントローラ５はブルートゥース（Ｂｌｕｅｔｏｏｔｈ）（Ｒ）を介して携帯電話７と通信可能となっている。

【００２３】

サーバ３には制御ソフト、サブＩＤのＩＤコード（識別コード）及びタイムスタンプのデータが記憶されている。制御ソフトはＩＤキーシステム用プログラムを携帯電話７にセットアップするプログラムや、携帯電話７によって車両制御（ドアロック制御、エンジン制御等）を行うプログラムである。また、サブＩＤは携帯電話７に登録される使用制限付きのＩＤである。タイムスタンプはサブＩＤを携帯電話７にダウンロードしたときの日時である。そして、サーバ３は携帯電話７からのリクエストに応じて公衆電話回線６を介して制御ソフト、サブＩＤ、タイムスタンプ等を携帯電話７にダウンロードさせる。

【００２４】

車両４はＩＤキーシステム８を備え、このＩＤキーシステム８は携帯電話７で車両４の所定動作を可能とするシステムである。このＩＤキーシステム８では携帯電話７によって、例えばドアのロック或いはアンロックやエンジンスタートが行われる。また、携帯電話７は公衆電話回線６を用いた無線用電話機である。本例の携帯電話７は位置づけとして車両４の持ち主ではない人が所有する携帯電話であり、携帯電話７の所有者は車両４の持ち主から車両の貸し出しが許可された人である。

【００２５】

携帯電話７はマイコン９、送受信回路１０、表示画面１１及び操作ボタン１２を備え、これらはバス１３を通じて相互に接続されている。マイコン９は携帯電話７を電話として機能させる処理を行い、例えば表示画面１１の表示制御や操作ボタン１２の入力に基づく各種動作を実行する。また、送受信回路１０はアンテナ１４から発信する発信信号を変調したり、外部からアンテナ１４を介して受信した電波の受信信号を復調する。また、マイコン９にはメモリ１５が内蔵されている。

【００２６】

車両４の持ち主が車両貸し出しを許可した場合、持ち主は自分の携帯電話やパソコン等を用いて、マスターＩＤとサーバ接続時に必要なパスワードとを、例えばメール形式で携帯電話７に送信する。ここで、マスターＩＤとパスワードの送信形式はメールに限らず、例えば電話等を用いて口頭で知らせるなど、これら情報を通達できればどのような形式でもよい。

【００２７】

そして、携帯電話７にマスターＩＤとパスワードとを登録用ＩＤ（登録識別情報）として入力し、携帯電話７をサーバ３に接続する。すると、サーバ３は登録用ＩＤに基づき個人認証を行い、認証結果が正しければ公衆電話回線６を介して制御ソフト、サブＩＤ及びタ

イムスタンプデータ（制限情報（時間情報））を携帯電話７に発信する。携帯電話７はＩＤキーシステム用プログラムを基にセットアップを行い、そのセットアップ後にサブＩＤ及びタイムスタンプデータをメモリ１５にダウンロードする。また、携帯電話７がサブＩＤを受信すると、マイコン９はマスターＩＤとサブＩＤとを組み合わせて暗号化ＩＤを生成する。

【００２８】

携帯電話７がセットアップされると、携帯電話７の操作ボタン１２には各種操作機能が割り付けられる。この割付けとしては、例えば操作ボタン１２の「１」がドアをロック又はアンロックするボタン、「２」がエンジンスタートのボタンに設定される。そして、この状態で操作ボタン１２が操作されると、その各ボタンの機能に応じた機能コマンドが携帯電話７からブルートゥースを介して外部に発信される。

【００２９】

携帯電話７はブルートゥース用チップからなる狭域通信手段としての第１通信回路１６を備え、第１通信回路１６は狭域通信により車両４と無線信号のやり取りを実行する。また、第１通信回路１６はモジュール化された無線回路１７とアンテナ１８とを内蔵している。無線回路１７は外部からアンテナ１８を介して取り込んだ無線信号をマイコン９が読み取れるように変換するとともに、マイコン９からの指令に応じて無線信号をアンテナ１８を介して外部に発信する。

【００３０】

車両４のコントローラ５は、マイコン１９及び第２通信回路２０を備えている。マイコン１９にはメモリ２１が内蔵され、メモリ２１にはマスターＩＤとサブＩＤのＩＤコードが記憶されている。また、第２通信回路２０は携帯電話７の第１通信回路１６と組をなすもので、携帯電話７の第１通信回路１６と通信可能となっている。第２通信回路２０は第１通信回路１６とほぼ同様の回路構成でワンチップのＩＣからなり、モジュール化された無線回路２２とアンテナ２３とを内蔵している。

【００３１】

マイコン１９は第２通信回路２０を駆動して、アンテナ２３から応答要求信号を間欠的に発信させる。そして、携帯電話７が応答要求信号を受信した状態（リンクが確立した状態）で操作ボタン１２が押されると、マイコン９は操作された操作ボタン１２に応じた機能コマンド、暗号化ＩＤ及びタイムスタンプを乗せた応答信号を第１通信回路１６から車両４に向けて発信させる。第２通信回路２０はその応答信号をアンテナ２３を介して受信し、マイコン１９は携帯電話７からのＩＤコードとメモリ２１のＩＤコードとを比較してコード照合を実行する。

【００３２】

コード照合が一致すると、マイコン１９は携帯電話７から発信された機能コマンドに応じた各種機能を実行する。例えば、ドアロックが施錠された状態で操作ボタン１２のうち「１」が押されると、マイコン１９は駆動装置（施解錠装置）としてのドアロック駆動装置２４を駆動してドアロックを解錠する。一方、ドアロックが解錠された状態で操作ボタン１２の「１」が押されるとドアロックが施錠される。また、運転者が運転席に座った状態で操作ボタン１２の「２」が押されると、マイコン１９は駆動装置としてのエンジン始動装置２５を駆動して燃料噴射及びエンジン点火を実行してエンジンを始動する。

【００３３】

また、マイコン１９は暗号化ＩＤを入力したとき、タイムスタンプデータに基づきそのデータの日付から今現在までの間の期間（使用期間）を算出し、サブＩＤの使用期間が有効期限以内か否かを判断する。マイコン１９は携帯電話７にサブＩＤをダウンロードしてからの使用期間が予め設定された有効期限内で、かつマスターＩＤとサブＩＤのＩＤ照合が一致すれば、携帯電話７から受信した機能コマンドに従って各種動作を実行する。

【００３４】

一方、マイコン１９はサブＩＤの使用期間が予め設定された有効期限を超えている場合、そのサブＩＤを受け付けない。このため、サブＩＤの使用期間が有効期限を超えていると

き、その携帯電話７ではドアのロック（アンロック）やエンジンスタート等の車両動作を行うことが不可能となる。

【００３５】

次に、サブＩＤ配信後に実行される有効期限処理について図２～図４に示すフローチャートに従って説明する。まず、有効期限処理としてサーバ３は図２に示すフローを実行する。

【００３６】

Ｓ１００では、携帯電話７から公衆電話回線６を介して登録用ＩＤ（マスターＩＤ及びパスワード）を受信する。

Ｓ１０１では、登録用ＩＤが正しいか否かを判断する。そして、登録用ＩＤが正しければＳ１０３に移行し、正しくなければこのフローを終了する。

【００３７】

Ｓ１０２では、サブＩＤのＩＤコードとタイムスタンプデータとを外部に発信する。

続いて、サーバ３と携帯電話７との無線通信時、携帯電話７のマイコン９は図３に示すフローを実行する。

【００３８】

ステップ（以下、単にＳと記す）２００では、サブＩＤのＩＤコードとタイムスタンプデータとを受信する。即ち、携帯電話７から登録用ＩＤをサーバ３に発信し、個人認証が正しいと携帯電話７はシステムセットアップを行うとともに、サブＩＤとタイムスタンプとを取り込む。

【００３９】

Ｓ２０１では、サブＩＤとマスターＩＤとで暗号化ＩＤを生成する。

Ｓ２０２では、携帯電話７の所有者が車両４の所定領域に入り込んで、携帯電話７と車両４とが狭域通信を実行するとき、暗号化ＩＤとタイムスタンプデータとを送信する。このため、暗号化ＩＤとタイムスタンプデータとがブルートゥースを介して車両４に発信される。

【００４０】

そして、携帯電話７と車両４との狭域通信時、車両４のマイコン１９は図４に示すフローを実行する。

Ｓ３００では、暗号化ＩＤ及びタイムスタンプを携帯電話７から受信する。即ち、携帯電話７から発信された暗号化ＩＤのＩＤコードとタイムスタンプデータとを第２通信回路２０を介して受信し、暗号化ＩＤとタイムスタンプとを取り込む。

【００４１】

Ｓ３０１では、暗号化ＩＤを解読する。即ち、暗号化ＩＤが暗号化ルールに従って読み取られ、マスターＩＤとサブＩＤとを割り出す。

Ｓ３０２では、タイムスタンプの期限判断を実行する。即ち、タイムスタンプの日付から今現在までの経過時間（日数）を求め、サブＩＤの使用期間が算出される。

【００４２】

Ｓ３０３では、サブＩＤの使用期間が有効期限内か否かを判断する。ここで、使用期間が有効期限内であるときにはＳ３０４に移行し、有効期限を超えるときにはＳ３０５に移行する。

【００４３】

Ｓ３０４では、携帯電話７から受信した機能コマンドに従い、そのコマンドの処理を実行する。これにより、車両４のドアロック駆動装置２４がロック又はアンロックされたり、エンジン始動装置２５が作動されてエンジンがスタートされる。

【００４４】

Ｓ３０５では、携帯電話７から発信されたサブＩＤを破棄する。即ち、携帯電話７から取り込んだサブＩＤが有効期限を超えていると、そのサブＩＤが破棄され、この携帯電話７で車両４の各種機能を実行できない状態となる。

【００４５】

本例では、車両４を他人に貸し出す場合、車両４の持ち主は登録用ＩＤを他人に教え、他人の携帯電話７で管理センター２にアクセスする。すると、登録用ＩＤが正しければ携帯電話７に識別コードがダウンロードされ、携帯電話７が車両キーとして使用可能になる。従って、車両４を貸し出す場合があっても、携帯電話７にサブＩＤをダウンロードすればその携帯電話７が車両キーの代わりとなるので、他人は車両４を貸して貰うときにわざわざキーを取りに来る必要がなくなる。

【００４６】

ところで、携帯電話７にサブＩＤをダウンロードした携帯電話７を車両キーとして使用する場合、サブＩＤが無期限で使用可能であるとそのサブＩＤが悪用されて車両盗難に結び付く可能性もある。また、携帯電話７は落としたり、よく買い替えたりするので、サブＩＤが盗まれて車両盗難に繋がることも考えられる。

【００４７】

しかし、携帯電話７のサブＩＤの使用期間が有効期限を越えると、そのサブＩＤが無効になって車両４を動作できなくなる。従って、他人にサブＩＤを登録させても、有効期限を超えた後はその携帯電話７で車両４が操作されずに済み、車両盗難の発生率を低く抑えられる。また、サブＩＤの有効期限が過ぎてしまった場合には、再び携帯電話７を管理センター２に接続して新たにサブＩＤを携帯電話７に再登録し、携帯電話７を車両キーとして使用する。

【００４８】

従って、第１実施形態では以下のような効果を得ることができる。

（１）車両４を他人に貸し出す場合には、貸し出し先に登録用ＩＤを教え、借りる側はその登録用ＩＤを携帯電話７に入力してサーバ３にアクセスする。すると、携帯電話７にサブＩＤをダウンロードすることで携帯電話７が車両キーの代わりとなるので、車両４を借りる際にわざわざ車両キーを借りに出かけずに済む。特に、キーの持ち主が車両４と離れた場所にいると、車両４を借りるにはそこまで取りに行く必要があるが、ここでは携帯電話７にサブＩＤをダウンロードしてキー代わりとして用いるので、キーを取りに行く煩わしさがない。

【００４９】

（２）携帯電話７にダウンロードされたサブＩＤには有効期限が設定される。従って、他人の携帯電話７にサブＩＤを登録しても、有効期限を超えればサブＩＤは無効になるので、サブＩＤが悪用されて車両４が盗難される確率を低く抑えることができる。

【００５０】

（３）例えば、サブＩＤのＩＤコード自体を制限付き用のＩＤとすることもできるが、これだと車両４側のマイコン１９は負荷のかかる処理を行うことになる。しかし、サーバ３から送られるタイムスタンプに基づき、マイコン１９によってサブＩＤの使用期間が有効期限か否かが判断されるので、比較的簡単なプログラムを用いるだけで済む。

【００５１】

なお、実施形態は前記に限定されるものではなく、例えば、次のように変更してもよい。

・　ドアロック又はアンロックやエンジンスタート等の車両４の各種動作は、携帯電話７の操作ボタン１２を押すことで作動することに限定されず、例えばスマートキーシステムを採用してもよい。即ち、携帯電話７を携帯したユーザ（運転者）が車両４に近づけばドアロックが自動で解錠され、遠ざかれば自動で施錠されたり、キー操作をしなくてもイグニッションノブを回せばエンジンが始動するようにしてもよい。

【００５２】

・　登録用ＩＤはマスターＩＤとパスワードとから構成されることに限定されない。例えば、マスターＩＤのみやパスワードのみでもよい。また、登録用ＩＤはマスターＩＤが導けるものであれば、特にその内容は限定されない。

【００５３】

・　車両４の持ち主がパスワードをサーバ３に登録し、その登録後の所定時間（例えば１～５時間）以内にそのパスワードを使ってアクセスした携帯電話７に対し、サブＩＤがダ

ウンロードされるようにしてもよい。

【００５４】

・　車両４の貸し出しを許可するとき、マスターＩＤとパスワードとをメール形式で教えることに限定されず、例えば電話口等の口頭でこれら番号を教えてもよい。

【００５５】

・　サーバ３は登録用ＩＤを受信したとき、携帯電話７のみにサブＩＤをダウンロードすることに限定されない。例えば、サーバ３は携帯電話と車両４との両方にサブＩＤをダウンロードし、これらコードに基づき携帯電話７と車両４との狭域通信を行ってもよい。

【００５６】

・　車両４の使用制限はサブＩＤの有効期限に限らず、例えばドアロックの施錠・解錠のみが許可されて、その他の機能が使用できない構成としてもよい。また、有効期限を超えるとそのサブＩＤではドアロック制御が可能なものの、エンジンスタートが行えない制限をかけてもよい。

【００５７】

・　サブＩＤに有効期限を持たせる場合、タイムスタンプを用いてサブＩＤが有効期限を過ぎたか否かを判断することに限定されない。例えば、サブＩＤ自体を有効期限用のＩＤとし、車両４のマイコン１９はそのサブＩＤを入力したとき使用期間を求め、使用期間が有効期限を超えれば車両４を動作しないようにしてもよい。

【００５８】

・　携帯端末は携帯電話７に限定されない。例えば、携帯端末はサーバ３と通信可能なパソコン等でもよく、サブＩＤを無線通信を介して発信可能なものであれば特に限定されない。

【００５９】

・　携帯電話７のブルートゥースを用いた狭域通信により車両４が実行する各種機能は、ドアロック或いはアンロックやエンジンスタート等に限らず、車両４を動作させるものであればその機能は特に限定されない。

【００６０】

・　第１無線通信網は公衆電話回線６に限定されず、例えば専用の回線網を用いてもよい。また、第２無線通信網はブルートゥースに限定されず、ＩｒＤＡ等の他の無線通信方式を用いてもよい。

【００６１】

・　携帯電話７による制御対象は車両４に限らず、例えば住宅の玄関のドア等でもよい。即ち、携帯電話７にダウンロードされたサブＩＤによって玄関のドア等がロック又はアンロックされてもよい。また、車両４を制御対象とする場合、車両４は自動車に限らず、例えば二輪車や産業車両等でもよく、車両の種類は特に限定されない。

【００６２】

前記実施形態及び別例から把握できる請求項以外の技術的思想について、以下にその効果とともに記載する。

（１）請求項１又は２において、前記管理サーバは前記制限として有効期限付きの識別コードを前記携帯端末にダウンロードさせる。

【００６３】

（２）請求項７において、前記管理サーバは前記駆動装置の動作を制限する識別コードを前記携帯端末にダウンロードさせ、前記制御手段は制限付きの前記識別コードに基づき前記駆動装置の動作を制限する。

【００６４】

（３）請求項７、前記技術的思想（２）において、前記識別コードには前記駆動装置の動作を制限するための制限情報が含まれ、前記制御手段は前記制限情報に基づき前記駆動装置の動作を制限する。

【００６５】

（４）請求項７、前記技術的思想（２）、（３）において、前記制限情報は前記駆動装置

が動作可能な期限を設定するための時間情報であり、前記制御手段は前記時間情報に基づき前記駆動装置の動作時間を制限する。

【００６６】

（５）請求項７、前記技術的思想（２）～（４）において、前記制御手段及び駆動装置は車両に搭載され、前記制御手段は前記携帯端末に登録された識別コードを狭域通信により受信し、該識別コードの照合が一致すれば該照合の一致時に許可すべき前記駆動装置の作動を実行する。

【００６７】

（６）請求項７、前記技術的思想（２）～（５）において、前記駆動装置はドアの施解錠を行う施解錠装置であり、前記制御手段は前記携帯端末に登録された識別コードを狭域通信により受信し、該識別コードの照合が一致すれば前記施解錠装置を作動して前記ドアを施解除する。

【００６８】

【発明の効果】

以上詳述したように本発明によれば、携帯端末から発信された登録識別情報が正しければ管理サーバによって携帯端末に識別コードがダウンロードされるので、その携帯端末がキーの代わりとなり、キーを借りに行く煩わしさがなくなる。

【図面の簡単な説明】

【図１】一実施形態におけるＩＤキーシステムの概略的な構成図。

【図２】サブＩＤの配信時にサーバ側で実行されるフローチャート。

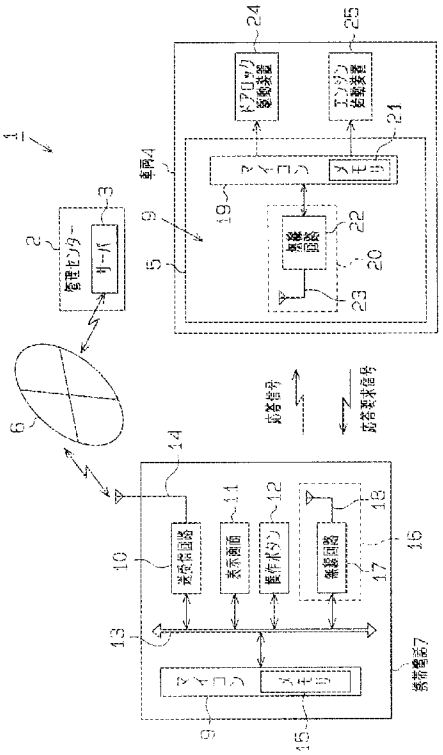
【図３】同じく携帯電話側で実行されるフローチャート。

【図４】同じく車両側で実行されるフローチャート。

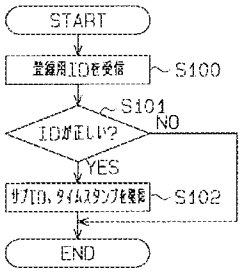
【符号の説明】

１…識別コード配信システム、３…サーバ（管理サーバ）、４…車両、５…制御手段としてのコントローラ、６…公衆回線網としての公衆電話回線、７…携帯端末としての携帯電話、１６…狭域通信手段としての第１通信回路、２４…駆動装置（施解錠装置）としてのドアロック駆動装置、２５…駆動装置としてのエンジン始動装置。

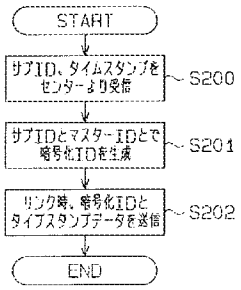
【図１】


1
2
管理センター
サーバ
3
車両4
5
9
19
アンテコン
メモリ
21
22
20
23
24
25
6
14
10
11
12
18
16
17
13
15
表示画面
操作ボタン
携帯機器7
送信信号
応答要求信号

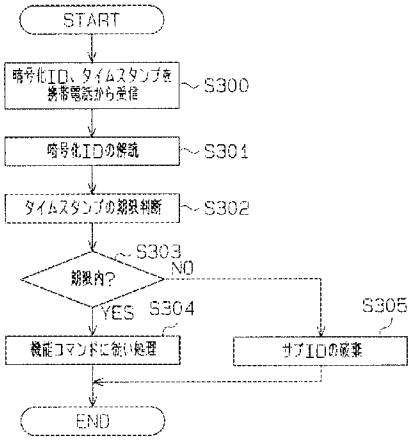
【図２】


START
登録用IDを受信
S100
S101
IDが正しい?
NO
YES
サブID、タイムスタンプを登録
S102
END

【図３】


START
サブID、タイムスタンプをセンターより受信
S200
サブIDとマスターIDとで暗号化IDを生成
S201
リンク時、暗号化IDとタイムスタンプデータを送信
S202
END

【図４】


START
暗号化ID、タイムスタンプを携帯電話から受信
S300
暗号化IDの解読
S301
タイムスタンプの期限判断
S302
S303
期限内?
NO
YES
S304
S305
機能コマンドに従い処理
サブIDの破棄
END

フロントページの続き

Ｆターム(参考) 2E250 AA02 AA05 AA12 AA21 BB08 BB28 BB55 BB59 BB65 CC12
CC16 CC20 DD01 DD06 EE02 EE03 EE10 EE15 FF23 FF25
FF27 FF34 FF36 GG08 GG13 HH06 HH07 JJ03 KK03 LL00
LL01 SS04 SS09 SS11 TT03
5K101 KK11 LL12 MM07 NN21 PP04

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APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
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Title of Invention

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1006	FILED BY	Albert Penilla
PATENT CENTER #	69123623	AUTHORIZED BY	-
CUSTOMER #	25920	FILING DATE	07/25/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Angel A. Penilla

Payment Information

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If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

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Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
VOLTP0185_1_C4_Amendment_2102025_Efiled.pdf	10	Amendment/Request for Reconsideration-After Non-Final Rejection	64 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
VOLTP0185_1_C4_Amendment_2102025_Efiled.pdf	3F012F18790F777A5EF808405114C93108B34DB1FA596812AFB7C52221BF23C94763DEAC32F3DB1688872E410DE1B1C87F6C04F8F3751B825E629F8B834A1277

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APPROVAL LETTER

APPLICATION #	FILING DATE	APPLICANT/PATENT UNDER REEXAMINATION
17/873,096	07/25/2022	Angel Penilla

Title of Invention

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Electronic terminal disclaimer filed on 02/10/2025

Approved

This patent is subject to a Terminal Disclaimer

Approved / Disapproved by: Electronic Terminal Disclaimer automatically approved

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/873,096	**02/10/2025 04:50:21 PM Z ET**	**VOLTP018.5.1.C4**

Title of Invention

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1006	FILED BY	Albert Penilla
PATENT CENTER #	69123748	FILING DATE	07/25/2022
CUSTOMER #	25920	FIRST NAMED INVENTOR	Angel A. Penilla
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
petition-request.pdf	3	Terminal Disclaimer-Filed (Electronic)	44 KB
grantLetter.pdf	1	Terminal Disclaimer-Electronic-Approved	18 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
petition-request.pdf	AB905FEEA9C900FE0C7990A0331DAAB57F8AED9C079C9757 1234975FB33C978D6FC995BCC4306F7B34F264A43D995BD40 2A7C544EE74CCC0E326A748B1A18C08

grantLetter.pdf

F0690004D47EBE9F2B50202BE7084832BD1318F72909BB3379
E791B6D00685D251643DA45C036E9AC21A1F1593A36B0E22A
27FA8B3C8E3147DBA373F8D29826E

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A PRIOR PATENT

APPLICATION #	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET #
17873096	07/25/2022	Angel Penilla	VOLTP018.5.1.C4

Title of Invention

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

- ✓ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action
- ✓ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent interest
Emerging Automotive, LLC	100%
Total	**100%**

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number(s)

Application #	Filing Date

as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the reference application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.
In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

Patent #
9229905

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.
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I hereby declare that all statements made herein of my own knowledge are true and that all statemnts made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I certify, in accordance with 37 CFR 1.4(d)(4) that I am: An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Signature	Name	Registration #
/Albert Penilla/	Albert Penilla	39487

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* Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP 324.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/873,096	**02/10/2025 04:50:21 PM Z ET**	**VOLTP018.5.1.C4**

Title of Invention

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

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CONFIRMATION #	1006	FILED BY	Albert Penilla
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CUSTOMER #	25920	FILING DATE	07/25/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Angel A. Penilla

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 500805	**E202520G50305713**	**Albert Penilla**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2814	STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER	183.00	1	183.00
			TOTAL AMOUNT:	**$183.00**

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New Applications Under 35 U.S.C. 111

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Angel A. Penilla

Application No: 17/873,096

Filed: July 25, 2022

For: METHODS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Group Art Unit: 3665

Confirmation No. 1006

Examiner: Frederick M. Brushaber

Atty. Docket No: VOLTP018.5.1.C4

Date: February 10, 2025

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted to the United States Patent and Trademark Office via electronic filing with EFS-Web on **Feb. 10, 2025.**

/Albert Penilla/

Signed: _____

Albert S. Penilla, Esq.

AMENDMENT

Honorable Commissioner for Patents
Alexandria VA 22313-1450

This paper is responsive to the Office action dated **August 19, 2024**. The due date extends to **February 19, 2025**, with a three-month extension.

The claims begin on page **2** of this paper.

Remarks/Arguments begin on page **8** of this paper.

IN CLAIMS

1-16. (Canceled)

17. (**Currently amended**) A cloud-based system including one or more data centers, and each data center of the cloud-based system includes one or more servers, wherein some of said one or more servers have program instructions for enabling connections with vehicles and providing services to vehicles, wherein one service includes enabling access to settings associated with profiles of user accounts of the cloud-based system, comprising:

a server for receiving a request from a vehicle to access a profile for a user account, the request identifies user information related to a user;

a server for processing at least part of the user information to verify the access, the profile having a plurality of settings of the user preferred for the vehicle having a vehicle type, at least part of the plurality of settings of the profile being stored on storage accessible to said one or more servers; and

a server for transferring, upon verification of the user information and based on determining settings that are compatible, by said server, for said vehicle type, one or more settings of the plurality of settings to the vehicle, the transferring is configured to instruct software and hardware associated the vehicle to enable said one or more settings on [[one]] the vehicle for customizing said vehicle for the user, the request and the transferring being via wireless communication of said vehicle.

18. (Original) The cloud-based system of claim 17, wherein the profile is transferrable to one or more other vehicles.

19. (Original) The cloud-based system of claim 17, wherein the vehicle is configured to use the one or more settings for the vehicle while the profile is active in the vehicle, and said one or more settings are removed when the profile is no longer active in the vehicle, and wherein the request is processed automatically by the vehicle upon a pairing of a user device or input by the user of credentials.

20. (Original) The cloud-based system of claim 17, wherein one or more of the settings are associated with systems of the vehicle, and the systems of the vehicle are configured to receive input or cause one or more actions or functions,

wherein the systems include one or more of a door lock, a heating and cooling system, a speaker, an engine start/shut switch, a user interface, a button, a lever, a key, a graphical user interface (GUI), an electronic component of the vehicle, a telecommunications system, a remote face-to-face conferencing system, a mapping function system, a GPS system, a fingerprint scanner, a touch screen, a navigation system, a wireless communication system, a data encryption system, WiFi logic, Bluetooth logic, NFC logic, a microprocessor, a memory system, a camera, application programming interfaces (APIs) for vehicle systems, kernel level systems, function invoking systems, temperature detection systems, HVAC APIs, display screens, data network logic, mechanical systems, electrical systems, physical mechanical and electrical systems, seat mechanical systems, mirror systems, alarm systems, battery systems, battery, lighting systems, an application shared by mobile a device present and paired with the vehicle for providing at least one interface in a display screen of the vehicle, or vehicle electronics system.

21. (**New**) The cloud-based system of claim 17, wherein said server determining settings compatible for said vehicle type includes processing by a mapping engine to

determine information associated with the vehicle type to identify settings from said profile that are incompatible with the vehicle type.

22. (**New**) The cloud-based system of claim 17, further comprising, processing by a mapping engine, a translation metric to adjust a function of a specific setting associated with the profile of the user, such that incompatibility of the specific setting is made compatible for said vehicle type, and said specific setting is one that is transferred and enabled on the vehicle.

23. (**New**) A cloud services system including a server for interfacing with one or more vehicles, comprising:

the server receives a request from electronics of a vehicle to access a profile for a user account, the request includes an identifier for a user to use the vehicle;

the server processes data related to the identifier to verify the user for accessing the profile associated with the user account, the profile having a plurality of settings of the user desired for the vehicle, wherein at least part of the plurality of settings for the profile being stored on storage accessible to the cloud services system; and

the server performs processing to determine incompatibility of one or more of the plurality of settings of the user based on a type of the vehicle, and the server transfers one or more settings of the plurality of settings to storage of the vehicle, the transferring is configured to instruct software and/or hardware associated with said electronics of the vehicle to apply said one or more settings to the vehicle for customizing said vehicle to use said one or more settings associated with the profile,

wherein the vehicle uses wireless communication for exchanging data with the cloud services system and for receiving said one or more settings associated with the profile;

wherein the request is automatically generated by the electronics of the vehicle upon pairing a user device of the user with the electronics of the vehicle;

wherein the server is one or more servers of the cloud services system, the cloud services system is part of one or more data centers used for receiving and sending data to from and to said one more vehicles.

24. (**New**) The system of claim 23, wherein the processing by the server includes use of a translation metric to transfer settings between functions of one vehicle to another vehicle, such that an incompatible setting is made compatible for said vehicle type.

25. (**New**) The system of claim 23, wherein the profile of the user is transferrable to one or more other vehicles from the cloud services system.

26. (**New**) The system of claim 23, wherein the vehicle is configured to use the one or more settings for the vehicle while the profile is active in the vehicle, and either said one or more settings are removed when the user is no longer using the vehicle or remain active in the vehicle until deactivated.

27. (**New**) The system of claim 23, further comprising,

receiving, by the server, communication from the vehicle regarding inputs made to systems of the vehicle during use of the vehicle while the vehicle is associated with the profile of the user account;

determining, by the server, based on the inputs made to systems of the vehicle that at least one of the plurality of settings of the profile is to be updated.

28. (**New**) The system of claim 27, further comprising,

processing by a learning engine that uses the inputs made to the systems of the vehicle to find patterns in use of the systems of the vehicle while the profile was used with the vehicle.

29. (**New**) The system of claim 28, further comprising,

the server sends a recommended setting to the user account, the recommended setting is based on processing by the learning engine and said recommended setting is applied to the vehicle when the vehicle is used with the profile or is applied to the vehicle upon receiving acceptance of the recommended setting via the user account.

REMARKS

This paper is responsive to the Office action of August 19, 2024. The due date for response extends to February 19, 2025, with a three-month extension. Reconsideration is respectfully requested.

Rejection under 35 USC 112

Claims 17-20 were rejected under 35 USC 112, first paragraph. The Examiner indicated that the term "user information," as used in claim 17 was not described in the application as-filed. The user information, as recited in the claims, is described and supported by the application as-filed. By way of example, user information can include the user's name, password, or other identifiers which assist when logging in a user into a cloud service and/or saved profiles. See, e.g., ¶57 The user information may also encompass "…using biometrics, login credentials, image detection of the face, fingerprint detection, retina scans, etc. In some embodiments, biometrics can include data used to identify the user, such as face recognition, fingerprint reading, retina scans, voice detection, or combinations thereof." ¶71. Other examples of user information are broadly described throughout the specification, for example and without limitation, in paragraphs ¶24, ¶27, ¶28, ¶85, ¶99, ¶133, ¶135, ¶140, ¶198.

The Applicant respectfully requests the Examiner to withdraw this Section 112 rejection.

Rejection under 35 USC 102

Claims 17-20 were rejected under Section 102(a)/102(b) as anticipated by Evans US 2009/0144622A1. This rejection is respectfully traversed.

Evans teaches a touch-screen display 14 that is connectable to a port 18 of a vehicle interior 10. The vehicle computer system 12 communicates with a radio-frequency identification (RFID) reader 20 to configure and display RFID system settings. ¶19. The settings that vehicle computer system 12 sets are those "…settings associated with one or more RFID tags." ¶23. "RFID reader 20 communicates with one or more RFID tags. For example, RFID reader 20 may communicate with an RFID tag in a personal item of the user." ¶28. In paragraph ¶29, Evans teaches that "[f]or example, on-board computer system 12 may automatically access a profile associated with the RFID tag."

The Examiner points to ¶29 of Evans, e.g., Fig. 14, as teaching a server receiving a request from a vehicle to access a profile for a user account. The cited portions of Evans do not teach this functionality. Instead, Evans teaches that the "[o]n board vehicle computer 12 automatically receives data from an RFID tag in a personal item of the user to identify the user at step 904." Based on the RFID tag detected in the vehicle, i.e., using RFID reader 20, the settings associated with the RFID tag are determined. The "…on-board computer system 12 automatically implements one or more of the preferences of the user." ¶63. Consequently, there is no server that receives a request from a vehicle to access a profile of a user account. The local computer 12 just automatically implements the settings if the RFID reader 20 finds one or more RFID tags. In fact, there is no access verification by the server. If the RFID tag is present, the settings are automatically implemented.

The Examiner also points to ¶39 of Evans, to teach the verification of the user information. In ¶39, Evans teaches the use of memory for on-board manager 40 (shown in Fig. 3 of Evans). There is no teaching regarding a verification step 904. Step 904, labeled "Receive RFID data" says nothing about verification. Simply presence of the RFID tag and detection by the scanner causes the implementation of user preferences in step 908.

The Examiner points to the sole mention of "a server" in ¶42 of Evans. However, in the context of ¶42, the mention of server is to provide examples of memory storage, whereby a server is a type of "network storage." There is no teaching that the server is involved or included, to teach the recited features of the claims that involve actions by the server. As claimed, the server may be the same server or different servers, which may execute different operations to enable the server functionality recited in the claims.

In addition to the missing features in Evans, the Applicant provided additional clarifying amendments reciting, among other things, "…a server for transferring, upon verification of the user information and based on determining settings compatible for said vehicle type, one or more settings of the plurality of settings to the vehicle…." Support for this feature is found in the as-filed specification, and by way of example, paragraphs ¶7, ¶77, ¶142. New claims 21 and 22, depend from amended claim 17.

Claim 21 further recites that "…wherein said server determining settings compatible for said vehicle type includes processing by a mapping engine to determine information associated with the vehicle type to identify settings from said

profile that are incompatible with the vehicle type. Support for this feature is found in the as-filed specification, and by way of example, paragraphs ¶110-¶113, ¶142, ¶178. Claim 22 further recites "…further comprising, processing by a mapping engine, a translation metric to adjust a function of a specific setting associated with the profile of the user, such that incompatibility of the specific setting is made compatible for said vehicle type, and said specific setting is one that is transferred and enabled on the vehicle." Support for this feature is found in the as-filed specification, and by way of example, paragraphs ¶110-¶113, ¶142, ¶178.

New independent claim 23 is believed to fall within the elected invention. Claim 23 includes similar limitations as in claim 17, including other limitations directed to specific embodiments. For example, claim 23 recites "…wherein the request is automatically generated by the electronics of the vehicle upon pairing a user device of the user with the electronics of the vehicle; wherein the server is one or more servers of the cloud services system, the cloud services system is part of one or more data centers used for receiving and sending data to from and to said one more vehicles." It is respectfully submitted that new independent claim 23 is patentable over the teachings of Evans, for at least the reasons provided above with regard to claim 17. Dependent claims 24-29 are submitted patentable over the teachings of Evans for at least being dependent from claim 23, which is believed patentable.

Consideration of prior art

The Examiner is thanked for his careful review of all the prior art that has been made of record.

Disclosure of Related Proceedings

The Office is hereby made aware that the present application is a continuation application and claims priority to three related applications that are currently involved in litigation and proceedings before the Paten Trail and Appeal Board (PTAB). In accordance with the undersigned's duty of disclosure under 37 CFR 1.56, the following information is presented to the Office. Emerging Automotive, LLC is the assignee of the present application and assignee of the related patents to the present application.

The patents related to the present application include U.S. Pat. Nos. 9,171,268 and 11,396,244. Litigation is in the U.S. District Court for the Easter

District of Texas, Marshall Division, Emerging Automotive LLC v. Kia Corporation, et al., and Emerging Automotive v. Toyota Motor Corp., et al., Civil Action No. 2:23-cv-0437-JRG and Civil Action No. 2:23-cv-0434-JRG, respectively.

Inter Partes Review (IPR) (IPR2024-00786) was filed for U.S. Pat. No. 9,171,268, and is ***pending***.

Inter Partes Review (IPR) (IPR2024-00814) was filed for U.S. Pat. No. 11,396,244, and is ***pending***.

Information Disclosure Statements

An information disclosure statements was filed on November 21, 2024. The information disclosure statement includes reference presented by defendants in the litigation and references cited in the IPRs, including other references that have already been considered in the patents related to this application and are disclosed to comply with Applicant's duty of disclosure. The Examiner is thanked for his review of the cited information.

Non-statutory Double Patenting Rejection

Claims 17-20 were rejected on the ground of non-statutory double patenting over claims 1-20 of U.S. Patent No. 9,229,905. A terminal disclaimer is filed with this response to obviate this rejection.

A Notice of Allowance is respectfully requested.

If the Examiner has any questions concerning the present amendment, the Examiner is kindly requested to contact the undersigned at (408) 749-6903. If any other fees are due in connection with filing this amendment, the Commissioner is also authorized to charge Deposit Account No. 50-0805 (Order No VOLTP018.5.1.C4).

Respectfully submitted,
PENILLA IP, APC

/Albert Penilla/

Albert S. Penilla, Esq.
Reg. No. 39,487

5619 Scotts Valley Drive, Suite 280
Scotts Valley, CA 95066
Telephone: (408) 749-6903

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/873,096	Filing Date 07/25/2022	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $240 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	02/10/2025	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 13	Minus	** 20	= 0		x $80 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $240 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	SLIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/VIKKI GRAY/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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NOTICE OF ALLOWANCE AND FEE(S) DUE

25920 7590 02/26/2025

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066

EXAMINER	
BRUSHABER, FREDERICK M	
ART UNIT	PAPER NUMBER
3665	

DATE MAILED: 02/26/2025

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,096	07/25/2022	Angel A. Penilla	VOLTP018.5.1.C4	1006

TITLE OF INVENTION: SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$516	$0.00	$0.00	$516	05/27/2025

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

25920 7590 02/26/2025
PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

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17/873,096	07/25/2022	Angel A. Penilla	VOLTP018.5.1.C4	1006

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nonprovisional	SMALL	$516	$0.00	$0.00	$516	05/27/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
BRUSHABER, FREDERICK M	3665	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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www.uspto.gov

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/ owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 17/873,096	Applicant(s) Penilla et al.	
	Examiner FREDERICK M BRUSHABER	Art Unit 3665	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to CLAIMS REMARTKS FILED 2/10/2025.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 17-29 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/FREDERICK M BRUSHABER/
Primary Examiner, Art Unit 3665

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Allowable Subject Matter

Claims 17-29 are pending and allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claims 17 and 23 and all of the prior art of record fails to teach or suggest the limitation of claim 17, a cloud-based system including one or more data centers, and each data center of the cloud-based system includes one or more servers, wherein some of said one or more servers have program instructions for enabling connections with vehicles and providing services to vehicles, wherein one service includes enabling access to settings associated with profiles of user accounts of the cloud-based system, comprising: a server for receiving a request from a vehicle to access a profile for a user account, the request identifies user information related to a user; a server for processing at least part of the user information to verify the access, the profile having a plurality of settings of the user preferred for the vehicle having a vehicle type, at least part of the plurality of settings of the profile being stored on storage accessible to said one or more servers; and a server for transferring, upon verification of the user information and based on determining settings that are compatible, by said server, for said vehicle type, one or more settings of the plurality of settings to the vehicle, the transferring is configured to instruct software and hardware associated the vehicle to enable said one or more settings on the vehicle for customizing said vehicle for the user, the request and the transferring being via wireless communication of said vehicle. The combination taken with the claims not listed limitations may be patentable emphasizing the underlined limitation.

The closest prior art US 20090144622 A1 discloses in one embodiment, an apparatus includes a touch-screen display. The apparatus includes first logic for generating a virtual assistant for presentation to a user via the touch-screen display. The virtual assistant has one or more anthropomorphic

characteristics and interacts with the user via at least the touch-screen display to facilitate user access to one or more vehicle features. The apparatus includes second logic for automatically receiving data from a radio-frequency identification (RFID) tag in a personal item of the user to identify the user, automatically accessing a profile associated with the RFID tag, and automatically initiating implementation of one or more of preferences of the user indicated by a profile associated with the RFID tag. The apparatus includes a vehicle interface for coupling the apparatus to any one of multiple vehicles and communicating data between the first or second logic and the vehicle.

All dependent claims are allowable for at least the reasons of claim 17 and/or 23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquire

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FREDERICK M BRUSHABER whose telephone number is (313)446-4839. The examiner can normally be reached Monday-Friday 8am-5pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hunter Lonsberry can be reached on (571) 272-7298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit

https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/FREDERICK M BRUSHABER/
Primary Examiner, Art Unit 3665

Notice of References Cited	Application/Control No. 17/873,096	Applicant(s)/Patent Under Reexamination Penilla et al.	
	Examiner FREDERICK M BRUSHABER	Art Unit 3665	Page 1 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-9684911-B2	2017-06-20	Audet; Mathieu	G06Q30/0645	1/1
*	B	US-10699323-B1	2020-06-30	Tang; Qiaochu	G06T19/006	1/1
*	C	US-9373149-B2	2016-06-21	Abhyanker; Raj	G06Q10/10	1/1
*	D	US-9372607-B1	2016-06-21	Penilla; Angel A.	G06F3/04883	1/1
*	E	US-9229905-B1	2016-01-05	Penilla; Angel A.	G06Q20/18	1/1
*	F	US-20140310788-A1	2014-10-16	Ricci; Christopher P.	H04W4/12	726/6
*	G	US-9171268-B1	2015-10-27	Penilla; Angel A.	B60L1/06	1/1
*	H	US-9139091-B1	2015-09-22	Penilla; Angel A.	B60L1/02	1/1
*	I	US-9104537-B1	2015-08-11	Penilla; Angel A.	G06Q10/20	1/1
*	J	US-20150304406-A1	2015-10-22	Penilla; Angel A.	G06Q30/0643	709/203
*	K	US-20150210287-A1	2015-07-30	Penilla; Angel A.	B60N2/0024	701/49
*	L	US-20150203125-A1	2015-07-23	Penilla; Angel A.	G07C5/0808	701/1
*	M	US-20140309862-A1	2014-10-16	Ricci; Christopher P.	B60W50/08	701/36

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

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*	A	US-20140310031-A1	2014-10-16	Ricci; Christopher P.	G06Q30/0633	705/5
*	B	US-8768313-B2	2014-07-01	Rodriguez; Tony F.	H04N1/00331	455/414.1
*	C	US-8463488-B1	2013-06-11	Hart; Paul	G07C5/008	701/32.4
*	D	US-20130090781-A1	2013-04-11	Gellatly; Andrew W.	B60R25/25	701/2
*	E	US-8209436-B2	2012-06-26	Esteve Asensio; Guillermo	G06F9/4451	709/250
*	F	US-8050815-B2	2011-11-01	Perry; Jeffrey W.	B60R25/241	340/425.5
*	G	US-20120087634-A1	2012-04-12	Lalwaney; Poornima	H04L65/1093	386/E5.003
*	H	US-20110060480-A1	2011-03-10	Mottla; Lesley	G07C9/00571	701/2
*	I	US-20090204316-A1	2009-08-13	Klampfl; Erica	G01C21/3679	701/410
*	J	US-20090150167-A1	2009-06-11	Patenaude; Russell A.	G06Q99/00	705/345
*	K	US-20090144622-A1	2009-06-04	Evans; David K.	G06F3/04886	715/706
*	L	US-20070207789-A1	2007-09-06	Zellner; Samuel N.	H04M3/4931	455/415
*	M	US-7006986-B1	2006-02-28	Sines; Randy D.	G06Q30/0613	705/26.81

FOREIGN PATENT DOCUMENTS

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	Examiner FREDERICK M BRUSHABER	Art Unit 3665	Page 3 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-6155954-A	2000-12-05	Itoyama; Hiroyuki	B60L50/61	903/905
*	B	US-6064996-A	2000-05-16	Yamaguchi; Masashi	F02D41/1401	706/20
	C					
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FOREIGN PATENT DOCUMENTS

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	N					
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	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,096	Penilla et al.
	Examiner	**Art Unit**
	FREDERICK M BRUSHABER	3665

CPC								
Symbol							**Type**	**Version**
B60L	/	53	/	665			F	2019-02-01
G06F	/	17	/	00			I	2013-01-01
G06Q	/	20	/	325			I	2013-01-01
H04W	/	4	/	029			I	2018-02-01
G06Q	/	10	/	20			I	2013-01-01
G06Q	/	20	/	18			I	2013-01-01
G06Q	/	30	/	00			I	2013-01-01
G06Q	/	30	/	0643			I	2013-01-01
G06Q	/	30	/	0645			I	2013-01-01
G06Q	/	50	/	06			I	2013-01-01
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B60W	/	40	/	08			I	2013-01-01
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B60L	/	2240	/	70			A	2013-01-01
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Y02T	/	90	/	167			A	2013-01-01
B60W	/	2040	/	0809			A	2013-01-01

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	13	
/FREDERICK M BRUSHABER/ Primary Examiner, Art Unit 3665	19 February 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7

U.S. Patent and Trademark Office — Part of Paper No.: 20250219

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,096	Penilla et al.
	Examiner	**Art Unit**
	FREDERICK M BRUSHABER	3665

CPC Combination Sets					
Symbol		**Type**	**Set**	**Ranking**	**Version**
	/ /				

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	13	
/FREDERICK M BRUSHABER/ Primary Examiner, Art Unit 3665	19 February 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7

U.S. Patent and Trademark Office — Part of Paper No.: 20250219

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	17/873,096	Penilla et al.
	Examiner	Art Unit
	FREDERICK M BRUSHABER	3665

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B60L	/	53	/	66
B60L	/	53	/	68
B60L	/	53	/	68
G06F	/	17	/	00
H04L	/	67	/	06
H04L	/	67	/	10
H04L	/	67	/	306

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	13	
/FREDERICK M BRUSHABER/ Primary Examiner, Art Unit 3665	19 February 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7

U.S. Patent and Trademark Office

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	17/873,096	Penilla et al.
	Examiner	**Art Unit**
	FREDERICK M BRUSHABER	3665

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☑ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	13	
/FREDERICK M BRUSHABER/ Primary Examiner, Art Unit 3665	19 February 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7

U.S. Patent and Trademark Office Part of Paper No.: 20250219

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,096	Penilla et al.
	Examiner	Art Unit
	FREDERICK M BRUSHABER	3665

CPC - Searched*		
Symbol	Date	Examiner
B60L53/665 or B60L53/68 or B60W40/08 or G06F17/00 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q20/325 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or H04L67/06 or H04L67/10 or H04L67/306 or H04W4/02 or H04W4/029 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T10/70 or Y02T10/7072 or Y02T10/72 or Y02T90/12 or Y02T90/14 or Y02T90/16 or Y02T90/167 or Y04S30/14 or B60L53/67 or B60L2240/68 or B60L2240/72 or B60L2240/80 or B60W40/09 or B60W2540/043 or B60W2556/10 or G06Q20/145 or G06Q20/308 or G08G1/205 or H04L63/0861 or H04W4/80 or H04W12/06 or H04W12/50	08/14/2024	FB

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
IP.com see attached search history	08/14/2024	FB
SEARCH see attached search history	08/14/2024	FB
IP.com see attached search history	02/19/2025	FB
SEARCH see attached search history	02/19/2025	FB

/FREDERICK M BRUSHABER/ Primary Examiner, Art Unit 3665	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,096	Penilla et al.
	Examiner	Art Unit
	FREDERICK M BRUSHABER	3665

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
Keyword SEARCH		08/14/2024	FB

/FREDERICK M BRUSHABER/ Primary Examiner, Art Unit 3665	

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	159	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/09/28 05:23 PM
L2	89	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 05:40 PM
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L6	143	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 05:54 PM
L7	26	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 05:54 PM
L8	16953	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 05:58 PM
L9	39	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 06:02 PM
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L14	9	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:04 PM
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L16	89	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:05 PM
L17	64	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:07 PM
L18	38	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:07 PM
L19	9	(vehicle near10	(US-PGPUB; USPAT;	OR	ON	ON	2019/09/28

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		"9171268" | "9229905" | "9372607").URPN.					
L22	342	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:26 PM
L23	0	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2019/09/28 07:27 PM
L27	10	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L28	166	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2020/01/06 04:08 PM
L29	591502	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM

		Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L30	180547	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L31	96	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L32	42	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L33	68	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L34	10	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/01/06 04:08 PM
L36	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/07/01 06:40 PM
L37	211	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2021/07/01 06:41 PM

		("Albert"))).INV.					
L38	111	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2021/07/01 07:08 PM
L39	108471	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2021/07/01 07:10 PM
L40	186	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2021/07/01 07:27 PM
L41	7	L40 and L37	(USPAT)	OR	ON	ON	2021/07/01 07:29 PM
L42	86	L40 and L39	(USPAT)	OR	ON	ON	2021/07/01 07:29 PM
L43	33	((transfer$4 sending sent receiv$4 transc$4) same (user driver)	(USPAT)	OR	ON	ON	2021/07/01 07:31 PM

		near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L44	98	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2021/07/01 07:32 PM
L45	8799	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:35 PM
L46	617	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:40 PM

L47	911	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:41 PM
L48	911	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:41 PM
L49	34600	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:49 PM
L50	37948	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:49 PM

		volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L51	55697	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:51 PM
L52	10733	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:59 PM
L53	46983	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 07:59 PM
L54	735	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:05 PM
L55	12	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:05 PM
L56	1072	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:07 PM

		AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L57	4775	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:08 PM
L58	5602	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:13 PM
L59	634	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:19 PM
L60	100	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:19 PM
L61	1875	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:25 PM

		near3 (verify verification identifier)					
L62	154	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:25 PM
L63	55	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:28 PM
L64	303	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:30 PM
L65	426	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:32 PM

L66	46	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 08:34 PM
L67	1865	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 09:31 PM
L68	1360	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 09:31 PM

		reclin$4))					
L69	134	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 09:53 PM
L70	97	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 09:55 PM
L71	228	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 10:08 PM
L72	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 10:15 PM

		reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L73	324	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/07/01 10:16 PM
L74	2407	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/01 11:10 PM

		"20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" |				

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		"20050177385" | "20050187823" | "20050192859" | "20050192912" | "20050192999" | "20050193410" | "20050197775" | "20050197846" | "20050197950" | "20050198020" | "20050198031" | "20050198305" | "20050203768" | "20050203769" | "20050203807" | "20050209776" | "20050209781" | "20050216186" | "20050216300" | "20050216550" | "20050219044" | "20050225429" | "20050231119" | "20050235062" | "20050240580" | "20050251331" | "20050256756" | "20050259648" | "20050261815" | "20050270299" | "20050273346" | "20050283497" | "20050288957" | "20050288958" | "20050289650" | "20060001523" | "20060004680" | "20060004703" | "20060004734" | "20060022048" | "20060023881" | "20060025883" | "20060026147" | "20060026587" | "20060031684" | "20060036588" | "20060036748" | "20060041543" | "20060042483" | "20060047584" | "20060047825" | "20060048059" | "20060052091" | "20060058921" | "20060058952" | "20060059023" | "20060059260" | "20060064431"				

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L75	215	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2021/11/15 06:31 PM
L76	153	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L77	772490	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L78	170679	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L79	81	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L80	187	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L81	32	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L82	43578	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L83	52	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

L84	13	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L85	31	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L86	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/15 06:31 PM
L87	88	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L88	13	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L89	88	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L90	153	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		account) and (profile account) with vehicle with (settings preferences)					
L91	81	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L92	49	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L93	13	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L94	1616	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/15 06:31 PM

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L96	439	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L97	1	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L98	13	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L99	215	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2021/11/15 06:31 PM
L100	772490	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L101	170679	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L102	153	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L103	49	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L104	81	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L105	13	(vehicle near10 (biometric face fingerprint voice)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2021/11/15 06:31 PM

		near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	IBM_TDB)				
L106	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/15 06:31 PM
L107	215	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2021/11/15 06:31 PM
L108	120	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L109	112970	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L110	181	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L111	7	L40 and L37	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L112	85	L40 and L39	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L113	29	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L114	83	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2021/11/15 06:31 PM
L115	8368	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L116	629	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2021/11/15 06:31 PM

		customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	IBM_TDB)				
L117	804	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L118	804	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L119	33844	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L120	37114	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L121	55289	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L122	10015	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L123	47099	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L124	1585	L52 and L39	(US-PGPUB; USPAT;	OR	ON	ON	2021/11/15

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				06:31 PM
L125	13	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L126	927	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L127	4809	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L128	5528	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L129	1618	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L130	103	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

L131	1794	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L132	166	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L133	49	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L134	729	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L135	431	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		(transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L136	51	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L137	1853	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L138	1296	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L139	316	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L140	100	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L141	231	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L142	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L143	326	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:31 PM
L144	2468	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/15 06:31 PM

		"20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963"				

		"20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030204290" | "20030205619" | "20030218253" | "20030220807" | "20030220835").PN. OR ("20030222918" | "20030225632" | "20030225833" | "20030234325" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581" | "20040044454" | "20040046506" | "20040054428" | "20040054561" | "20040056762" | "20040059471" | "20040064235" | "20040078655" | "20040088177" | "20040092253" | "20040093155" | "20040098419" | "20040109012" | "20040111302" | "20040117322" | "20040122570" | "20040122693"				

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		"20050114759" | "20050114783" | "20050120084" | "20050131761" | "20050137015" | "20050143174").PN. OR ("20050144065" | "20050149432" | "20050154639" | "20050159970" | "20050171799" | "20050171832" | "20050171954" | "20050171955" | "20050177385" | "20050187823" | "20050192859" | "20050192912" | "20050192999" | "20050193410" | "20050197775" | "20050197846" | "20050197950" | "20050198020" | "20050198031" | "20050198305" | "20050203768" | "20050203769" | "20050203807" | "20050209776" | "20050209781" | "20050216186" | "20050216300" | "20050216550" | "20050219044" | "20050225429" | "20050231119" | "20050235062" | "20050240580" | "20050251331" | "20050256756" | "20050259648" | "20050261815" | "20050270299" | "20050273346" | "20050283497" | "20050288957" | "20050288958" | "20050289650" | "20060001523" | "20060004680" | "20060004703" | "20060004734" | "20060022048" | "20060023881" | "20060025883" | "20060026147" | "20060026587"				

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L145	2878	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:42 PM
L146	1535	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:44 PM

		(restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L147	80	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:45 PM
L148	9	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:45 PM
L149	80	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:49 PM
L150	62	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:49 PM

		(restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)					
L151	1001062	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:50 PM
L152	35	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/11/15 06:51 PM
L153	219	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 09:12 PM
L154	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)					
L155	791168	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L156	177752	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		Y02T10/7044).cpc.					
L157	83	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L158	190	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L159	33	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L160	44650	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L161	54	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L162	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L163	32	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L164	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/03/09 09:12 PM
L165	90	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

L166	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L167	90	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L168	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L169	83	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L170	50	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L171	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L172	1647	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 09:12 PM

		"20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072"				

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L173	1330	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

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		"20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205"				

		"7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L174	453	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L175	1	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L176	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L177	219	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 09:12 PM
L178	791168	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L179	177752	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L180	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L181	50	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L182	83	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L183	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L184	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/03/09 09:12 PM
L185	219	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 09:12 PM
L186	130	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L187	116504	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM

		G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L188	186	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L189	7	L40 and L37	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L190	86	L40 and L39	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L191	30	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L192	86	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM

		automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L193	8621	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L194	643	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L195	838	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

L196	838	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L197	34860	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L198	38214	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L199	56925	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L200	10318	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L201	48499	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L202	1626	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L203	13	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L204	960	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L205	4973	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		(user driver customer profile) near4 (verify verification identifier)					
L206	5720	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L207	1667	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L208	106	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L209	1858	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L210	170	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		driver customer profile) near3 (verify verification identifier)).clm.					
L211	49	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L212	748	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L213	450	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L214	52	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		driver customer profile) near3 (verify verification identifier)).clm.					
L215	1951	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L216	1359	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L217	331	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L218	103	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L219	241	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L220	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L221	340	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L222	2523	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 09:12 PM

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		| "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208"					

		| "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372"				

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		"6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L223	219	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 09:12 PM
L224	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L225	791168	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

L226	177752	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L227	83	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L228	190	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L229	33	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L230	44650	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L231	54	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L232	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L233	32	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2022/03/09 09:12 PM

			JPO; DERWENT; IBM_TDB)				
L234	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/03/09 09:12 PM
L235	90	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L236	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L237	90	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L238	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L239	83	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L240	50	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

L241	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L242	1647	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 09:12 PM

		"20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570" | "20040122693" | "20040128215" | "20040135805" | "20040138790"				

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		"20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624"				

		"20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107"				

		"20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932"				

		"6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR				

		("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L244	453	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L245	1	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L246	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L247	219	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 09:12 PM
L248	791168	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L249	177752	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L250	163	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L251	50	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L252	83	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L253	14	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L254	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/03/09 09:12 PM
L255	219	((("PENILLA") near3 ("Angel")) OR	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2022/03/09 09:12 PM

		(("PENILLA") near3 ("Albert"))).INV.	DERWENT)				
L256	130	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L257	116504	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L258	186	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L259	7	L40 and L37	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L260	86	L40 and L39	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L261	30	((transfer$4 sending sent receiv$4 transc$4)	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM

		same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L262	86	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2022/03/09 09:12 PM
L263	8621	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L264	643	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		(position setting))					
L265	838	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L266	838	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L267	34860	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L268	38214	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L269	56925	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L270	10318	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L271	48499	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L272	1626	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L273	13	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L274	960	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L275	4973	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L276	5720	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L277	1667	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L278	106	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L279	1858	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L280	170	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L281	49	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L282	748	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L283	450	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		near3 (verify verification identifier)					
L284	52	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L285	1951	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L286	1359	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		volume (seat chair) near2 (position setting reclin$4))					
L287	331	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L288	103	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L289	241	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L290	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM

		volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L291	340	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L292	2523	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 09:12 PM

		"20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277"				

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		| "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139"					

		| "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687"					

		| "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943"				

		| "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846"				

		| "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L293	2964	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L294	1587	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L295	84	(user driver customer) near3 (profile (user driver) near2(setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2022/03/09 09:12 PM

		preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	IBM_TDB)				
L296	11	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L297	84	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L298	66	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L299	1028754	(B60L53/665 OR	(US-PGPUB; USPAT;	OR	ON	ON	2022/03/09

		B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:12 PM
L300	35	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:12 PM
L301	22	((US-20140309862-A1 OR US-20120087634-A1 OR US-20140310031-A1 OR US-20150203125-A1 OR US-20140310788-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((EP-908339-A1 OR US-20140310788-A1).did. AND DWPI.dbnm.) OR ((US-6155954-A OR US-8768313-B2 OR US-8463488-B1 OR US-8209436-B2 OR US-9684911-B2 OR US-9229905-B1 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/09 09:19 PM

		US-9373149-B2 OR US-7006986-B1 OR US-9372607-B1 OR US-9171268-B1 OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.)					
L302	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L303	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L304	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L305	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L306	97	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L307	222	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L308	40	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L309	53016	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L310	62	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L311	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L312	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/04/05 02:05 PM

			JPO; DERWENT; IBM_TDB)				
L313	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L314	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L315	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L316	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L317	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L318	97	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L319	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L320	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L321	1789	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

		"20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570" | "20040122693" | "20040128215" | "20040135805" | "20040138790"				

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L322	1437	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		"20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624"				

		"20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107"				

		"20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932"				

		"6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR				

		("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L323	482	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L324	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L325	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L326	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L327	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L328	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L329	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L330	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L331	97	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L332	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L333	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L334	262	((("PENILLA") near3 ("Angel")) OR	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2024/04/05 02:05 PM

		(("PENILLA") near3 ("Albert"))).INV.	DERWENT)				
L335	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L336	139719	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L337	222	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L338	9	L40 and L37	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L339	100	L40 and L39	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L340	34	((transfer$4 sending sent receiv$4 transc$4)	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM

		same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L341	106	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L342	10390	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L343	758	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		(position setting))					
L344	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L345	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L346	42106	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L347	45994	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L348	68888	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L349	12453	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L350	58718	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L351	1919	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L352	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L353	1140	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L354	6159	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L355	7051	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L356	2073	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L357	127	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L358	2253	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L359	209	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L360	70	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L361	901	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L362	564	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		near3 (verify verification identifier)					
L363	57	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L364	2652	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L365	1759	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		volume (seat chair) near2 (position setting reclin$4))					
L366	413	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L367	124	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L368	323	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L369	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L370	451	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L371	2787	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

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		"20140136328" | "20140136414" | "20140136624" | "20140142783" | "20140142848" | "20140143061" | "20140149244" | "20140149508" | "20140163771" | "20140163774" | "20140164126" | "20140164559" | "20140165091" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742" | "20140203077" | "20140204360" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140222298" | "20140222908" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140254896" | "20140277834" | "20140277936" | "20140278089" | "20140300739" | "20140316243" | "20140337160" | "2035218" | "3253806" | "3556438" | "3690397" | "3762669" | "3799063" | "3867682").PN. OR ("4052655" | "4102273" | "4119163" | "4132174" | "4161843" | "4162445" | "4309644" | "4347472" | "4375354" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4556198" | "4779203" | "4789047" | "4815840" | "4914605" | "4996468" | "5006988" | "5032989" | "5049802" | "5050844" | "5121112" | "5132666" | "5184058" | "5199686" | "5202617" | "5208750" | "5297664" | "5306999" | "5315227"					

		| "5325294" | "5327066" | "5343970" | "5372211" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5521817" | "5548200" | "5549443" | "5555502" | "5563491" | "5572449" | "5577567" | "5581630" | "5584025" | "5585205" | "5590062" | "5594318" | "5595271" | "5596258" | "5612606" | "5617319" | "5627752" | "5630103" | "5636145" | "5642270" | "5666102" | "5671342" | "5691695" | "5694019" | "5701706" | "5720363" | "5736833" | "5751245" | "5760569" | "5774133" | "5778326" | "5790976" | "5793028" | "5794207" | "5805719" | "5805810" | "5819269" | "5826244" | "5826245" | "5831664" | "5835896" | "5838812" | "5852810" | "5870723" | "5883810" | "5892598" | "5903721" | "5904214" | "5905499" | "5907322" | "5916285" | "5917407" | "5926765" | "5930474" | "5937413" | "5940806" | "5974136" | "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931"					

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		| "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687"					

		| "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943"				

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L372	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L373	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L374	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L375	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L376	97	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L377	222	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L378	40	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L379	53016	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L380	62	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/04/05 02:05 PM

			JPO; DERWENT; IBM_TDB)				
L381	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L382	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L383	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L384	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L385	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L386	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L387	211	vehicle with (biometric face fingerprint voice) with (profile account)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/04/05 02:05 PM

		and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	IBM_TDB)				
L388	97	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L389	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L390	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L391	1789	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

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L392	1437	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		"20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809"				

		"20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" |				

		"20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443"				

		"5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255"				

		| "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L393	482	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L394	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L395	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L396	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L397	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L398	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L399	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L400	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L401	97	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L402	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L403	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L404	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L405	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L406	139719	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L407	222	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM

		identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L408	9	L40 and L37	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L409	100	L40 and L39	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L410	34	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L411	106	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L412	10390	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L413	758	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L414	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L415	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L416	42106	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L417	45994	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L418	68888	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L419	12453	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L420	58718	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		profile) near4 (verify verification identifier)					
L421	1919	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L422	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L423	1140	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L424	6159	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L425	7051	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L426	2073	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L427	127	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L428	2253	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L429	209	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L430	70	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L431	901	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L432	564	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L433	57	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L434	2652	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L435	1759	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2024/04/05

		automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:05 PM
L436	413	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L437	124	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L438	323	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L439	5	((vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2024/04/05

		automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:05 PM
L440	451	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L441	2787	("20010005829" | "20010016795" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

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		| "4119163" | "4132174" | "4161843" | "4162445" | "4309644" | "4347472" | "4375354" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4556198" | "4779203" | "4789047" | "4815840" | "4914605" | "4996468" | "5006988" | "5032989" | "5049802" | "5050844" | "5121112" | "5132666" | "5184058" | "5199686" | "5202617" | "5208750" | "5297664" | "5306999" | "5315227" | "5325294" | "5327066" | "5343970" | "5372211" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5521817" | "5548200" | "5549443" | "5555502" | "5563491" | "5572449" | "5577567" | "5581630" | "5584025" | "5585205" | "5590062" | "5594318" | "5595271" | "5596258" | "5612606" | "5617319" | "5627752" | "5630103" | "5636145" | "5642270" | "5666102" | "5671342" | "5691695" | "5694019" | "5701706" | "5720363" | "5736833" | "5751245" | "5760569" | "5774133" | "5778326" | "5790976" | "5793028" | "5794207" | "5805719" | "5805810" | "5819269" | "5826244" | "5826245" | "5831664" | "5835896" | "5838812" | "5852810" | "5870723" | "5883810" | "5892598" | "5903721" | "5904214" | "5905499" | "5907322" | "5916285" | "5917407" | "5926765" | "5930474" | "5937413" | "5940806" | "5974136" | "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842"				

		| "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407"				

		| "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524"				

		| "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048"					

		| "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741"					

		| "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.				
L442	3627	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L443	1898	(vehicle truck car automobile) AND (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/04/05 02:05 PM

		driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	JPO; DERWENT; IBM_TDB)				
L444	111	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L445	14	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L446	107	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L447	83	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L448	1273993	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L449	45	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L450	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM

L451	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L452	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L453	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L454	97	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L455	222	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L456	40	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L457	53016	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L458	62	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L459	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L460	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L461	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L462	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		account) and (profile account) near10 vehicle near10 (settings preferences)					
L463	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L464	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L465	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L466	97	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L467	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L468	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L469	1789	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

		"20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570" | "20040122693" | "20040128215" | "20040135805" | "20040138790" | "20040139034" | "20040139049" | "20040145593" | "20040146199" | "20040148275" | "20040148354" | "20040153466" | "20040157648" | "20040158371" | "20040158373" | "20040158488" | "20040162064"				

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L470	1437	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		"20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" |				

		"20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" |				

		"20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN.				

		OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" |					

		"6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L471	482	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L472	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L473	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L474	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L475	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L476	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L477	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L478	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L479	97	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L480	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L481	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L482	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L483	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L484	139719	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM

		G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L485	222	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L486	9	L40 and L37	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L487	100	L40 and L39	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L488	34	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L489	106	((transfer$4 sending	(USPAT)	OR	ON	ON	2024/04/05

		sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					02:05 PM
L490	10390	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L491	758	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L492	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		(position setting)) and (user driver customer profile) near4 (verify verification identifier)					
L493	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L494	42106	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L495	45994	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L496	68888	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L497	12453	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L498	58718	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L499	1919	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L500	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L501	1140	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L502	6159	(vehicle truck car automobile) same2	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/04/05 02:05 PM

		(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	JPO; DERWENT; IBM_TDB)				
L503	7051	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L504	2073	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L505	127	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L506	2253	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L507	209	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.					
L508	70	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L509	901	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L510	564	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L511	57	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.					
L512	2652	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L513	1759	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L514	413	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L515	124	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L516	323	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L517	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L518	451	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2024/04/05

		automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:05 PM
L519	2787	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

		"20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192"				

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		| "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" |				

		"2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L520	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L521	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L522	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L523	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L524	97	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L525	222	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L526	40	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L527	53016	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L528	62	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L529	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		near10 (settings preferences)).clm.					
L530	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L531	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/04/05 02:05 PM
L532	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L533	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L534	101	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L535	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L536	97	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

L537	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L538	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L539	1789	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

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		"20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300"				

		"20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107"				

		"20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397"	"3799063" | "3867682"	"4052655" | "4102273"	"4132174" | "4162445"	"4309644" | "4347472"	"4383210" | "4389608"	"4405891" | "4433278"	"4450400" | "4532418"	"4789047" | "4815840"	"5049802" | "5121112"	"5132666" | "5184058"	"5202617" | "5297664"	"5306999" | "5315227"	"5327066" | "5343970"	"5422624" | "5434781"	"5441122" | "5449995"	"5487002" | "5488283"	"5492190" | "5548200"	"5549443" | "5555502"	"5563491" | "5585205"	"5594318" | "5595271"	"5596258" | "5612606"	"5627752" | "5636145"	"5642270" | "5666102"	"5691695" | "5694019"	"5701706" | "5736833"	"5760569" | "5778326"	"5790976" | "5892598"	"5916285" | "5974136"	"5998963" | "6014597"	"6049745"				

		"6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037"					

		| "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L541	482	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L542	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L543	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L544	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L545	974440	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L546	211376	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L547	211	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L548	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L549	97	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L550	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L551	1	("20110060480").PN.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/04/05

			USOCR)				02:05 PM
L552	262	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/04/05 02:05 PM
L553	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L554	139719	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L555	222	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L556	9	L40 and L37	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L557	100	L40 and L39	(USPAT)	OR	ON	ON	2024/04/05

							02:05 PM
L558	34	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L559	106	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/04/05 02:05 PM
L560	10390	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L561	758	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L562	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L563	1029	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L564	42106	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L565	45994	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L566	68888	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L567	12453	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L568	58718	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L569	1919	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L570	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L571	1140	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2024/04/05

		automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:05 PM
L572	6159	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L573	7051	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L574	2073	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L575	127	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L576	2253	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L577	209	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L578	70	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L579	901	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L580	564	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L581	57	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L582	2652	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L583	1759	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L584	413	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L585	124	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L586	323	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L587	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L588	451	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L589	2787	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/04/05 02:05 PM

		"20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693"				

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		| "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879"					

		| "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702"				

		| "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744"					

		| "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143"				

		| "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L590	3627	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L591	1898	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		reclin$4))					
L592	111	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L593	14	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L594	107	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L595	83	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		reclin$4)) Near10 (vehicle truck car automobile)					
L596	1273993	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L597	45	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM
L598	22	((US-20140309862-A1 OR US-20120087634-A1 OR US-20140310031-A1 OR US-20150203125-A1 OR US-20140310788-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((EP-908339-A1 OR US-20140310788-A1).did. AND DWPI.dbnm.) OR ((US-6155954-A OR US-8768313-B2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/04/05 02:05 PM

		US-8463488-B1 OR US-8209436-B2 OR US-9684911-B2 OR US-9229905-B1 OR US-9373149-B2 OR US-7006986-B1 OR US-9372607-B1 OR US-9171268-B1 OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.)					
L599	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L600	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L601	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L602	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L603	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L604	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L605	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L606	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L607	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L608	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near10 (settings preferences)).clm.					
L609	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L610	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L611	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L612	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L613	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L614	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L615	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L616	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L617	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L618	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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		"20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300"				

		"20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107"				

		"20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397"	"3799063" | "3867682"	"4052655" | "4102273"	"4132174" | "4162445"	"4309644" | "4347472"	"4383210" | "4389608"	"4405891" | "4433278"	"4450400" | "4532418"	"4789047" | "4815840"	"5049802" | "5121112"	"5132666" | "5184058"	"5202617" | "5297664"	"5306999" | "5315227"	"5327066" | "5343970"	"5422624" | "5434781"	"5441122" | "5449995"	"5487002" | "5488283"	"5492190" | "5548200"	"5549443" | "5555502"	"5563491" | "5585205"	"5594318" | "5595271"	"5596258" | "5612606"	"5627752" | "5636145"	"5642270" | "5666102"	"5691695" | "5694019"	"5701706" | "5736833"	"5760569" | "5778326"	"5790976" | "5892598"	"5916285" | "5974136"	"5998963" | "6014597"	"6049745"				

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L620	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L621	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L622	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L623	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L624	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L625	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L626	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L627	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L628	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L629	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L630	1	("20110060480").PN.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/08/14

			USOCR)				11:28 AM
L631	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L632	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L633	143313	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L634	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L635	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L636	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14

							11:28 AM
L637	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L638	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L639	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L640	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L641	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L642	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L643	43299	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L644	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L645	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L646	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L647	60429	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L648	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L649	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L650	1169	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

		automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L651	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L652	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L653	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L654	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L655	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L656	216	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L657	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L658	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L659	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L660	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L661	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L662	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L663	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L664	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L665	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L666	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L667	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L668	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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		| "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702"				

		| "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744"				

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		| "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L669	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L670	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L671	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L672	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L673	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L674	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L675	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L676	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		vehicle near10 (settings preferences)).clm.					
L677	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L678	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L679	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L680	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L681	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L682	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L683	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		preferences)					
L684	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L685	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L686	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L687	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L688	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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L689	1453	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		"20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" |				

		"20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" |				

		"20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666" | "5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624"				

		"5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420"				

		| "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L690	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L691	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L692	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L693	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L694	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L695	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L696	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L697	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L698	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L699	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L700	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L701	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L702	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L703	143313	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

L704	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L705	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L706	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L707	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L708	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L709	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L710	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L711	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L712	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L713	43299	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L714	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L715	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L716	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L717	60429	(transfer$4 sending	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

		sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L718	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L719	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L720	1169	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L721	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L722	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L723	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L724	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L725	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L726	216	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L727	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L728	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L729	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L730	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L731	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		volume (seat chair) near2 (position setting reclin$4))					
L732	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L733	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L734	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L735	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		volume (seat chair) near2 (position setting reclin$4))					
L736	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L737	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near2 (position setting reclin$4))					
L738	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030204290" | "20030205619" | "20030218253" | "20030220807" | "20030220835").PN. OR ("20030222918" | "20030225632" | "20030225833" | "20030234325" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581" | "20040044454" | "20040046506" | "20040054428" | "20040054561" | "20040056762" | "20040059471" | "20040064235" | "20040078655"				

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		| "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635"				

		| "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541"				

		| "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109"				

			"7996270" | "8006793" "8010230" | "8027843" "8027943" | "8036788" "8046309" | "8050815" "8051089" | "8054048" "8060389" | "8060555" "8064590" | "8065291" "8072318" | "8073907" "8095430" | "8103391" "8103734" | "8107879" "8108501" | "8112419" "8117486" | "8136145" "8139514" | "8145661" "8145703" | "8149113" "8167234" | "8171128" "8190357" | "8190476" "8195601" | "8195744" "8204624" | "8204776" "8204952" | "8223012" "8225376" | "8229160" "8229470" | "8249943" "8256553" | "8262268" "8265816" | "8266075" "8271057").PN. OR ("8275546" | "8290943" "8292215" | "8294420" "8296373" | "8301743" "8315389" | "8326091" "8326315" | "8328130" "8333492" | "8336664" "8346677" | "8350526" "8352183" | "8358811" "8364757" | "8366371" "8370003" | "8370030" "8380382" | "8380638" "8391789" | "8391909" "8392065" | "8401771" "8402094" | "8402372" "8405347" | "8412576" "8412675" | "8422994" "8427308" | "8428565" "8433609" | "8433650" "8438156" | "8442923" "8443107" | "8447810" "8463295" | "8463764" "8473199" | "8482255" "8483775" | "8483907" "8490005" | "8493849" "8504284" | "8504512" "8508188" | "8510268" "8521599" | "8521656" "8527135" | "8527146" "8538458" | "8543143" "8543323" | "8548493" "8552686" | "8554770" "8554852" | "8560515" "8584091" | "8589019" "8589330" | "8594715"				

		| "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.				
L739	3730	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		volume (seat chair) near2 (position setting reclin$4))					
L740	1961	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L741	112	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L742	14	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L743	108	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)					
L744	84	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L745	1294444	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L746	45	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L747	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L748	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L749	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L750	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L751	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L752	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L753	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L754	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L755	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L756	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L757	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L758	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L759	104	vehicle near10 (biometric face fingerprint voice)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/08/14 11:28 AM

		near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	IBM_TDB)				
L760	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L761	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L762	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L763	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L764	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L765	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		account) near10 vehicle near10 (settings preferences)).clm.					
L766	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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L767	1453	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		"20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" |				

		"20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323"				

		"20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" |				

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		"6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.				
L768	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L769	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L770	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L771	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L772	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L773	212768	(Y02T90/121 or	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

		Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L774	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L775	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L776	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L777	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L778	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L779	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L780	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L781	143313	(B60L53/665 or H04W4/02 or H04W4/029 or	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

		B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L782	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L783	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L784	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L785	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

		air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L786	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L787	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L788	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L789	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)					
L790	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L791	43299	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L792	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		identifier)					
L793	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L794	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L795	60429	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L796	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L797	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L798	1169	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		driver customer profile) near4 (verify verification identifier)					
L799	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L800	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L801	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L802	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L803	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L804	216	((vehicle truck car automobile) and (transfer$4 sending	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/08/14 11:28 AM

		sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	IBM_TDB)				
L805	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L806	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L807	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L808	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.					
L809	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L810	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L811	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L812	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L813	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L814	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		volume (seat chair) near2 (position setting reclin$4))).clm.					
L815	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L816	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" |				

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		| "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409"					

		| "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092"					

		| "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130"				

		| "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR				

		("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L817	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L818	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L819	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L820	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L821	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L822	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L823	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L824	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L825	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L826	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L827	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L828	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L829	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L830	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L831	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L832	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L833	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L834	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L835	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L836	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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		| "8832556" | "D710454").PN. OR ("2014/0309862" | "2014/0310031" | "2014/0310788" | "7006986" | "8050815" | "9373149").URPN.					
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		"20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252"				

		"20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" |				

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		"5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328"				

		| "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L838	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L839	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L840	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L841	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L842	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L843	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L844	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L845	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L846	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L847	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		account) near10 vehicle near10 (settings preferences)).clm.					
L848	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L849	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L850	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L851	143313	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L852	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

		(position setting))					
L853	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L854	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L855	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L856	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L857	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L858	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L859	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L860	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L861	43299	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L862	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L863	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L864	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L865	60429	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L866	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L867	15	L52 and L37	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L868	1169	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L869	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L870	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L871	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L872	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L873	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L874	216	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L875	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L876	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L877	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L878	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L879	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L880	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L881	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L882	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L883	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L884	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L885	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L886	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" |				

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		"20080117928" | "20080120308" | "20080125969" | "20080126355" | "20080126411" | "20080126476" | "20080126478" | "20080133495" | "20080133649" | "20080134035" | "20080148156" | "20080154733" | "20080155008" | "20080155019" | "20080162027" | "20080162211" | "20080162260" | "20080167771" | "20080168068" | "20080168175" | "20080172173" | "20080172244" | "20080172288" | "20080180027" | "20080189292" | "20080189380" | "20080189768" | "20080195483" | "20080201156" | "20080203973" | "20080208956" | "20080208969" | "20080215758" | "20080215994" | "20080221846" | "20080221984" | "20080222140" | "20080222308" | "20080223646" | "20080228613" | "20080228719" | "20080228775" | "20080229424" | "20080231630" | "20080238941" | "20080240397" | "20080242317" | "20080243378" | "20080243598" | "20080243667" | "20080243830" | "20080244060" | "20080250025" | "20080255722" | "20080255759" | "20080256230" | "20080263460" | "20080269979" |				

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		| "4815840" | "4914605" | "4996468" | "5006988" | "5032989" | "5049802" | "5050844" | "5121112" | "5132666" | "5184058" | "5199686" | "5202617" | "5208750" | "5297664" | "5306999" | "5315227" | "5325294" | "5327066" | "5343970" | "5372211" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5521817" | "5548200" | "5549443" | "5555502" | "5563491" | "5572449" | "5577567" | "5581630" | "5584025" | "5585205" | "5590062" | "5594318" | "5595271" | "5596258" | "5612606" | "5617319" | "5627752" | "5630103" | "5636145" | "5642270" | "5666102" | "5671342" | "5691695" | "5694019" | "5701706" | "5720363" | "5736833" | "5751245" | "5760569" | "5774133" | "5778326" | "5790976" | "5793028" | "5794207" | "5805719" | "5805810" | "5819269" | "5826244" | "5826245" | "5831664" | "5835896" | "5838812" | "5852810" | "5870723" | "5883810" | "5892598" | "5903721" | "5904214" | "5905499" | "5907322" | "5916285" | "5917407" | "5926765" | "5930474" | "5937413" | "5940806" | "5974136" | "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486"				

		| "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368"				

		| "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557"				

		| "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661"					

		| "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328"				

		| "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L887	3730	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L888	1961	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L889	112	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L890	14	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L891	108	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L892	84	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)					
L893	1294444	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L894	45	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L895	22	((US-20140309862-A1 OR US-20120087634-A1 OR US-20140310031-A1 OR US-20150203125-A1 OR US-20140310788-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((EP-908339-A1 OR US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		20140310788-A1).did. AND DWPI.dbnm.) OR ((US-6155954-A OR US-8768313-B2 OR US-8463488-B1 OR US-8209436-B2 OR US-9684911-B2 OR US-9229905-B1 OR US-9373149-B2 OR US-7006986-B1 OR US-9372607-B1 OR US-9171268-B1 OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.)					
L896	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L897	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L898	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L899	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L900	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L901	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L902	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L903	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L904	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L905	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L906	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L907	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L908	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L909	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L910	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L911	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L912	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L913	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L914	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L915	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762"					

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L916	1453	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		"20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252"				

		"20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" |				

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		"5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815" | "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328"					

		| "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L917	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L918	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L919	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L920	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L921	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L922	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L923	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L924	57	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L925	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L926	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		account) near10 vehicle near10 (settings preferences)).clm.					
L927	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L928	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L929	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L930	143313	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L931	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

		(position setting))					
L932	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L933	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L934	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L935	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L936	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L937	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L938	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L939	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L940	43299	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

L941	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L942	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L943	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L944	60429	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L945	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L946	15	L52 and L37	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L947	1169	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L948	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L949	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L950	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L951	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L952	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L953	216	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L954	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L955	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L956	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L957	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L958	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L959	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L960	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L961	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L962	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L963	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L964	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L965	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" |				

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		| "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368"				

		| "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557"				

		| "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661"				

		| "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8333492" | "8336664" | "8346677" | "8350526" | "8352183" | "8358811" | "8364757" | "8366371" | "8370003" | "8370030" | "8380382" | "8380638" | "8391789" | "8391909" | "8392065" | "8401771" | "8402094" | "8402372" | "8405347" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8482255" | "8483775" | "8483907" | "8490005" | "8493849" | "8504284" | "8504512" | "8508188" | "8510268" | "8521599" | "8521656" | "8527135" | "8527146" | "8538458" | "8543143" | "8543323" | "8548493" | "8552686" | "8554770" | "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328"					

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L966	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L967	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L968	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L969	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L970	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L971	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L972	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L973	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		(user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L974	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L975	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L976	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L977	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L978	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L979	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L980	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		(verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)					
L981	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L982	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L983	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L984	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L985	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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L986	1453	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		"20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" |				

		"20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" |					

		"20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" | "20140066049" | "20140089016" | "20140106726" | "20140118107" | "20140120829" | "20140125355" | "20140136214" | "20140142783" | "20140163771" | "20140163774" | "20140164559" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742").PN. OR ("20140203077" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140277936" | "20140278089" | "20140300739" | "3690397" | "3799063" | "3867682" | "4052655" | "4102273" | "4132174" | "4162445" | "4309644" | "4347472" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4789047" | "4815840" | "5049802" | "5121112" | "5132666"				

		"5184058" | "5202617" | "5297664" | "5306999" | "5315227" | "5327066" | "5343970" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5548200" | "5549443" | "5555502" | "5563491" | "5585205" | "5594318" | "5595271" | "5596258" | "5612606" | "5627752" | "5636145" | "5642270" | "5666102" | "5691695" | "5694019" | "5701706" | "5736833" | "5760569" | "5778326" | "5790976" | "5892598" | "5916285" | "5974136" | "5998963" | "6014597" | "6049745" | "6067008" | "6081205" | "6085131" | "6104160" | "6151539" | "6175789" | "6225776" | "6234932" | "6236333" | "6252380" | "6285931" | "6301531" | "6307349" | "6330497" | "6330499" | "6370475" | "6373380" | "6416209" | "6434465" | "6456041" | "6466658" | "6480767" | "6487477" | "6498454" | "6511192" | "6586866" | "6614204" | "6629024" | "6680547" | "6727809" | "6741036" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6850898" | "6915869" | "6922629" | "6937140" | "6940254" | "7013205" | "7039389" | "7084781" | "7201384" | "7269416" | "7289611" | "7376497" | "7379541").PN. OR ("7402978" | "7496947" | "7532965" | "7565396" | "7630802" | "7650210" | "7674536" | "7683771" | "7693609" | "7698078" | "7740092" | "7751945" | "7778746" | "7796052" | "7850351" | "7869576" | "7885893" | "7949435" | "7956570" | "7979198" | "7986126" | "7991665" | "8006793" | "8027843" | "8036788" | "8050815"					

		| "8054048" | "8072318" | "8103391" | "8256553" | "8262268" | "8265816" | "8266075" | "8294420" | "8333492" | "8336664" | "8350526" | "8366371" | "8370030" | "8392065" | "8405347" | "8482255" | "8483775" | "8483907" | "8490005" | "8508188" | "8521599" | "8527135" | "8527146" | "8552686" | "8589019" | "8624719" | "8630741" | "8635091" | "8643329" | "8660734" | "8686864" | "8694328" | "8706394" | "8713121" | "8717170" | "8725551" | "8751065" | "8751271" | "8760432" | "8799037" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L987	483	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L988	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L989	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L990	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L991	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L992	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L993	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L994	57	L31 and (L29 L30) not	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

		L28	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L995	98	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L996	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L997	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2024/08/14 11:28 AM
L998	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L999	147	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1000	143313	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM

		Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L1001	229	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1002	9	L40 and L37	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1003	101	L40 and L39	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1004	38	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1005	113	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2024/08/14 11:28 AM
L1006	10687	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L1007	779	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1008	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1009	1061	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1010	43299	(transfer$4 sending	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

		sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L1011	47292	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1012	70868	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1013	12785	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		identifier)					
L1014	60429	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1015	1958	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1016	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1017	1169	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1018	6354	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1019	7269	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near4 (verify verification identifier)					
L1020	2129	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1021	129	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1022	2325	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1023	216	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1024	72	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		near3 (verify verification identifier)).ab.					
L1025	922	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1026	578	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1027	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1028	2786	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1029	1809	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1030	422	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1031	126	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1032	332	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1033	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1034	465	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1035	2826	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

		"20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030204290" | "20030205619" | "20030218253" | "20030220807" | "20030220835").PN. OR ("20030222918" | "20030225632" | "20030225833" | "20030234325" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581" | "20040044454" | "20040046506" | "20040054428" | "20040054561" | "20040056762"				

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		| "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114"				

		| "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251"				

		| "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687" | "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657"					

			"7979198" | "7980808" "7986126" | "7991665" "7991703" | "7996109" "7996270" | "8006793" "8010230" | "8027843" "8027943" | "8036788" "8046309" | "8050815" "8051089" | "8054048" "8060389" | "8060555" "8064590" | "8065291" "8072318" | "8073907" "8095430" | "8103391" "8103734" | "8107879" "8108501" | "8112419" "8117486" | "8136145" "8139514" | "8145661" "8145703" | "8149113" "8167234" | "8171128" "8190357" | "8190476" "8195601" | "8195744" "8204624" | "8204776" "8204952" | "8223012" "8225376" | "8229160" "8229470" | "8249943" "8256553" | "8262268" "8265816" | "8266075" "8271057").PN. OR ("8275546" | "8290943" "8292215" | "8294420" "8296373" | "8301743" "8315389" | "8326091" "8326315" | "8328130" "8333492" | "8336664" "8346677" | "8350526" "8352183" | "8358811" "8364757" | "8366371" "8370003" | "8370030" "8380382" | "8380638" "8391789" | "8391909" "8392065" | "8401771" "8402094" | "8402372" "8405347" | "8412576" "8412675" | "8422994" "8427308" | "8428565" "8433609" | "8433650" "8438156" | "8442923" "8443107" | "8447810" "8463295" | "8463764" "8473199" | "8482255" "8483775" | "8483907" "8490005" | "8493849" "8504284" | "8504512" "8508188" | "8510268" "8521599" | "8521656" "8527135" | "8527146" "8538458" | "8543143" "8543323" | "8548493" "8552686" | "8554770"				

		| "8554852" | "8560515" | "8584091" | "8589019" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.				
L1036	3730	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1037	1961	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1038	112	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1039	14	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1040	108	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM

		preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)					
L1041	84	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1042	1294444	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1043	45	L151 AND L149	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/14

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:28 AM
L1044	266	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/14 11:28 AM
L1045	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1046	991845	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1047	212768	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/08/14 11:28 AM

		Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	IBM_TDB)				
L1048	98	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1049	225	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1050	41	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1051	54364	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1052	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1053	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1054	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1055	1	("8050815").PN.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/08/14

			USOCR)				11:28 AM
L1056	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1057	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1058	104	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1059	215	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1060	98	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1061	57	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 11:28 AM
L1062	16	(vehicle near10 (biometric face fingerprint voice)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/08/14 11:28 AM

		near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	IBM_TDB)				
L1063	1813	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 11:28 AM

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L1193	50	(Artificial Intelligence) Similar to: 17/873,096 with 0 CPC Selections and 0 Text Selections Text: (US-20230077434-A1 OR US-11396244-B2 OR US-20200186590-A1 OR US-10652312-B2 OR US-20190190980-A1 OR US-9229905-B1 OR US-20160173568-A1 OR US-10218771-B2 OR US-9171268-B1 OR US-10554759-B2 OR US-20190199800-A1 OR US-10225350-B2 OR US-20160198002-A1 OR US-20160359980-A1 OR US-9288270-B1 OR US-9104537-B1 OR US-9426225-B2 OR US-9365188-B1 OR US-20160080500-A1 OR US-20160318481-A1 OR US-9215274-B2 OR US-11738659-B2 OR US-20210394637-A1 OR US-11104245-B2 OR US-20200047714-A1 OR US-9663067-B2 OR US-20180134254-A1 OR US-20240171948-A1 OR US-20150304406-A1 OR US-9139091-B1 OR US-20160214535-A1 OR US-10286842-B2 OR US-9697503-B1 OR US-20170267214-A1 OR US-10407026-B2 OR US-11889394-B2 OR US-10071643-B2 OR US-9809196-B1 OR US-9467515-B1 OR US-9229623-B1 OR JP-2013039029-A OR US-9285944-B1 OR US-20170320398-A1 OR US-9802500-B1 OR US-20190196851-A1 OR US-20230202413-A1 OR US-10223134-B1 OR US-11734026-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO))	OR	ON	ON	2024/08/14 12:00 PM

		B2 OR CN-111907529-A OR US-10286798-B1).did.					
L1194	50	(Artificial Intelligence) Similar to: 17/873,096 with 0 CPC Selections and 1 Text Selection Text: (US-9229905-B1 OR DE-102013020306-A1 OR US-10246102-B2 OR US-6675082-B2 OR EP-3501886-B1 OR US-20030204296-A1 OR EP-3501886-A1 OR US-20140194056-A1 OR US-20200186590-A1 OR US-20240008111-A1 OR US-20180265094-A1 OR US-20200245144-A1 OR US-20230077434-A1 OR US-11148658-B2 OR US-11396244-B2 OR US-20160104486-A1 OR US-10210487-B2 OR US-10652312-B2 OR US-20190190980-A1 OR US-20110137520-A1 OR US-9493130-B2 OR US-20140309866-A1 OR WO-2014172316-A1 OR US-11818538-B2 OR US-20210127438-A1 OR US-11546954-B2 OR US-20210204057-A1 OR US-10912135-B2 OR US-20200037379-A1 OR US-20240171948-A1 OR US-20230389095-A1 OR CN-113052648-A OR US-20210173532-A1 OR US-20190077346-A1 OR US-20220024446-A1 OR EP-3842937-B1 OR US-20180089912-A1 OR US-11889394-B2 OR US-20200391755-A1 OR US-10829068-B2 OR US-11358603-B2 OR US-6665600-B2	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO))	OR	ON	ON	2024/08/14 12:00 PM

		OR US-11794676-B1 OR US-20180188064-A1 OR US-20030195686-A1 OR DE-102018122188-A1 OR WO-2024010669-A1 OR WO-2013130036-A1 OR US-7477970-B2 OR US-8706349-B2).did.					
L1195	94079	(server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 12:26 PM
L1196	28401	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 12:28 PM
L1197	50029	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 12:29 PM

		preference radio temperature seat near2 (position posture) entertainment customiz$4)					
L1198	2096	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 12:30 PM
L1199	2207	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 12:31 PM
L1200	1689	(Verif$8 access$4 authenticat$4) WITH (user driver passenger rider) WITH (profile) WITH (vehicle autombile truck lorrey lorey car aircraft	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/08/14 12:34 PM

		airplane aeroplane) AND (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane)	IBM_TDB)				
L1201	2538723	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR B60L53/67 OR B60L2240/68 OR B60L2240/72 OR B60L2240/80 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 03:24 PM

		B60W40/09 OR B60W2540/043 OR B60W2556/10 OR G06Q20/145 OR G06Q20/308 OR G08G1/205 OR H04L63/0861 OR H04W4/80 OR H04W12/06 OR H04W12/50).cpc.					
L1202	926	L1200 AND L1201	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 03:24 PM
L1203	25	((US-20140310031-A1 OR US-20140310788-A1 OR US-20150203125-A1 OR US-20140309862-A1 OR US-20120087634-A1 OR US-20090204316-A1 OR US-20090150167-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20090144622-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((US-9171268-B1 OR US-9372607-B1 OR US-7006986-B1 OR US-9373149-B2 OR US-9229905-B1 OR US-9684911-B2 OR US-8209436-B2 OR US-8463488-B1 OR US-8768313-B2 OR US-6155954-A OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.) OR ((US-20140310788-A1 OR EP-908339-A1).did. AND DWPI.dbnm.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/08/14 03:27 PM
L1204	3015	("5917407" | "6061660" | "20030149617" | "20040054561" | "20060116132" | "20070239627" | "20090144151" | "20090258642" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/08/14 03:28 PM

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L1205	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1206	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1207	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1208	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1209	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1210	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1211	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1212	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1213	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1214	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1215	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2025/02/19 12:49 PM

			JPO; DERWENT; IBM_TDB)				
L1216	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1217	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1218	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1219	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1220	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1221	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1222	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1223	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1224	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570" | "20040122693" | "20040128215" | "20040135805" | "20040138790"				

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		"20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624"				

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		("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L1226	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1227	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1228	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1229	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1230	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1231	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1232	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1233	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1234	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1235	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1236	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1237	268	((("PENILLA") near3 ("Angel")) OR	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2025/02/19 12:49 PM

		(("PENILLA") near3 ("Albert"))).INV.	DERWENT)				
L1238	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1239	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1240	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1241	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1242	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1243	40	((transfer$4 sending sent receiv$4 transc$4)	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L1244	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1245	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1246	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		(position setting))					
L1247	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1248	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1249	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1250	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L1251	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1252	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1253	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1254	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1255	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1256	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L1257	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1258	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1259	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1260	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1261	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L1262	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1263	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1264	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1265	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near3 (verify verification identifier)					
L1266	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1267	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1268	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume (seat chair) near2 (position setting reclin$4))					
L1269	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1270	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1271	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1272	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L1273	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1274	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277"				

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L1275	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1276	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1277	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1278	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1279	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1280	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1281	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1282	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1283	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2025/02/19 12:49 PM

			JPO; DERWENT; IBM_TDB)				
L1284	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1285	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1286	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1287	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1288	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1289	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1290	217	vehicle with (biometric face fingerprint voice) with (profile account)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2025/02/19 12:49 PM

		and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	IBM_TDB)				
L1291	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1292	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1293	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1294	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358"				

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		| "7158878" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7209803").PN. OR ("7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269590" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7383251" | "7386542" | "7389210" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7539557" | "7561169" | "7561950" | "7562023" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795" | "7599935" | "7617048" | "7636687" | "7640204" | "7658346" | "7668405" | "7669123" | "7680673" | "7680859" | "7693953" | "7702545" | "7725492" | "7734254" | "7751971" | "7761789" | "7792815" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7853518" | "7853563" | "7860889" | "7870199" | "7873471" | "7881864" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7933808" | "7933810"				

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L1295	1475	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		"20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809"				

		"20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" |				

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L1296	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1297	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1298	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1299	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1300	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1301	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1302	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1303	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1304	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1305	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1306	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1307	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1308	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1309	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1310	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L1311	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1312	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1313	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1314	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1315	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1316	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1317	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1318	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1319	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L1320	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1321	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1322	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1323	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		profile) near4 (verify verification identifier)					
L1324	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1325	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1326	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1327	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1328	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1329	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1330	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1331	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1332	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1333	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1334	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1335	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1336	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1337	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1338	1907	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1339	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1340	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1341	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1342	5	((vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1343	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1344	2985	("20010005829" | "20010016795" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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L1345	3899	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1346	2042	(vehicle truck car automobile) AND (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2025/02/19 12:49 PM

		driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	JPO; DERWENT; IBM_TDB)				
L1347	121	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1348	16	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1349	113	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1350	87	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1351	1320018	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1352	46	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1353	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM

L1354	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1355	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1356	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1357	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1358	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1359	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1360	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1361	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1362	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1363	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1364	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1365	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		account) and (profile account) near10 vehicle near10 (settings preferences)					
L1366	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1367	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1368	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1369	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1370	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1371	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1372	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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		"20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" |				

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L1374	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1375	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1376	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1377	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1378	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1379	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1380	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1381	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1382	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1383	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1384	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1385	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1386	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1387	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L1388	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1389	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1390	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1391	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1392	116	((transfer$4 sending	(USPAT)	OR	ON	ON	2025/02/19

		sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					12:49 PM
L1393	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1394	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1395	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		(position setting)) and (user driver customer profile) near4 (verify verification identifier)					
L1396	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1397	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1398	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1399	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L1400	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1401	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1402	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1403	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1404	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1405	6624	(vehicle truck car automobile) same2	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2025/02/19 12:49 PM

		(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	JPO; DERWENT; IBM_TDB)				
L1406	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1407	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1408	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1409	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1410	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.					
L1411	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1412	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1413	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1414	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.					
L1415	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1416	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1417	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1418	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1419	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1420	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1421	485	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1422	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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| "5596258" | "5612606"
| "5617319" | "5627752"
| "5630103" | "5636145"
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| "5831664" | "5835896"
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| "5892598" | "5903721"
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| "5917407" | "5926765"
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| "5991737" | "5991750"
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| "6047194" | "6047236"
| "6048289" | "6049745"
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| "6067008" | "6073138"
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| "6085131").PN. OR
("6088702" | "6092076"
| "6092105" | "6101484"
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| "6336111" | "6339745"
| "6351739" | "6356834"
| "6370475" | "6373380"
| "6381537" | "6401085"
| "6405123" | "6408307"
| "6416209" | "6429773"
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| "6453339" | "6456041"

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		"2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L1423	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1424	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1425	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1426	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1427	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1428	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1429	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1430	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1431	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1432	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near10 (settings preferences)).clm.					
L1433	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1434	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1435	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1436	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1437	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1438	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1439	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1440	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1441	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1442	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570"				

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		| "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7383251" | "7386542" | "7389210" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7539557" | "7561169" | "7561950" | "7562023" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795" | "7599935" | "7617048" | "7636687" | "7640204" | "7658346" | "7668405" | "7669123" | "7680673" | "7680859" | "7693953" | "7702545" | "7725492" | "7734254" | "7751971" | "7761789" | "7792815" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7853518" | "7853563" | "7860889" | "7870199" | "7873471" | "7881864" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7933808" | "7933810" | "7945653" | "7949714" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7980808" | "7991703" | "7996109" | "7996270" | "8010230" | "8027943" | "8046309" | "8051089" | "8060389" | "8060555" | "8064590").PN. OR ("8065291" | "8073907" | "8095430" | "8103734"				

		| "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229470" | "8249943" | "8271057" | "8275546" | "8290943" | "8292215" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8346677" | "8352183" | "8364757" | "8370003" | "8380382" | "8380638" | "8391789" | "8391909" | "8401771" | "8402094" | "8402372" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8493849" | "8504284" | "8504512" | "8510268" | "8521656" | "8538458" | "8543143" | "8543323" | "8548493" | "8554770" | "8554852" | "8560515" | "8584091" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8626699" | "8627506" | "8635015" | "8649976" | "8650103" | "8655873" | "8660541" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8688594" | "8694605" | "8695919" | "8706297" | "8712441" | "8713055" | "8713143" | "8718910" | "8723679" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8775405" | "8794566" | "8799253" | "8825226" | "8832556" | "D710454").PN. OR ("2014/0309862" | "2014/0310031" |				

		"2014/0310788" | "7006986" | "8050815" | "9373149").URPN.					
L1443	1475	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		"20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300"				

		"20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057" | "20130204466" | "20130241720" | "20130253746" | "20130280018" | "20130300554" | "20130317693" | "20130317694" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140042968" | "20140047107" |				

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		| "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8836281" | "8977408").PN. OR ("2015/0203125" | "9171268" | "9229905" | "9372607").URPN.					
L1444	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1445	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1446	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1447	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1448	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1449	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1450	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1451	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1452	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1453	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1454	1	("20110060480").PN.	(US-PGPUB; USPAT;	OR	OFF	OFF	2025/02/19

			USOCR)				12:49 PM
L1455	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1456	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1457	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1458	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1459	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1460	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19

							12:49 PM
L1461	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1462	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1463	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1464	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L1465	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1466	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1467	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1468	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L1469	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1470	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1471	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1472	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1473	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1474	1208	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1475	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1476	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1477	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1478	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1479	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L1480	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1481	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1482	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1483	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L1484	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1485	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1486	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1487	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1488	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1489	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1490	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L1491	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
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L1493	3899	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1494	2042	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		reclin$4))					
L1495	121	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1496	16	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1497	113	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1498	87	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		reclin$4)) Near10 (vehicle truck car automobile)					
L1499	1320018	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1500	46	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1501	22	((US-20140309862-A1 OR US-20120087634-A1 OR US-20140310031-A1 OR US-20150203125-A1 OR US-20140310788-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((EP-908339-A1 OR US-20140310788-A1).did. AND DWPI.dbnm.) OR ((US-6155954-A OR US-8768313-B2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		US-8463488-B1 OR US-8209436-B2 OR US-9684911-B2 OR US-9229905-B1 OR US-9373149-B2 OR US-7006986-B1 OR US-9372607-B1 OR US-9171268-B1 OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.)					
L1502	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1503	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1504	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1505	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1506	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1507	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1508	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1509	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1510	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1511	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near10 (settings preferences)).clm.					
L1512	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1513	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1514	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1515	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1516	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1517	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1518	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1519	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1520	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1521	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570"				

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		| "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6587787" | "6597983" | "6600418" | "6611751" | "6615039" | "6622086" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6728635" | "6741920" | "6745196" | "6750881" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6918576" | "6924750" | "6925368" | "6926233" | "6931419" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013292" | "7024397" | "7024455" | "7038681" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7209803").PN. OR ("7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269590" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034"				

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		| "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229470" | "8249943" | "8271057" | "8275546" | "8290943" | "8292215" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8346677" | "8352183" | "8364757" | "8370003" | "8380382" | "8380638" | "8391789" | "8391909" | "8401771" | "8402094" | "8402372" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8493849" | "8504284" | "8504512" | "8510268" | "8521656" | "8538458" | "8543143" | "8543323" | "8548493" | "8554770" | "8554852" | "8560515" | "8584091" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8626699" | "8627506" | "8635015" | "8649976" | "8650103" | "8655873" | "8660541" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8688594" | "8694605" | "8695919" | "8706297" | "8712441" | "8713055" | "8713143" | "8718910" | "8723679" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8775405" | "8794566" | "8799253" | "8825226" | "8832556" | "D710454").PN. OR ("2014/0309862" | "2014/0310031" |				

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L1522	1475	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		"20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300"				

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L1523	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1524	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1525	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1526	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1527	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1528	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1529	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1530	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1531	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1532	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1533	1	("20110060480").PN.	(US-PGPUB; USPAT;	OR	OFF	OFF	2025/02/19

			USOCR)				12:49 PM
L1534	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1535	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1536	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1537	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1538	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1539	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19

							12:49 PM
L1540	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1541	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1542	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1543	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L1544	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1545	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1546	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1547	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L1548	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1549	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1550	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1551	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1552	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1553	1208	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1554	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1555	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1556	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1557	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1558	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L1559	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1560	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1561	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1562	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L1563	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1564	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1565	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1566	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1567	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1568	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1569	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L1570	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1571	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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L1572	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1573	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1574	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1575	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1576	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1577	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1578	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1579	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		vehicle near10 (settings preferences)).clm.					
L1580	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1581	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1582	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1583	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1584	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1585	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1586	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		preferences)					
L1587	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1588	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1589	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1590	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1591	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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		| "8660541" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8688594" | "8694605" | "8695919" | "8706297" | "8712441" | "8713055" | "8713143" | "8718910" | "8723679" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8775405" | "8794566" | "8799253" | "8825226" | "8832556" | "D710454").PN. OR ("2014/0309862" | "2014/0310031" | "2014/0310788" | "7006986" | "8050815" | "9373149").URPN.					
L1592	1475	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		"20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349"					

		"20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" |				

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L1593	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1594	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1595	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1596	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1597	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1598	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1599	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1600	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1601	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1602	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1603	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1604	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1605	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1606	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

L1607	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1608	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1609	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1610	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1611	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1612	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L1613	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1614	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1615	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1616	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L1617	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1618	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1619	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1620	62773	(transfer$4 sending	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1621	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1622	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1623	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1624	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1625	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1626	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1627	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1628	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1629	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1630	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1631	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1632	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1633	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1634	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume (seat chair) near2 (position setting reclin$4))					
L1635	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1636	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1637	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1638	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume (seat chair) near2 (position setting reclin$4))					
L1639	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1640	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near2 (position setting reclin$4))					
L1641	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030204290" | "20030205619" | "20030218253" | "20030220807" | "20030220835").PN. OR ("20030222918" | "20030225632" | "20030225833" | "20030234325" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581" | "20040044454" | "20040046506" | "20040054428" | "20040054561" | "20040056762" | "20040059471" | "20040064235" | "20040078655"				

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		"20120028680" | "20120041624" | "20120047102" | "20120047448" | "20120053754" | "20120074903" | "20120077523" | "20120084289" | "20120096098" | "20120105197" | "20120123667" | "20120123670" | "20120126974" | "20120136743" | "20120136802" | "20120138732" | "20120151569" | "20120158244" | "20120163206" | "20120166935" | "20120179323" | "20120179552" | "20120191606" | "20120191797" | "20120209775" | "20120218128" | "20120221470" | "20120224076" | "20120229056" | "20120229085" | "20120232958" | "20120232965" | "20120233077" | "20120239483" | "20120239520" | "20120246024" | "20120254774" | "20120259688" | "20120262002" | "20120264447" | "20120268068" | "20120268076" | "20120268242" | "20120270567" | "20120278743" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120324018" | "20120330494" | "20120331002" | "20130002876" | "20130005307" | "20130020139" | "20130021162" |				

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| "7996270" | "8006793"
| "8010230" | "8027843"
| "8027943" | "8036788"
| "8046309" | "8050815"
| "8051089" | "8054048"
| "8060389" | "8060555"
| "8064590" | "8065291"
| "8072318" | "8073907"
| "8095430" | "8103391"
| "8103734" | "8107879"
| "8108501" | "8112419"
| "8117486" | "8136145"
| "8139514" | "8145661"
| "8145703" | "8149113"
| "8167234" | "8171128"
| "8190357" | "8190476"
| "8195601" | "8195744"
| "8204624" | "8204776"
| "8204952" | "8223012"
| "8225376" | "8229160"
| "8229470" | "8249943"
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| "8265816" | "8266075"
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("8275546" | "8290943"
| "8292215" | "8294420"
| "8296373" | "8301743"
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| "8333492" | "8336664"
| "8346677" | "8350526"
| "8352183" | "8358811"
| "8364757" | "8366371"
| "8370003" | "8370030"
| "8380382" | "8380638"
| "8391789" | "8391909"
| "8392065" | "8401771"
| "8402094" | "8402372"
| "8405347" | "8412576"
| "8412675" | "8422994"
| "8427308" | "8428565"
| "8433609" | "8433650"
| "8438156" | "8442923"
| "8443107" | "8447810"
| "8463295" | "8463764"
| "8473199" | "8482255"
| "8483775" | "8483907"
| "8490005" | "8493849"
| "8504284" | "8504512"
| "8508188" | "8510268"
| "8521599" | "8521656"
| "8527135" | "8527146"
| "8538458" | "8543143"
| "8543323" | "8548493"
| "8552686" | "8554770"
| "8554852" | "8560515"
| "8584091" | "8589019"
| "8589330" | "8594715"

		| "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8624719" | "8626699" | "8627506" | "8630741" | "8635015" | "8635091" | "8643329" | "8649976" | "8650103" | "8655873" | "8660541" | "8660734" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8686864" | "8688594" | "8694328" | "8694605" | "8695919" | "8706297" | "8706394" | "8712441" | "8713055" | "8713121" | "8713143" | "8717170" | "8718910" | "8723679" | "8725551" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8751065" | "8751271" | "8760432" | "8775405" | "8794566" | "8799037" | "8799253" | "8816845" | "8818622" | "8818725" | "8819414" | "8825222" | "8825226" | "8832556").PN. OR ("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.				
L1642	3899	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume (seat chair) near2 (position setting reclin$4))					
L1643	2042	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1644	121	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1645	16	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1646	113	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)					
L1647	87	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1648	1320018	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1649	46	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1650	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1651	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1652	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1653	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1654	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1655	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1656	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1657	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1658	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1659	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1660	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1661	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1662	106	vehicle near10 (biometric face fingerprint voice)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2025/02/19 12:49 PM

		near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	IBM_TDB)				
L1663	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1664	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1665	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1666	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1667	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1668	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		account) near10 vehicle near10 (settings preferences)).clm.					
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		"20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570" | "20040122693" | "20040128215" | "20040135805" | "20040138790" | "20040139034" | "20040139049" | "20040145593" | "20040146199" | "20040148275" | "20040148354" | "20040153466" | "20040157648"				

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		"20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" |				

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L1671	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1672	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1673	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1674	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1675	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1676	214849	(Y02T90/121 or	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1677	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1678	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1679	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1680	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1681	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1682	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1683	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1684	148011	(B60L53/665 or H04W4/02 or H04W4/029 or	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L1685	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1686	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1687	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1688	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L1689	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1690	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1691	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1692	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)					
L1693	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1694	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1695	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		identifier)					
L1696	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1697	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1698	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1699	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1700	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1701	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		driver customer profile) near4 (verify verification identifier)					
L1702	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1703	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1704	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1705	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1706	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1707	223	((vehicle truck car automobile) and (transfer$4 sending	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2025/02/19 12:49 PM

		sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	IBM_TDB)				
L1708	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1709	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1710	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1711	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.					
L1712	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1713	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1714	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1715	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1716	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1717	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume (seat chair) near2 (position setting reclin$4))).clm.					
L1718	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1719	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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		"20110128144" | "20110130885" | "20110131172" | "20110151898" | "20110163160" | "20110174920" | "20110181470" | "20110184643" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110202426" | "20110219318" | "20110231268" | "20110246252" | "20110246258" | "20110254655" | "20110256895" | "20110258028" | "20110264692" | "20110279083").PN. OR ("20110291851" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120023196" | "20120025765" | "20120028680" | "20120041624" | "20120047102" | "20120047448" | "20120053754" | "20120074903" | "20120077523" | "20120084289" | "20120096098" | "20120105197" | "20120123667" | "20120123670" | "20120126974" | "20120136743" | "20120136802" | "20120138732" | "20120151569" | "20120158244" | "20120163206" | "20120166935" | "20120179323" | "20120179552" | "20120191606" | "20120191797" | "20120209775" | "20120218128" | "20120221470" | "20120224076" | "20120229056"				

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		"20130204466" | "20130241720" | "20130253746" | "20130254670" | "20130280018" | "20130282842" | "20130297589" | "20130300554" | "20130301405" | "20130303197" | "20130317693" | "20130317694" | "20130317999" | "20130325325" | "20130328387" | "20130338820" | "20130342363" | "20140002015" | "20140019280" | "20140021908" | "20140032034" | "20140040179" | "20140042968" | "20140047107" | "20140066049" | "20140067167" | "20140067704" | "20140067938" | "20140074736" | "20140076642" | "20140081450" | "20140087780" | "20140089016" | "20140095293" | "20140100900" | "20140106726" | "20140108540" | "20140108556" | "20140108613" | "20140114866" | "20140115671" | "20140118107" | "20140120829" | "20140122295" | "20140123246" | "20140123247" | "20140125355" | "20140130140" | "20140135039" | "20140136214" | "20140136328" | "20140136414" | "20140136624" | "20140142783" | "20140142848" | "20140143061" | "20140149244" | "20140149508" |				

		"20140163771" | "20140163774" | "20140164126" | "20140164559" | "20140165091" | "20140172192" | "20140172265" | "20140172727" | "20140179353" | "20140200742" | "20140203077" | "20140204360" | "20140207333" | "20140214261" | "20140214321" | "20140218189" | "20140222298" | "20140222908" | "20140232331" | "20140236414" | "20140236463" | "20140253018" | "20140254896" | "20140277834" | "20140277936" | "20140278089" | "20140300739" | "20140316243" | "20140337160" | "2035218" | "3253806" | "3556438" | "3690397" | "3762669" | "3799063" | "3867682").PN. OR ("4052655" | "4102273" | "4119163" | "4132174" | "4161843" | "4162445" | "4309644" | "4347472" | "4375354" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4556198" | "4779203" | "4789047" | "4815840" | "4914605" | "4996468" | "5006988" | "5032989" | "5049802" | "5050844" | "5121112" | "5132666" | "5184058" | "5199686" | "5202617" | "5208750" | "5297664" | "5306999" | "5315227" | "5325294" | "5327066" | "5343970" | "5372211" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5521817" | "5548200" | "5549443" | "5555502" | "5563491"					

		| "5572449" | "5577567" | "5581630" | "5584025" | "5585205" | "5590062" | "5594318" | "5595271" | "5596258" | "5612606" | "5617319" | "5627752" | "5630103" | "5636145" | "5642270" | "5666102" | "5671342" | "5691695" | "5694019" | "5701706" | "5720363" | "5736833" | "5751245" | "5760569" | "5774133" | "5778326" | "5790976" | "5793028" | "5794207" | "5805719" | "5805810" | "5819269" | "5826244" | "5826245" | "5831664" | "5835896" | "5838812" | "5852810" | "5870723" | "5883810" | "5892598" | "5903721" | "5904214" | "5905499" | "5907322" | "5916285" | "5917407" | "5926765" | "5930474" | "5937413" | "5940806" | "5974136" | "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745" | "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085"					

		| "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733" | "6794849" | "6798407" | "6816850" | "6819267" | "6834229" | "6847823" | "6850898" | "6871140" | "6879910" | "6882307" | "6883748" | "6889213" | "6907405" | "6915869" | "6918576" | "6922629" | "6924750" | "6925368" | "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409"					

| "7076741" | "7079943"
| "7080019" | "7080096"
| "7084781" | "7085650"
| "7099745" | "7099862"
| "7117254" | "7130702"
| "7135967" | "7136915"
| "7138914" | "7155321"
| "7155336" | "7158878"
| "7171199" | "7174301"
| "7177872" | "7178720"
| "7184990" | "7188056"
| "7188080" | "7188153"
| "7201384" | "7209803"
| "7218993" | "7228232"
| "7233942" | "7249123"
| "7249732" | "7251647"
| "7254559" | "7269416"
| "7269590" | "7272407"
| "7289611" | "7293019"
| "7296026" | "7306186"
| "7324810" | "7343564"
| "7353034" | "7353114"
| "7353199" | "7359871"
| "7359894" | "7373244"
| "7375618" | "7376497"
| "7379541" | "7383251"
| "7386542" | "7389210"
| "7402978" | "7412446"
| "7424438" | "7424541"
| "7426970" | "7433832"
| "7433868" | "7437368"
| "7441031" | "7444241"
| "7447509" | "7447685"
| "7447771" | "7454524"
| "7475953" | "7477285"
| "7477970" | "7478324"
| "7480867" | "7483960"
| "7487114" | "7496603"
| "7496947" | "7500258"
| "7505919" | "7505929"
| "7520466" | "7525276"
| "7532965" | "7539557"
| "7548491" | "7561169"
| "7561950" | "7562023"
| "7565396" | "7570597"
| "7580862" | "7581702"
| "7587276" | "7596511"
| "7599795").PN. OR
("7599935" | "7617048"
| "7630802" | "7636687"
| "7640204" | "7650210"
| "7658346" | "7668405"
| "7669123" | "7674536"
| "7680673" | "7680859"
| "7683771" | "7693609"
| "7693953" | "7698078"
| "7702545" | "7725492"
| "7734254" | "7740092"

		| "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075" | "8271057").PN. OR ("8275546" | "8290943" | "8292215" | "8294420" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130"				

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		("8836281" | "8977408" | "D710454").PN. OR ("2007/0207789" | "2011/0060480" | "2012/0087634" | "2014/0309862" | "2014/0310031" | "2014/0310788" | "2015/0203125" | "6155954" | "7006986" | "8050815" | "8209436" | "8463488" | "8768313" | "9171268" | "9229905" | "9372607" | "9373149" | "9684911").URPN.					
L1720	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1721	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1722	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1723	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1724	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1725	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1726	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1727	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1728	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1729	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L1730	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1731	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1732	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1733	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1734	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1735	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1736	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1737	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1738	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1739	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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L1740	1475	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		"20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252"				

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L1741	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1742	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1743	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1744	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1745	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1746	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1747	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1748	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1749	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1750	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		account) near10 vehicle near10 (settings preferences)).clm.					
L1751	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1752	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1753	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1754	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1755	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		(position setting))					
L1756	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1757	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1758	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1759	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1760	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1761	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L1762	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1763	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1764	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1765	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1766	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1767	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1768	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1769	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1770	15	L52 and L37	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1771	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1772	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1773	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1774	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1775	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1776	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L1777	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1778	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1779	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1780	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L1781	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1782	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1783	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1784	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1785	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1786	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1787	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L1788	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1789	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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		| "6926233").PN. OR ("6931419" | "6937140" | "6940254" | "6947908" | "6950791" | "6963879" | "6963899" | "6968179" | "6968513" | "6970075" | "6974123" | "6976031" | "6978284" | "6983139" | "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557"				

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L1790	3899	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1791	2042	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1792	121	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1793	16	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1794	113	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1795	87	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)					
L1796	1320018	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1797	46	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1798	22	((US-20140309862-A1 OR US-20120087634-A1 OR US-20140310031-A1 OR US-20150203125-A1 OR US-20140310788-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((EP-908339-A1 OR US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		20140310788-A1).did. AND DWPI.dbnm.) OR ((US-6155954-A OR US-8768313-B2 OR US-8463488-B1 OR US-8209436-B2 OR US-9684911-B2 OR US-9229905-B1 OR US-9373149-B2 OR US-7006986-B1 OR US-9372607-B1 OR US-9171268-B1 OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.)					
L1799	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1800	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1801	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1802	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1803	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1804	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1805	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1806	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1807	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1808	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L1809	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1810	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1811	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1812	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1813	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1814	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1815	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1816	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1817	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1818	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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		| "7254559" | "7269590" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7383251" | "7386542" | "7389210" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7539557" | "7561169" | "7561950" | "7562023" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795" | "7599935" | "7617048" | "7636687" | "7640204" | "7658346" | "7668405" | "7669123" | "7680673" | "7680859" | "7693953" | "7702545" | "7725492" | "7734254" | "7751971" | "7761789" | "7792815" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7853518" | "7853563" | "7860889" | "7870199" | "7873471" | "7881864" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7933808" | "7933810" | "7945653" | "7949714" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7980808" | "7991703" | "7996109" | "7996270" | "8010230" | "8027943" | "8046309" | "8051089"				

		| "8060389" | "8060555" | "8064590").PN. OR ("8065291" | "8073907" | "8095430" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229470" | "8249943" | "8271057" | "8275546" | "8290943" | "8292215" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8346677" | "8352183" | "8364757" | "8370003" | "8380382" | "8380638" | "8391789" | "8391909" | "8401771" | "8402094" | "8402372" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8493849" | "8504284" | "8504512" | "8510268" | "8521656" | "8538458" | "8543143" | "8543323" | "8548493" | "8554770" | "8554852" | "8560515" | "8584091" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532" | "8620827" | "8621374" | "8626699" | "8627506" | "8635015" | "8649976" | "8650103" | "8655873" | "8660541" | "8660897" | "8666660" | "8671095" | "8671106" | "8683342" | "8688594" | "8694605" | "8695919" | "8706297" | "8712441" | "8713055" | "8713143" | "8718910" | "8723679" | "8732091" | "8732155" | "8732219" | "8732846" | "8738545" | "8775405" | "8794566" | "8799253" | "8825226"				

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		"20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252"				

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L1820	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1821	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1822	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1823	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1824	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1825	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1826	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1827	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1828	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1829	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		account) near10 vehicle near10 (settings preferences)).clm.					
L1830	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1831	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1832	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1833	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1834	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		(position setting))					
L1835	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1836	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1837	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1838	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1839	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1840	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L1841	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1842	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1843	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L1844	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1845	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1846	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1847	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1848	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1849	15	L52 and L37	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1850	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1851	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1852	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1853	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1854	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1855	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L1856	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1857	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1858	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1859	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L1860	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1861	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1862	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1863	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1864	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1865	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1866	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L1867	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1868	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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L1869	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1870	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1871	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1872	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1873	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1874	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1875	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1876	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		(user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L1877	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1878	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1879	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1880	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1881	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1882	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1883	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		(verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)					
L1884	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1885	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1886	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1887	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1888	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192"				

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		| "7840558" | "7848765" | "7853518" | "7853563" | "7860889" | "7870199" | "7873471" | "7881864" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7933808" | "7933810" | "7945653" | "7949714" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7980808" | "7991703" | "7996109" | "7996270" | "8010230" | "8027943" | "8046309" | "8051089" | "8060389" | "8060555" | "8064590").PN. OR ("8065291" | "8073907" | "8095430" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229470" | "8249943" | "8271057" | "8275546" | "8290943" | "8292215" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8346677" | "8352183" | "8364757" | "8370003" | "8380382" | "8380638" | "8391789" | "8391909" | "8401771" | "8402094" | "8402372" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8493849" | "8504284" | "8504512" | "8510268" | "8521656" | "8538458" | "8543143" | "8543323" | "8548493" | "8554770" | "8554852" | "8560515" | "8584091" | "8589330" | "8594715" | "8595292" | "8600602" | "8615565" | "8620532"				

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		"20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" | "20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643"				

		"20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" |					

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L1890	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1891	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1892	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1893	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1894	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1895	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1896	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1897	58	L31 and (L29 L30) not	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		L28	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1898	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1899	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1900	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1901	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1902	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1903	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.					
L1904	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1905	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1906	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1907	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1908	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1909	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L1910	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1911	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1912	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1913	45046	(transfer$4 sending	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1914	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1915	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1916	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		identifier)					
L1917	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1918	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1919	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1920	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1921	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1922	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near4 (verify verification identifier)					
L1923	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1924	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1925	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1926	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1927	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near3 (verify verification identifier)).ab.					
L1928	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1929	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1930	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1931	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1932	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1933	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1934	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1935	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1936	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1937	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1938	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" | "20030144005" | "20030145093" | "20030149617" | "20030153278" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030204290" | "20030205619" | "20030218253" | "20030220807" | "20030220835").PN. OR ("20030222918" | "20030225632" | "20030225833" | "20030234325" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581" | "20040044454" | "20040046506" | "20040054428" | "20040054561" | "20040056762"				

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L1939	3899	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L1940	2042	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1941	121	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1942	16	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1943	113	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)					
L1944	87	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1945	1320018	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1946	46	L151 AND L149	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1947	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1948	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1949	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1950	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	IBM_TDB)				
L1951	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1952	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1953	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1954	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1955	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1956	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1957	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1958	1	("8050815").PN.	(US-PGPUB; USPAT;	OR	OFF	OFF	2025/02/19

			USOCR)				12:49 PM
L1959	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1960	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1961	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1962	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1963	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1964	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1965	16	(vehicle near10 (biometric face fingerprint voice)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2025/02/19 12:49 PM

		near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	IBM_TDB)				
L1966	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570" | "20040122693" | "20040128215" | "20040135805" | "20040138790" | "20040139034" | "20040139049" | "20040145593"				

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L1969	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1970	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1971	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1972	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L1973	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1974	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1975	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1976	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1977	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1978	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L1979	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L1980	185	("2011/0060480").URP	(USPAT)	OR	ON	ON	2025/02/19

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L1981	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1982	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1983	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1984	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1985	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L1986	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L1987	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1988	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1989	1107	(transfer$4 sending	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L1990	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1991	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1992	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L1993	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1994	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1995	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1996	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1997	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L1998	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L1999	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2000	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2001	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2002	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2003	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		identifier)					
L2004	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2005	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2006	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2007	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2008	59	((vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L2009	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2010	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L2011	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2013	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2014	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume (seat chair) near2 (position setting reclin$4))).clm.					
L2015	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2016	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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| "6085131").PN. OR
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L2017	268	(((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L2018	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2019	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L2020	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2021	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2022	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2023	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2025	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2026	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2027	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L2028	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L2029	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2030	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2031	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2032	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2033	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2034	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2035	16	(vehicle near10 (biometric face	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2025/02/19 12:49 PM

		fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	JPO; DERWENT; IBM_TDB)				
L2036	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012" | "20040111302" | "20040122570" | "20040122693" | "20040128215" | "20040135805" | "20040138790" | "20040139034" | "20040139049"				

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L2037	1475	("20020064258" | "20020085043" |	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2025/02/19 12:49 PM

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		"20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110" | "20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903"				

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		"9372607").URPN.					
L2038	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2040	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2041	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L2042	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L2043	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2044	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2045	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2046	100	L31 and (L29 L30)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2047	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2048	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L2049	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L2050	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2052	240	(transfer$4 sending sent receiv$4 transc$4)	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L2053	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2054	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2055	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2056	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2057	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume seat near2 (position setting))					
L2058	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2059	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2060	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2061	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)					
L2062	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2063	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2064	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2065	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2025/02/19 12:49 PM

		customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	IBM_TDB)				
L2067	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2068	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2069	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2070	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2071	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2072	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2025/02/19 12:49 PM

			JPO; DERWENT; IBM_TDB)				
L2073	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2075	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2076	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2077	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L2078	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2079	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2080	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		reclin$4))					
L2081	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2082	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2083	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2084	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L2085	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2086	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

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		| "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943" | "8256553" | "8262268" | "8265816" | "8266075"				

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L2087	3899	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2088	2042	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2089	121	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)					
L2090	16	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2091	113	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2092	87	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2093	1320018	(B60L53/665 OR B60L53/68 OR B60W40/08 OR	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2025/02/19 12:49 PM

		G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	IBM_TDB)				
L2095	22	((US-20140309862-A1 OR US-20120087634-A1 OR US-20140310031-A1 OR US-20150203125-A1 OR US-20140310788-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((EP-908339-A1 OR US-20140310788-A1).did. AND DWPI.dbnm.) OR ((US-6155954-A OR US-8768313-B2 OR US-8463488-B1 OR US-8209436-B2 OR US-9684911-B2 OR US-9229905-B1 OR US-9373149-B2 OR US-7006986-B1 OR US-9372607-B1 OR US-9171268-B1 OR US-8050815-B2 OR US-6064996-A).did.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		AND USPT.dbnm.)					
L2096	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L2097	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2098	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2099	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L2100	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2101	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2102	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2104	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2105	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2106	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2107	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L2108	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L2110	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2111	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2112	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2113	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2114	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2115	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213"				

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		| "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7853518" | "7853563" | "7860889" | "7870199" | "7873471" | "7881864" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7933808" | "7933810" | "7945653" | "7949714" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7980808" | "7991703" | "7996109" | "7996270" | "8010230" | "8027943" | "8046309" | "8051089" | "8060389" | "8060555" | "8064590").PN. OR ("8065291" | "8073907" | "8095430" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229470" | "8249943" | "8271057" | "8275546" | "8290943" | "8292215" | "8296373" | "8301743" | "8315389" | "8326091" | "8326315" | "8328130" | "8346677" | "8352183" | "8364757" | "8370003" | "8380382" | "8380638" | "8391789" | "8391909" | "8401771" | "8402094" | "8402372" | "8412576" | "8412675" | "8422994" | "8427308" | "8428565" | "8433609" | "8433650" | "8438156" | "8442923" | "8443107" | "8447810" | "8463295" | "8463764" | "8473199" | "8493849" | "8504284" | "8504512" | "8510268" | "8521656" | "8538458" | "8543143"				

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L2117	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2118	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2119	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2120	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L2121	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L2122	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2123	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		preferences)					
L2124	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2126	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2127	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L2128	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L2129	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2130	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/169).cpc.					
L2131	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2132	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2133	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2134	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2135	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2136	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))					
L2137	809	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) same2 (user driver customer profile) near4 (verify verification identifier) same2 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2138	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2139	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2140	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2025/02/19 12:49 PM

		customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	IBM_TDB)				
L2141	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2142	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2143	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L2144	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2145	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2146	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2147	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2148	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2149	7573	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		identifier)					
L2150	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2151	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2153	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2154	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).ab.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2155	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2156	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)					
L2157	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2158	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2159	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L2161	127	L68 and L61	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2162	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2163	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.					
L2164	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2165	2985	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020064258" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020085043" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020102966" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133273" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030065805" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030137277" |				

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		| "6987976" | "6999858" | "7006881" | "7013205" | "7013292" | "7024397" | "7024455" | "7038681" | "7039389" | "7039708" | "7047202" | "7050909" | "7068309" | "7069308" | "7072849" | "7076409" | "7076741" | "7079943" | "7080019" | "7080096" | "7084781" | "7085650" | "7099745" | "7099862" | "7117254" | "7130702" | "7135967" | "7136915" | "7138914" | "7155321" | "7155336" | "7158878" | "7171199" | "7174301" | "7177872" | "7178720" | "7184990" | "7188056" | "7188080" | "7188153" | "7201384" | "7209803" | "7218993" | "7228232" | "7233942" | "7249123" | "7249732" | "7251647" | "7254559" | "7269416" | "7269590" | "7272407" | "7289611" | "7293019" | "7296026" | "7306186" | "7324810" | "7343564" | "7353034" | "7353114" | "7353199" | "7359871" | "7359894" | "7373244" | "7375618" | "7376497" | "7379541" | "7383251" | "7386542" | "7389210" | "7402978" | "7412446" | "7424438" | "7424541" | "7426970" | "7433832" | "7433868" | "7437368" | "7441031" | "7444241" | "7447509" | "7447685" | "7447771" | "7454524" | "7475953" | "7477285" | "7477970" | "7478324" | "7480867" | "7483960" | "7487114" | "7496603" | "7496947" | "7500258" | "7505919" | "7505929" | "7520466" | "7525276" | "7532965" | "7539557" | "7548491" | "7561169" | "7561950" | "7562023" | "7565396" | "7570597" | "7580862" | "7581702" | "7587276" | "7596511" | "7599795").PN. OR ("7599935" | "7617048" | "7630802" | "7636687"					

		| "7640204" | "7650210" | "7658346" | "7668405" | "7669123" | "7674536" | "7680673" | "7680859" | "7683771" | "7693609" | "7693953" | "7698078" | "7702545" | "7725492" | "7734254" | "7740092" | "7751945" | "7751971" | "7761789" | "7778746" | "7792815" | "7796052" | "7797256" | "7801542" | "7802290" | "7808378" | "7809709" | "7809805" | "7810037" | "7812717" | "7823073" | "7827052" | "7827120" | "7827208" | "7827265" | "7831917" | "7840224" | "7840319" | "7840558" | "7848765" | "7850351" | "7853518" | "7853563" | "7860889" | "7869576" | "7870199" | "7873471" | "7881864" | "7885893" | "7886024" | "7894933" | "7894939" | "7894981" | "7904366" | "7913179" | "7925265" | "7933808" | "7933810" | "7945653" | "7949435" | "7949714" | "7956570" | "7958011" | "7961986" | "7962281" | "7966567" | "7969606" | "7970657" | "7979198" | "7980808" | "7986126" | "7991665" | "7991703" | "7996109" | "7996270" | "8006793" | "8010230" | "8027843" | "8027943" | "8036788" | "8046309" | "8050815" | "8051089" | "8054048" | "8060389" | "8060555" | "8064590" | "8065291" | "8072318" | "8073907" | "8095430" | "8103391" | "8103734" | "8107879" | "8108501" | "8112419" | "8117486" | "8136145" | "8139514" | "8145661" | "8145703" | "8149113" | "8167234" | "8171128" | "8190357" | "8190476" | "8195601" | "8195744" | "8204624" | "8204776" | "8204952" | "8223012" | "8225376" | "8229160" | "8229470" | "8249943"				

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L2166	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L2168	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L2169	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2170	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2171	247	(L4 L3) and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2172	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2173	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2174	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2175	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
L2176	33	"8050815"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2177	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L2178	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2179	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2180	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2181	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2182	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2025/02/19 12:49 PM

			JPO; DERWENT; IBM_TDB)				
L2183	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2184	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2185	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" | "20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" | "20030154213" | "20030158668" | "20030162523" | "20030177019" | "20030177192" | "20030182222" | "20030200192" | "20030218253" | "20030220807" | "20030222918" | "20030225632" | "20030225833" | "20040002871" | "20040003283" | "20040010358" | "20040021584" | "20040024846" | "20040030525" | "20040030741" | "20040039581").PN. OR ("20040044454" | "20040054428" | "20040056762" | "20040088177" | "20040109012"				

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		("2014/0309862" | "2014/0310031" | "2014/0310788" | "7006986" | "8050815" | "9373149").URPN.					
L2187	486	L21 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2188	2	L22 and L16	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2189	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2190	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM
L2191	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.					
L2192	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2193	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2194	58	L31 and (L29 L30) not L28	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2196	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2197	1	("20110060480").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L2198	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM

L2199	185	("2011/0060480").URPN.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2200	148011	(B60L53/665 or H04W4/02 or H04W4/029 or B60L53/68 or B60W40/08 or H04L67/06 or H04L67/10 or H04L67/306 or G06Q10/10 or G06Q10/20 or G06Q20/18 or G06Q30/00 or G06Q30/0643 or G06Q30/0645 or G06Q50/06 or G07F15/005 or G06F17/00 or G06Q20/325 or Y02T10/70 or Y02T10/72 or Y02T10/7072 or Y02T90/12 or Y02T90/167 or Y04S30/14 or B60L2240/70 or B60L2250/12 or B60L2250/16 or B60L2250/20 or B60W2040/0809 or Y02T90/16 or Y02T90/14 or G06Q20/308 or Y02T90/169).cpc.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2201	240	(transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2202	10	L40 and L37	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2203	106	L40 and L39	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2204	40	((transfer$4 sending sent receiv$4 transc$4) same (user driver) near4 (verify verification	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM

		identifier) same (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
L2205	116	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(USPAT)	OR	ON	ON	2025/02/19 12:49 PM
L2206	11148	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2208	1107	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2209	1107	(transfer$4 sending sent receiv$4 transc$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2025/02/19 12:49 PM

		near10 (user driver customer) near4 (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	JPO; DERWENT; IBM_TDB)				
L2210	45046	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customervehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2211	49186	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2212	73686	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		driver customer profile) near4 (verify verification identifier)					
L2213	13344	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2214	62773	(transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2215	2011	L52 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2216	15	L52 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2217	1208	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near4 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2218	6624	(vehicle truck car automobile) same2 (transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile setting preference) and (user driver customer profile) near4 (verify	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		verification identifier)					
L2220	2240	L58 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2221	130	L58 and L37	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2222	2437	(vehicle truck car automobile) Same (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2223	223	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2224	76	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		identifier)).ab.					
L2225	972	L61 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2226	609	(vehicle truck car automobile) Same (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2227	59	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2228	3037	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) with (setting preference temperature climate AC	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))					
L2229	1907	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2230	441	L68 and L39	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2232	343	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L2233	5	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2234	485	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2235	2985	("20010005829" |	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

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		("4052655" | "4102273" | "4119163" | "4132174" | "4161843" | "4162445" | "4309644" | "4347472" | "4375354" | "4383210" | "4389608" | "4405891" | "4433278" | "4450400" | "4532418" | "4556198" | "4779203" | "4789047" | "4815840" | "4914605" | "4996468" | "5006988" | "5032989" | "5049802" | "5050844" | "5121112" | "5132666" | "5184058" | "5199686" | "5202617" | "5208750" | "5297664" | "5306999" | "5315227" | "5325294" | "5327066" | "5343970" | "5372211" | "5422624" | "5434781" | "5441122" | "5449995" | "5487002" | "5488283" | "5492190" | "5521817" | "5548200" | "5549443" | "5555502" | "5563491" | "5572449" | "5577567" | "5581630" | "5584025" | "5585205" | "5590062" | "5594318" | "5595271" | "5596258" | "5612606" | "5617319" | "5627752" | "5630103" | "5636145" | "5642270" | "5666102" | "5671342" | "5691695" | "5694019" | "5701706" | "5720363" | "5736833" | "5751245" | "5760569" | "5774133" | "5778326" | "5790976" | "5793028" | "5794207" | "5805719" | "5805810" | "5819269" | "5826244" | "5826245" | "5831664" | "5835896" | "5838812" | "5852810" | "5870723" | "5883810" | "5892598" | "5903721" | "5904214" | "5905499" | "5907322" | "5916285" | "5917407" | "5926765" | "5930474" | "5937413" | "5940806" | "5974136" | "5991737" | "5991750" | "5993351" | "5998963" | "6014597" | "6024288" | "6029141" | "6029195" | "6034618" | "6036601" | "6047194" | "6047236" | "6048289" | "6049745"					

		| "6049778" | "6053842" | "6059263" | "6061660" | "6067008" | "6073138" | "6078906" | "6081205" | "6085131").PN. OR ("6088702" | "6092076" | "6092105" | "6101484" | "6104160" | "6108639" | "6122592" | "6134486" | "6148260" | "6148289" | "6151539" | "6175789" | "6175831" | "6199076" | "6225776" | "6226624" | "6229533" | "6234932" | "6236333" | "6236990" | "6252380" | "6267292" | "6269369" | "6285931" | "6301531" | "6307349" | "6308177" | "6310542" | "6317718" | "6330497" | "6330499" | "6332134" | "6336111" | "6339745" | "6351739" | "6356834" | "6370475" | "6373380" | "6381537" | "6401085" | "6405123" | "6408307" | "6416209" | "6429773" | "6434465" | "6445983" | "6453339" | "6456041" | "6466658" | "6470268" | "6480767" | "6480885" | "6487477" | "6487583" | "6498454" | "6498982" | "6505780" | "6507776" | "6511192" | "6513069" | "6519629" | "6532007" | "6542813" | "6542817" | "6542936" | "6557013" | "6586866" | "6587787" | "6597983" | "6600418" | "6611751" | "6614204" | "6615039" | "6622086" | "6629024" | "6629136" | "6633311" | "6636803" | "6640187" | "6643663" | "6646568" | "6647383" | "6654800" | "6658410" | "6662016" | "6672601" | "6677894" | "6680547" | "6684196" | "6687878" | "6691105" | "6691114" | "6711414" | "6716101" | "6719570" | "6721748" | "6727809" | "6728635" | "6741036" | "6741920" | "6745196" | "6750881" | "6765495" | "6766874" | "6766949" | "6789733"				

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L2236	3899	(vehicle truck car automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) near4 (module program engine) AND (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2237	2042	(vehicle truck car	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

		automobile) AND (user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L2238	121	(user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2239	16	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2240	113	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

L2241	87	(user driver customer) near3 (profile (user driver) near2(setting preference)) Near10 (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) Near10 (vehicle truck car automobile)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2242	1320018	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR G06Q20/308 OR Y02T90/169).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2243	46	L151 AND L149	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2244	268	((("PENILLA") near3 ("Angel")) OR (("PENILLA") near3 ("Albert"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2025/02/19 12:49 PM

L2246	1015069	(H04L67/06 or H04W4/02 or H04W4/029 or B60L53/68 or B60L58/12 or B60L53/665 or H04L67/306 or H04L67/10 or B60W40/08 or G06Q10/10 or G07F15/005 or G06Q50/06 or G06Q30/0645 or G06Q30/0643 or G06Q30/00 or G06Q20/18 or G06Q10/20 or G06Q20/325 or G06F17/00 or Y04S30/14 or Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2247	214849	(Y02T90/121 or Y02T10/7291 or Y02T90/169 or Y02T90/163 or Y02T10/7088 or B60L2250/20 or B60L2250/16 or B60L2250/12 or B60L2240/70 or B60W2040/0809 or Y02T90/128 or Y02T90/14 or Y02T90/16 or Y02T10/705 or Y02T10/7005 or Y02T10/7044).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2248	100	(L4 L3) and L2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2249	247	(L4 L3) and L1	(US-PGPUB; USPAT;	OR	ON	ON	2025/02/19

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:49 PM
L2250	42	L6 and L5	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2251	56212	(vehicle near10 (biometric face fingerprint voice) ner10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2252	63	L8 and L1 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2253	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2255	1	("8050815").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2025/02/19 12:49 PM
L2256	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2257	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		preferences)).clm.					
L2258	106	vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2259	217	vehicle with (biometric face fingerprint voice) with (profile account) and (user driver passenger) with (verif$4) with (profile account) and (profile account) with vehicle with (settings preferences)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2260	100	L16 and (L3 L4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2261	58	L16 and (L3 L4) not L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2262	16	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2263	1908	("20010005829" | "20010016795" | "20010020955" | "20010029426" | "20010029501" | "20010034724" | "20010036833" | "20010037721" | "20010042087" | "20010049616" | "20010049636" | "20020008645" | "20020019739" | "20020023018" | "20020026388" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/02/19 12:49 PM

		"20020029350" | "20020030689" | "20020038225" | "20020046131" | "20020046243" | "20020049617" | "20020059201" | "20020059379" | "20020065691" | "20020065739" | "20020070967" | "20020072848" | "20020077060" | "20020077901" | "20020078171" | "20020087260" | "20020087506" | "20020090996" | "20020091556" | "20020097267" | "20020099693" | "20020103813" | "20020103892" | "20020111988" | "20020124009" | "20020124053" | "20020130906" | "20020133292" | "20020143462" | "20020147638" | "20020156782" | "20020156917" | "20020160762" | "20020161666" | "20020169662" | "20020184496" | "20020188522" | "20030004802" | "20030005035" | "20030018521" | "20030023489" | "20030023586" | "20030033176" | "20030036958" | "20030036963" | "20030055983" | "20030061503" | "20030063072" | "20030064705" | "20030065716" | "20030069002" | "20030069693" | "20030078709" | "20030078897" | "20030088520" | "20030144005" | "20030145093" | "20030154020" |				

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		US-9104537-B1 OR US-9426225-B2 OR US-9365188-B1 OR US-20160080500-A1 OR US-20160318481-A1 OR US-9215274-B2 OR US-11738659-B2 OR US-20210394637-A1 OR US-11104245-B2 OR US-20200047714-A1 OR US-9663067-B2 OR US-20180134254-A1 OR US-20240171948-A1 OR US-20150304406-A1 OR US-9139091-B1 OR US-20160214535-A1 OR US-10286842-B2 OR US-9697503-B1 OR US-20170267214-A1 OR US-10407026-B2 OR US-11889394-B2 OR US-10071643-B2 OR US-9809196-B1 OR US-9467515-B1 OR US-9229623-B1 OR JP-2013039029-A OR US-9285944-B1 OR US-20170320398-A1 OR US-9802500-B1 OR US-20190196851-A1 OR US-20230202413-A1 OR US-10223134-B1 OR US-11734026-B2 OR CN-111907529-A OR US-10286798-B1).did.					
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		A1 OR US-20230077434-A1 OR US-11148658-B2 OR US-11396244-B2 OR US-20160104486-A1 OR US-10210487-B2 OR US-10652312-B2 OR US-20190190980-A1 OR US-20110137520-A1 OR US-9493130-B2 OR US-20140309866-A1 OR WO-2014172316-A1 OR US-11818538-B2 OR US-20210127438-A1 OR US-11546954-B2 OR US-20210204057-A1 OR US-10912135-B2 OR US-20200037379-A1 OR US-20240171948-A1 OR US-20230389095-A1 OR CN-113052648-A OR US-20210173532-A1 OR US-20190077346-A1 OR US-20220024446-A1 OR EP-3842937-B1 OR US-20180089912-A1 OR US-11889394-B2 OR US-20200391755-A1 OR US-10829068-B2 OR US-11358603-B2 OR US-6665600-B2 OR US-11794676-B1 OR US-20180188064-A1 OR US-20030195686-A1 OR DE-102018122188-A1 OR WO-2024010669-A1 OR WO-2013130036-A1 OR US-7477970-B2 OR US-8706349-B2).did.					
L2267	100414	(server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile) near8 (setting preference radio temperature seat near2	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		(position posture) entertainment customiz$4)					
L2268	30242	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2270	2274	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2271	2399	(Verif$4 access$4 authenticat$4) WITH (server remote cloud internet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane)					
L2272	1790	(Verif$8 access$4 authenticat$4) WITH (user driver passenger rider) WITH (profile) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane) AND (server remote cloud intemet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2273	2710178	(B60L53/665 OR B60L53/68 OR B60W40/08 OR G06F17/00 OR G06Q10/10 OR G06Q10/20 OR G06Q20/18 OR G06Q20/325 OR G06Q30/00 OR G06Q30/0643 OR G06Q30/0645 OR G06Q50/06 OR G07F15/005 OR H04L67/06 OR H04L67/10 OR H04L67/306 OR H04W4/02 OR H04W4/029 OR B60L2240/70 OR B60L2250/12 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM

		B60L2250/16 OR B60L2250/20 OR B60W2040/0809 OR Y02T10/70 OR Y02T10/7072 OR Y02T10/72 OR Y02T90/12 OR Y02T90/14 OR Y02T90/16 OR Y02T90/167 OR Y04S30/14 OR B60L53/67 OR B60L2240/68 OR B60L2240/72 OR B60L2240/80 OR B60W40/09 OR B60W2540/043 OR B60W2556/10 OR G06Q20/145 OR G06Q20/308 OR G08G1/205 OR H04L63/0861 OR H04W4/80 OR H04W12/06 OR H04W12/50).cpc.					
L2274	965	L1200 AND L1201	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 12:49 PM
L2277	250	("20020064258" OR "20020085043" OR "20020133273" OR "20030137277" OR "20030153278" OR "20030205619" OR "20030234325" OR "20040046506" OR "20040064235" OR "20040092253" OR "20040093155" OR "20040265671" OR "20050021190" OR "20050044245" OR "20050203752" OR "20050231119" OR "20060125620" OR "20060136106" OR "20060182241" OR "20060282381" OR "20060287783" OR "20070068714" OR "20070126395" OR "20070255464" OR	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/19 01:01 PM

		"20070282495" OR "20080039979" OR "20080039989" OR "20080040129" OR "20080040223" OR "20080040295" OR "20080052145" OR "20080086411" OR "20080097904" OR "20080150683" OR "20080155008" OR "20080180027" OR "20080203973" OR "20080228613" OR "20080275604" OR "20080281663" OR "20080294283" OR "20080312782" OR "20090011639" OR "20090021213" OR "20090021385" OR "20090030712" OR "20090043519" OR "20090058355" OR "20090066287" OR "20090076913" OR "20090082957" OR "20090091291" OR "20090092864" OR "20090144001" OR "20090157289" OR "20090164473" OR "20090174365" OR "20090177580" OR "20090210357" OR "20090287578" OR "20090312903" OR "20090313032" OR "20090313033" OR "20090313034" OR "20090313098" OR "20090313104" OR "20090313174" OR "20100013434" OR "20100017045" OR "20100017249" OR "20100049396" OR "20100049533" OR "20100049610" OR "20100049639" OR "20100049737" OR "20100057306" OR "20100112843" OR "20100141206" OR "20100161481" OR "20100161482" OR "20100169008" OR "20100178938" OR					

		"20100198508" OR "20100198513" OR "20100211340" OR "20100211643" OR "20100222939" OR "20100268426" OR "20100280956" OR "20100293607" OR "20100304349" OR "20110032110" OR "20110035031" OR "20110060480" OR "20110074350" OR "20110074351" OR "20110077809" OR "20110106329" OR "20110112969" OR "20110130885" OR "20110137520" OR "20110187521" OR "20110191265" OR "20110193522" OR "20110202218" OR "20110246252" OR "20110279083" OR "20110309929" OR "20120013300" OR "20120019204" OR "20120025765" OR "20120028680" OR "20120041624" OR "20120053754" OR "20120074903" OR "20120105197" OR "20120123670" OR "20120136743" OR "20120136802" OR "20120158244" OR "20120179323" OR "20120218128" OR "20120229056" OR "20120229085" OR "20120232965" OR "20120233077" OR "20120254948" OR "20120254960" OR "20120262002" OR "20120268068" OR "20120268076" OR "20120268242" OR "20120280654" OR "20120296512" OR "20120303397" OR "20120306445" OR "20120310713" OR "20120316671" OR "20130002876" OR "20130020139" OR					

		"20130021162" OR "20130037339" OR "20130099892" OR "20130103236" OR "20130110296" OR "20130110632" OR "20130110653" OR "20130127247" OR "20130135093" OR "20130144520" OR "20130145065" OR "20130179057" OR "20130204466" OR "20130241720" OR "20130253746" OR "20130280018" OR "20130300554" OR "20130317693" OR "20130317694" OR "20130321178" OR "20130328387" OR "20130338820" OR "20130342363" OR "20140002015" OR "20140019280" OR "20140021908" OR "20140042968" OR "20140047107" OR "20140066049" OR "20140089016" OR "20140106726" OR "20140118107" OR "20140120829" OR "20140125355" OR "20140129053" OR "20140142783" OR "20140163771" OR "20140163774" OR "20140164559" OR "20140172192" OR "20140172265" OR "20140172727" OR "20140179353" OR "20140200742" OR "20140203077" OR "20140207333" OR "20140214261" OR "20140214321" OR "20140218189" OR "20140232331" OR "20140236414" OR "20140236463" OR "20140253018" OR "20140277936" OR "20140278089" OR "3690397" OR "3799063" OR "3867682" OR					

		"4052655" OR "4102273" OR "4132174" OR "4162445" OR "4309644" OR "4347472" OR "4383210" OR "4389608" OR "4405891" OR "4433278" OR "4450400" OR "4532418" OR "4789047" OR "4815840" OR "5049802" OR "5121112" OR "5132666" OR "5184058" OR "5202617" OR "5297664" OR "5306999" OR "5315227" OR "5327066" OR "5343970" OR "5422624" OR "5434781" OR "5441122" OR "5449995" OR "5487002" OR "5488283" OR "5492190" OR "5548200" OR "5549443" OR "5555502" OR "5563491" OR "5585205" OR "5594318" OR "5595271" OR "5596258" OR "5612606" OR "5627752" OR "5636145" OR "5642270" OR "5666102" OR "5691695" OR "5694019" OR "5701706" OR "5734971" OR "5736833" OR "5760569" OR "5778326" OR "5790976").pn.					
L2278	125	("5892598" OR "5916285" OR "5974136" OR "5998963" OR "6014597" OR	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/19 01:01 PM

		"6049745" OR "6064996" OR "6067008" OR "6081205" OR "6085131" OR "6151539" OR "6175789" OR "6225776" OR "6234932" OR "6236333" OR "6252380" OR "6301531" OR "6307349" OR "6330497" OR "6330499" OR "6370475" OR "6373380" OR "6416209" OR "6434465" OR "6456041" OR "6466658" OR "6480767" OR "6487477" OR "6498454" OR "6511192" OR "6586866" OR "6614204" OR "6629024" OR "6727809" OR "6741036" OR "6765495" OR "6789733" OR "6794849" OR "6850898" OR "6915869" OR "6922629" OR "6937140" OR "6940254" OR "7013205" OR "7039389" OR "7084781" OR "7201384" OR "7269416" OR "7289611" OR "7376497" OR "7379541" OR "7402978" OR "7532965" OR "7565396" OR "7630802" OR "7650210" OR "7674536" OR "7683771" OR "7693609" OR "7698078" OR "7740092" OR "7751945" OR "7778746" OR					

		"7796052" OR "7850351" OR "7869576" OR "7885893" OR "7912625" OR "7949435" OR "7956570" OR "7979198" OR "7986126" OR "7991665" OR "8006793" OR "8027843" OR "8036788" OR "8054048" OR "8072318" OR "8089339" OR "8103391" OR "8256553" OR "8262268" OR "8265816" OR "8266075" OR "8294420" OR "8333492" OR "8336664" OR "8350526" OR "8366371" OR "8392065" OR "8405347" OR "8482255" OR "8483775" OR "8483907" OR "8490005" OR "8508188" OR "8521599" OR "8527135" OR "8527146" OR "8552686" OR "8589019" OR "8624719" OR "8630741" OR "8635091" OR "8643329" OR "8660734" OR "8686864" OR "8694328" OR "8706394" OR "8713121" OR "8717170" OR "8725551" OR "8737913" OR "8751065" OR "8751271" OR "8760432" OR "8799037" OR "8816845" OR "8818622" OR "8818725" OR "8819414" OR					

		"8825222" OR "8836281" OR "8943187" OR "8977408").pn.					
L2279	50	(Artificial Intelligence) Similar to: 17/873,096 with 0 CPC Selections and 0 Text Selections Text: (CN-111907529-A OR US-9371007-B1 OR US-20200350775-A1 OR US-9815382-B2 OR US-20160297316-A1 OR US-11427101-B2 OR US-10714955-B2 OR US-9718370-B2 OR JP-2020009422-A OR DE-102018131452-A1 OR US-20150038090-A1 OR US-20170120906-A1 OR US-9697733-B1 OR US-20140240089-A1 OR US-8874653-B2 OR WO-2010074856-A1 OR US-20200006975-A1 OR US-9396462-B2 OR AU-2021345497-A1 OR WO-2022056590-A1 OR US-10861066-B2 OR AU-2009330585-A1 OR US-20230365021-A1 OR US-20190300006-A1 OR US-20220016995-A1 OR WO-2019189253-A1 OR US-10988044-B2 OR JP-6389761-B2 OR US-20140006137-A1 OR US-20100161481-A1 OR CN-113165712-B OR EP-4033632-B1 OR US-20140142770-A1 OR EP-3293038-A1 OR US-20160339792-A1 OR JP-2024533966-A OR US-20180222340-A1 OR US-20150306967-A1 OR JP-2020167933-A OR US-20240217481-A1 OR US-20210139001-A1 OR US-10718630-B2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO))	OR	ON	ON	2025/02/19 01:05 PM

		US-20190178678-A1 OR EP-4033632-A1 OR EP-3822130-B1 OR US-11900487-B2 OR US-20210158633-A1 OR US-11023049-B2 OR US-20210158460-A1 OR DE-102014213499-A1).did.					
L2280	45	(Artificial Intelligence) Similar to: 17/873,096 with 0 CPC Selections and 1 Text Selection Text: (US-11716597-B2 OR US-20220252410-A1 OR CA-3127454-A1 OR US-11770705-B2 OR JP-2020009422-A OR TW-201812663-A OR US-11935144-B2 OR US-20130066731-A1 OR DE-102022211495-A1 OR US-20150038090-A1 OR US-20140240089-A1 OR US-8874653-B2 OR KR-20230157676-A OR KR-101774634-B1 OR GB-2564770-A OR US-20240010217-A1 OR JP-2024535139-A OR WO-2024010669-A1 OR TW-I570672-B OR US-9589263-B2 OR EP-3477607-B1 OR US-20230043018-A1 OR US-9596357-B1 OR NZ-529898-A OR CN-113850524-A OR TW-I642008-B OR TW-M560635-U OR US-10853776-B1 OR US-20150263791-A1 OR WO-2015138770-A1 OR CN-109774514-B OR CN-110009436-B OR WO-2015138626-A1 OR CN-109460991-A OR US-20220383366-A1 OR AU-2021102314-A4 OR US-11734733-B2 OR US-20170176239-A1 OR WO-2006053149-A2 OR US-9736628-B2	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO))	OR	ON	ON	2025/02/19 01:07 PM

		OR US-20150379506-A1 OR CN-105978114-A OR KR-102577422-B1 OR US-20210129993-A1 OR US-11077945-B2 OR US-20150235256-A1 OR CN-114707994-A OR WO-2008112402-A1 OR US-20210095985-A1 OR US-20230389095-A1).did.					
L2281	4	(compat$6 incompat$6) near6 (vehicle automobile) near3 (type model make) WITH (setting prefer$6) AND (profile) near4 (user driver) WITH (setting prefer$6)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 01:15 PM
L2282	78	(compat$6 incompat$6) WITH (vehicle automobile) near3 (type model make) WITH (setting prefer$6) AND (profile) near4 (user driver) WITH (setting prefer$6)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 01:16 PM
L2283	78	(compat$6 incompat$6) WITH (vehicle automobile) near3 (type model make) WITH (setting prefer$6) AND (profile vita) near4 (user driver) WITH (setting prefer$6)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 01:17 PM
L2284	78	(compat$6 incompat$6) WITH (vehicle automobile) near3 (type model make) WITH (setting prefer$6) AND (profile vita usemame user near2 name) near4 (user driver) WITH (setting prefer$6)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 01:18 PM
L2285	30	((EP-908339-A1 OR US-20140310788-A1).did. AND DWPI.dbnm.) OR ((US-20140310788-A1 OR US-20150203125-A1 OR US-20140310031-A1 OR US-20120087634-A1 OR US-20140309862-A1	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 01:21 PM

		OR US-20090204316-A1 OR US-20090150167-A1 OR US-20150210287-A1 OR US-20150304406-A1 OR US-20130090781-A1 OR US-20070207789-A1 OR US-20090144622-A1 OR US-20110060480-A1).did. AND PGPB.dbnm.) OR ((US-9171268-B1 OR US-9372607-B1 OR US-7006986-B1 OR US-9373149-B2 OR US-9229905-B1 OR US-9684911-B2 OR US-8209436-B2 OR US-8463488-B1 OR US-8768313-B2 OR US-6155954-A OR US-10699323-B1 OR US-9139091-B1 OR US-9104537-B1 OR US-8050815-B2 OR US-6064996-A).did. AND USPT.dbnm.)					
L2286	1	((compat$6 incompat$6) WITH (vehicle automobile) near3 (type model make) WITH (setting prefer$6) AND (profile vita username user near2 name) near4 (user driver) WITH (setting prefer$6)).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/02/19 01:21 PM
L2287	677	(L2274 "L2275") AND (L2284 L2273)	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/19 01:30 PM
L2288	677	(L2274) AND (L2284 L2273)	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/19 01:30 PM
L2289	72	(L2274) AND (L2284)	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/19 01:30 PM
L2290	78	(L2273) AND (L2284)	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/19 01:31 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N24	9	(vehicle near10 (biometric face fingerprint voice) near10 (profile account)	(US-PGPUB; USPAT)	OR	ON	ON	2019/09/28 07:08 PM

		and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.					
N25	9	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2019/09/28 07:09 PM
N26	451	("20020064258" | "20020085043" | "20020133273" | "20030065805" | "20030137277" | "20030153278" | "20030204290" | "20030205619" | "20030220835" | "20030234325" | "20040046506" | "20040059471" | "20040064235" | "20040078655" | "20040092253" | "20040093155" | "20040265671" | "20050021190" | "20050035741" | "20050044245" | "20050110460" | "20050231119" | "20060125620" | "20060182241" | "20060197677" | "20060282381" | "20060287783" | "20070068714" | "20070126395" | "20070238491" | "20070282495" | "20080039979" | "20080039989" | "20080040129" | "20080040223" | "20080040295" | "20080052145" | "20080086411" | "20080097904" |	(US-PGPUB; USPAT)	OR	ON	ON	2019/09/28 07:21 PM

		"20080155008" | "20080180027" | "20080203973" | "20080228613" | "20080281663" | "20080294283" | "20080312782" | "20090011639" | "20090021213" | "20090021385" | "20090030712" | "20090043519" | "20090058355" | "20090066287" | "20090076913" | "20090082957" | "20090091291" | "20090092864" | "20090144001" | "20090157289" | "20090164473" | "20090174365" | "20090177580" | "20090210357" | "20090287578" | "20090304101" | "20090312903" | "20090313032" | "20090313033" | "20090313034" | "20090313098" | "20090313104" | "20090313174" | "20100013434" | "20100017045" | "20100017249" | "20100037057" | "20100049396" | "20100049533" | "20100049610" | "20100049639" | "20100049737" | "20100057306" | "20100112843" | "20100114469" | "20100141206" | "20100161481" | "20100161482" | "20100169008" | "20100198508" | "20100198513" | "20100211340" | "20100211643" | "20100222939").PN. OR ("20100268426" | "20100280956" | "20100304349" | "20110032110"				

		"20110074350" | "20110074351" | "20110077809" | "20110106329" | "20110112969" | "20110130885" | "20110187521" | "20110191265" | "20110193522" | "20110202218" | "20110246252" | "20110279083" | "20110307143" | "20110309929" | "20120013300" | "20120019204" | "20120025765" | "20120028680" | "20120041624" | "20120053754" | "20120074903" | "20120105197" | "20120123670" | "20120136743" | "20120136802" | "20120158244" | "20120179323" | "20120218128" | "20120229056" | "20120229085" | "20120232965" | "20120233077" | "20120262002" | "20120268068" | "20120268076" | "20120268242" | "20120280654" | "20120296512" | "20120303397" | "20120306445" | "20120310713" | "20120316671" | "20120330494" | "20130002876" | "20130020139" | "20130021162" | "20130031318" | "20130037339" | "20130099892" | "20130103236" | "20130110296" | "20130110632" | "20130110653" | "20130127247" | "20130135093" | "20130144520" | "20130145065" | "20130179057"				

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N35	10	(vehicle near10 (biometric face fingerprint voice) near10 (profile account) and (user driver passenger) near10 (verif$4) near10 (profile account) and (profile account) near10 vehicle near10 (settings preferences)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2020/01/06 04:08 PM
N75	236	((transfer$4 sending sent receiv$4 transc$4) and (user driver) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 07:32 PM
N76	96	((transfer$4 sending sent receiv$4 transc$4) near10 (user driver customer) near4 (profile information prefrence setting) and (user driver customer profile) near4 (verify verification identifier) and (vehicle auto car truck automobile) near4	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 07:34 PM

		(setting preference temperature climate AC air adj1 conditioner airconditioner radio volume seat near2 (position setting))).clm.					
N77	154	((vehicle truck car automobile) and (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 08:25 PM
N78	46	((vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification identifier)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 08:34 PM
N79	672	(vehicle truck car automobile) and (server remote$4 cloud internet) near8 (transfer$4 sending sent receiv$4 transc$4) near6 (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (user driver customer profile) near3 (verify verification	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 08:38 PM

		identifier).clm.					
N80	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (apply$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 10:15 PM
N81	4	((vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 10:16 PM

N82	314	(vehicle truck car automobile) and (user driver customer) near3 (profile setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (learn$3 teach$4) near4 (module program engine) near10 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) and (appl$4 enact$4) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4))	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/01 10:16 PM
N83	8	((user driver customer) near3 (profile (user driver) near2(setting preference)) WITH (restrict$3 deny$3 denial) near8 (setting preference temperature climate AC air adj1 conditioner airconditioner radio volume (seat chair) near2 (position setting reclin$4)) WITH (vehicle truck car automobile)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2021/11/15 06:45 PM
N84	58	((Verif$8 access$4 authenticat$4) WITH (user driver passenger rider) WITH (profile) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane) AND (server remote cloud intemet database) WITH (user driver passenger rider) WITH (setting preference radio temperature seat	(US-PGPUB; USPAT)	OR	ON	ON	2024/08/14 03:27 PM

		near2 (position posture) entertainment customiz$4) AND (profile (user driver passenger) near4 (associat$4 link$4)) near8 (setting preference radio temperature seat near2 (position posture) entertainment customiz$4) WITH (vehicle autombile truck lorrey lorey car aircraft airplane aeroplane)).clm.					
N85	1	((compat$6 incompat$6) WITH (vehicle automobile) near3 (type model make) WITH (setting prefer$6) AND (profile vita username user near2 name) near4 (user driver) WITH (setting prefer$6)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2025/02/19 01:21 PM

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	17/873,096
				Filing Date	July 25, 2022
				First Named Inventor	Angel Penilla
				Art Unit	
				Examiner Name	Frederick M. Brushaber
				Attorney Docket Number	VOLTP018.5.1.C4

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				Examiner Name	Frederick M. Brushaber
				Attorney Docket Number	VOLTP018.5.1.C4

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				First Named Inventor	Angel Penilla
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				Examiner Name	Frederick M. Brushaber
				Attorney Docket Number	VOLTP018.5.1.C4

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				Art Unit	
				Examiner Name	Frederick M. Brushaber
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Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*	*Complete if Known*	
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	First Named Inventor	Angel Penilla
	Art Unit	
	Examiner Name	Frederick M. Brushaber
	Attorney Docket Number	VOLTP018.5.1.C4

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1 **2025-02-19 18:04 UTC | 41,334,911 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text

A cloud-based system including one or more data centers, and each data center of the cloud-based system includes one or more servers, wherein some of said one or more servers have program instructions for enabling connections with vehicles and providing services to vehicles, wherein one service includes enabling access to settings associated with profiles of user accounts of the cloud-based system, comprising:a server for receiving a request from a vehicle to access a profile for a user account, the request identifies user information related to a user;a server for processing at least part of the user information to verify the access, the profile having a plurality of settings of the user preferred for the vehicle havinq a vehicle type, at least part of the plurality of settings of the profile being stored on storage accessible to said one or more servers; and a server for transferring, upon verification of the user information and based on determining settings that are compatible, by said server, for said vehicle type, one or more settings of the plurality of settings to the vehicle, the transferring is configured to instruct software and hardware associated the

vehicle to enable said one or more settings on [[one]] the vehicle for customizing said vehicle for the user, the request and the transferring being via wireless communication of said vehicle.

Concept Modifiers: None

Filters: None

2 **2025-02-19 18:04 UTC | 45,558,040 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
A cloud services system including a server for interfacing with one or more vehicles, comprising:the server receives a request from electronics of a vehicle to access a profile for a user account, the request includes an identifier for a user to use the vehicle;the server processes data related to the identifier to verify the user for accessing the profile associated with the user account, the profile having a plurality of settings of the user desired for the vehicle, wherein at least part of the plurality of settings for the profile being stored on storage accessible to the cloud services system; andthe server performs processing to determine incompatibility of one or more of the plurality of settings of the user based on a type of the vehicle, and the server transfers one or more settings of the plurality of settings to storage of the vehicle, the transferring is configured to instruct software and/or hardware associated with said electronics of the vehicle to apply said one or more settings to the vehicle for customizing said vehicle to use said one or more settings associated with the profile,wherein the vehicle uses wireless communication for exchanging data with the cloud services system and for receiving said one or more settings associated with the profile;wherein the request is automatically generated by the electronics of the vehicle upon pairing a user device of the user with the electronics of the vehicle;wherein the server is one or more servers of the cloud services system, the cloud services system is part of one or more data centers used for receiving and sending data to from and to said one more vehicles.

Concept Modifiers: None

Filters: None

TO: pipdocket@penillaip.com,efrain@penillaip.com
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - Correspondence Notification for Customer Number 25920

Wed Feb 26 05:02:54 EST 2025

Dear Patent Center Customer:

Correspondence Address:

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley,CALIFORNIA,95066
UNITED STATES

This is a courtesy notification regarding the following USPTO patent application(s) associated with your Customer Number, 25920, that have new outgoing correspondence. This correspondence is now available for viewing in Patent Center.

The official date of notification of the outgoing correspondence will be indicated on the form (e.g., PTOL-90) accompanying the correspondence.

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Application	Document	Mailroom Date	Attorney Docket No.
17873096	NOA	02/26/2025	VOLTP018.5.1.C4
17873096	892	02/26/2025	VOLTP018.5.1.C4
17873096	1449	02/26/2025	VOLTP018.5.1.C4

To view your correspondence online, please sign in to Patent Center and then select Workbench/View correspondence. To update your email address(es), select Manage/Manage customer numbers.

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The Patent Center Team

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/873,096	**05/22/2025 01:49:52 PM Z ET**	**VOLTP018.5.1.C4**

Title of Invention

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1006	FILED BY	Albert Penilla
PATENT CENTER #	70544865	FILING DATE	07/25/2022
CUSTOMER #	25920	FIRST NAMED INVENTOR	Angel A. Penilla
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 0

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C.

371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/873,096	**05/22/2025 01:49:52 PM Z ET**	**VOLTP018.5.1.C4**

Title of Invention

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1006	FILED BY	Albert Penilla
PATENT CENTER #	70544865	AUTHORIZED BY	-
CUSTOMER #	25920	FILING DATE	07/25/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Angel A. Penilla

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 500805	**E20255LD50169557**	**Albert Penilla**

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
500805	**37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2501	UTILITY ISSUE FEE	516.00	1	516.00
			TOTAL AMOUNT:	**$516.00**

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/873,096	**05/22/2025 01:43:40 PM Z ET**	**VOLTP018.5.1.C4**

Title of Invention

SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1006	FILED BY	Albert Penilla
PATENT CENTER #	70544681	FILING DATE	07/25/2022
CUSTOMER #	25920	FIRST NAMED INVENTOR	Angel A. Penilla
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
VOLTP018_5_1_C4 _IssueFee_Efiled.pdf	1	Issue Fee Payment (PTO-85B)	163 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
VOLTP018_5_1_C4 _IssueFee_Efiled.pdf	C400794D23AA9DC7CD959A809C0964F5FF7CB1BC6070DF89 E8178082819BA199B4AE7AAAABD3AB4BB98109CFDD516368 2173BC353E940696D86750B40FB2540E

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
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Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

25920 7590 02/26/2025
PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

Albert S. Penilla	(Typed or printed name)
/Albert Penilla/	(Signature)
May 22, 2025	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,096	07/25/2022	Angel A. Penilla	VOLTP018.5.1.C4	1006

TITLE OF INVENTION: SYSTEMS FOR TRANSFERRING USER PROFILES BETWEEN VEHICLES USING CLOUD SERVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$516	$0.00	$0.00	$516	05/27/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
BRUSHABER, FREDERICK M	3665	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Emerging Automotive, LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Scotts Valley, CA

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via the USPTO patent electronic filing system ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-0805

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☐ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Albert Penilla/ Date May 22, 2025

Typed or printed name /Albert Penilla/ Registration No. 39,487

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	17/873,096
				Filing Date	July 25, 2022
				First Named Inventor	Angel Penilla
				Art Unit	
				Examiner Name	Frederick M. Brushaber
				Attorney Docket Number	VOLTP018.5.1.C4

	2/25/2014	US8660734	Jiajun Zhu, et al.	341
	4/1/2014	US8686864	Marwan Hannon	342
	4/8/2014	US8694328	Joseph Gormley	343
	4/22/2014	US8706394	Paul Trepagnier, et al.	344
	4/29/2014	US8713121	David Bain	345
	5/6/2014	US8717170	Bradley Juhasz	346
	5/13/2014	US8725551	Ronald Ambrosio, et al.	347
	6/10/2014	US8751065	Kenji Kato	348
	6/10/2014	US8751271	Mark Jeffrey Stefik, et al.	349
	6/24/2014	US8760432	Joseph Charles Jira, et al.	350
	8/5/2014	US8799037	Mark Jeffrey Stefik, et al.	351
	8/26/2014	US8816845	Scott J. Hoover, et al.	352
	8/26/2014	US8818622	Ralf Bergholz, et al.	353
	8/26/2014	US8818725	Christopher P. Ricci	354
	8/26/2014	US8819414	Bhargav R. Bellur et al.	355
	9/2/2014	US8825222	Setu Madhavi Namburu et al.	356
	9/16/2014	US8836281	Ronald Ambrosio et al.	357
	3/10/2015	US8977408	Cazanas et al.	359
	4/25/2013	US20130099892	Tucker et al.	360
	11/6/2008	US20080275604	Perry et al.	361
	6/26/2008	US20080150683	Mikan et al.	362
	10/4/2012	US20120254948	Kleve et al.	363
	5/12/2011	US20110112969	Zaid et al.	364
	3/10/2011	US20110060480	Mottla et al.	365
	9/15/2005	US20050203752	Shinada	366
	05/2014 ~~12/22/2010~~	US8737913	Xiao et al.	367
	03/2011 ~~4/29/2008~~	US7912625	Cahoon et al.	368
	05/2014 ~~11/7/2012~~	US20140129053	Kleve et al.	369
	12/2013 ~~5/29/2012~~	US20130321178	Jameel et al.	370
	10/2012 ~~3/31/2011~~	US20120254960	Lortz et al.	371
	11/2010 ~~5/14/2009~~	US20100293607	Hall et al.	372
	01/2015 ~~1/7/2013~~	US8943187	Saylor	373
	7/15/2010	US 20100178938	Ingrassia et al.	374
	6/22/2006	US 20060136106	Patenaude et al.	375
	11/1/2007	US 20070255464	Singh et al.	376
	3/31/1998	US 5734971	Thayer et al.	377
	5/16/2000	US 6064996	Yamaguchi et al.	378
	1/3/2012	US 8089339	Mikan et al.	379
	2/10/2011	US20110035031A1	Faenger	380
	6/9/2011	US20110137520A1	Rector	381

Change(s) applied to document, /S.H./ 3/4/2025

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /F.M.B/

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				*Complete if Known*	
				Application Number	17/873,096
				Filing Date	July 25, 2022
				First Named Inventor	Angel Penilla
				Art Unit	
				Examiner Name	Frederick M. Brushaber
				Attorney Docket Number	VOLTP018.5.1.C4

Change(s) applied to document, /S.H./ 3/5/2025

	05/2014 ~~1/14/2003~~	US20140129053A1	~~Yassin~~ Kleve et al.	382
	6/22/2006	US20060136106A	Patenaude	383
				384
				385
				386
				387
				388
				389
				390
				391
				392

Foreign Patent Citations

Examiner Initial	Patent No./Appln.	**Filing/Publication/ Issue Date**	**Inventor(s)**	Country
	2009293283	Published Dec. 17, 2009	Mimura	JP
	2012-76627A	filed Oct. 1, 2010, and published Apr. 19, 2012	Hayashi	JP
	2010-126949A	Nov. 26, 2008 / June 10, 2010 / Sept. 25, 2013	Sekiyama et al.	JP
	2004-190233A	Dec. 6, 2002 / July 8, 2004 / July 5, 2006	Nomura et al.	JP
	2004-088339A	Aug. 26, 2002 / Mar. 18, 2004	Umeda et al.	JP

/FREDERICK M BRUSHABER/ 02/19/2025

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,096	06/24/2025	12337716	VOLTP018.5.1.C4	1006

25920 7590 06/11/2025

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 180 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (https://patentcenter.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Angel A. Penilla, Sacramento, CA;
Albert S. Penilla, Santa Cruz, CA;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

Emerging Automotive, LLC, Los Altos, CA;

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TO: pipdocket@penillaip.com,efrain@penillaip.com
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - Correspondence Notification for Customer Number 25920

Thu Jun 12 05:07:33 EDT 2025

Dear Patent Center Customer:

Correspondence Address:

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley,CALIFORNIA,95066
UNITED STATES

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Application	Document	Mailroom Date	Attorney Docket No.
17873096	ISSUE.NTF	06/11/2025	VOLTP018.5.1.C4

To view your correspondence online, please sign in to Patent Center and then select Workbench/View correspondence. To update your email address(es), select Manage/Manage customer numbers.

If you have any questions, please contact the Patent Electronic Business Center (EBC) at ebc@uspto.gov or 866-217-9197 Monday – Friday, 6 a.m. to midnight ET.

Please do not reply to this email as it was sent from an unmonitored mailbox.

Sincerely,

The Patent Center Team

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,096	07/25/2022	Angel A. Penilla	VOLTP018.5.1.C4	1006

25920 7590 06/24/2025

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
SUITE 280
Scotts Valley, CA 95066

EXAMINER	
BRUSHABER, FREDERICK M	

ART UNIT	PAPER NUMBER
3665	

NOTIFICATION DATE	DELIVERY MODE
06/24/2025	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efrain@penillaip.com
pipdocket@penillaip.com

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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APPLICATION NO.	ISSUE DATE	PATENT NO.
17/873,096	24-Jun-2025	12337716

PENILLA IP, APC - PATENT LAW
5619 Scotts Valley Drive
Scotts Valley, CA 95066

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants

TO: pipdocket@penillaip.com,efrain@penillaip.com
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - eGrant Notification for Customer Number 25920

Tue Jun 24 06:01:59 EDT 2025

Dear Patent Center Customer:

Correspondence Address:

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Scotts Valley,CALIFORNIA,95066
UNITED STATES

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