PTO/AIA/15 (10-17)
Approved for use through 11/30/2017. 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 displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	9466-24TSCT3
First Named Inventor	Peter D. Karabinis
Title	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERIO
Priority Mail Express® Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☐ **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. ☑ **Applicant asserts small entity status.** See 37 CFR 1.27
3. ☐ **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. ☑ **Specification** [*Total Pages* 22] Both the claims and abstract must start on a new page. *(See MPEP § 608.01(a) for information on the preferred arrangement)*
5. ☑ **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 3]
6. **Inventor's Oath or Declaration** [*Total Pages* 2] *(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))*
   a. ☐ Newly executed (original or copy)
   b. ☑ A copy from a prior application (37 CFR 1.63(d))
7. ☑ **Application Data Sheet** ** See note below.* See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** In duplicate, large table, or Computer Program (*Appendix*)
   ☐ Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission** (*if applicable, items a. – c. are required*)
   a. ☐ Computer Readable Form (CRF)
   b. ☐ Specification Sequence Listing on:
      i. ☐ CD-ROM or CD-R (2 copies); or
      ii. ☐ Paper
   c. ☐ Statements verifying identity of above copies

ADDRESS TO:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

ACCOMPANYING APPLICATION PAPERS

10. ☐ **Assignment Papers** (cover sheet & document(s))
    Name of Assignee _____
11. ☐ **37 CFR 3.73(c) Statement** (*when there is an assignee*) ☑ **Power of Attorney**
12. ☐ **English Translation Document** (*if applicable*)
13. ☑ **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    ☐ Copies of citations attached
14. ☐ **Preliminary Amendment**
15. ☐ **Return Receipt Postcard** (*MPEP § 503*) (*Should be specifically itemized*)
16. ☐ **Certified Copy of Priority Document(s)** (*if foreign priority is claimed*)
17. ☐ **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. ☑ **Other:** REMARKS ACCOMPANYING CONTINUATION APPLICATION

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

☑ The address associated with Customer Number: 20792 **OR** ☐ Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	Vernon Guthrie	Date	January 18, 2019
Name (Print/Type)	Vernon H. Guthrie	Registration No. (Attorney/Agent)	63,798

This collection of information is required by 37 CFR 1.53(b). 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 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.**

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

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
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 displays a valid OMB control number.

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	To Be Assigned
Filing Date	Concurrently Herewith
First Named Inventor	PETER D. KARABINIS
Title	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
Art Unit	
Examiner Name	
Attorney Docket Number	9466-24TSCT3

SIGNATURE of Applicant or Patent Practitioner

Signature		Date (Optional)	January 18, 2019
Name	Vernon H. Guthrie	Registration Number	63,798
Title (if Applicant is a juristic entity)	Patent Attorney		
Applicant Name (if Applicant is a juristic entity)	Telcom Ventures, LLC		

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 1 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.

Doc Code: PA..

Document Description: Power of Attorney

PTO/AIA/82B(07-12)
Approved for use through 11/30/2014. OMB 0651-0035
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 displays a valid OMB control number.

POWER OF ATTORNEY BY APPLICANT

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

☒ I hereby appoint 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 equivalent):

20792

OR

☐ I hereby appoint Practitioner(s) named below 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 equivalent):

Name	Registration Number	Name	Registration Number

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

☒ The address associated with the above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

OR

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

I am the Applicant:

☐ Inventor or Joint Inventor

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor

☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign

☐ 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)

SIGNATURE of Applicant for Patent

Signature	Rajendra Singh	Date	2/7/2013
Name	Rajendra Singh	Telephone	703-447-2788
Title and Company	Chairman, Telcom Ventures, L.L.C.		

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. Submit multiple forms for more than one signature, see below *.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 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.

Attorney Docket No. 9466-24TSCT3 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Karabinis et al.
Application No.: To Be Assigned
Filed: Concurrently Herewith
For: MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Date: January 18, 2019

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REMARKS ACCOMPANYING CONTINUATION APPLICATION

The present continuation application is being filed for Claims 61-68 of U.S. Application No. 15/800,885 ("parent application"), to which the present application claims priority. Claims 61-68 were canceled by an Examiner's Amendment in the parent application and have been renumbered herein as Claims 1-8, respectively.

In the present application, the "Cross-Reference" section has been updated, along with the addition of Claims 1-8. The specification and drawings are otherwise identical to the parent application.

In view of the above, Applicant requests examination and allowance of the present application. If, in the opinion of the Examiner, a telephonic conference would expedite the examination of this matter, the Examiner is invited to call the undersigned attorney at (919) 854-1400.

Respectfully submitted,



Vernon H. Guthrie
Registration No. 63,798
Attorney for Applicant

Customer Number 20792
Myers Bigel, P.A.
P.O. Box 37428
Raleigh, NC 27627

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. 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	9466-24TSCT3
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

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
	Peter	D.	Karabinis	

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

City	State/Province	Country of Residence
Cary	NC	US

Mailing Address of Inventor:

Address 1	101 Chalon Drive
Address 2	
City	Cary
State/Province	NC
Postal Code	27511
Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Rajendra		Singh	

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

City	State/Province	Country of Residence
Indian Creek Village	FL	US

Mailing Address of Inventor:

Address 1	23 Indian Creek Island Road
Address 2	
City	Indian Creek Village
State/Province	FL
Postal Code	33154
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 (02-18)
Approved for use through 11/30/2020. 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	9466-24TSCT3
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

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

Customer Number	20792		
Email Address	instructions@myersbigel.com	Add Email	Remove Email

Application Information:

Title of the Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION		
Attorney Docket Number	9466-24TSCT3	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	3	**Suggested Figure for Publication (if any)**	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

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	20792		

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	9466-24TSCT3
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim 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.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)	
	Continuation of	15/800885	2017-11-01	

Prior Application Status	Patented					Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)	
15/800885	Continuation of	15/251882	2016-08-30	9832708	2017-11-28	

Prior Application Status	Patented					Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)	
15/251882	Continuation of	12/264711	2008-11-04	9462411	2016-10-04	

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 priority to a foreign application. 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. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

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

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. 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	9466-24TSCT3
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. 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	9466-24TSCT3
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. 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	9466-24TSCT3
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 — Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Telcom Ventures, LLC		
Mailing Address Information For Applicant:			
Address 1	200 South Biscayne Blvd.		
Address 2	Suite 2790		
City	Miami	**State/Province**	FL
Country	US	Postal Code	33131
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. 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	9466-24TSCT3
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Vernon H. Guthrie/			Date (YYYY-MM-DD)	2019-01-18
First Name	Vernon H.	Last Name	Guthrie	Registration Number	63798

Additional Signature may be generated within this form by selecting the Add button. Add

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. 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	9466-24TSCT3
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION	

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

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 CooperationTreaty.

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.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	**MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION**

As a 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 _____,
- ☐ As amended on _____ (if applicable).

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 have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part 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.

LEGAL NAME OF INVENTOR

Signature: _____ Date: 7/26/2016

Legal Name: **PETER D. KARABINIS**

APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

As a 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 _____,
As amended on _____ (if applicable).

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 have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part 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.

LEGAL NAME OF INVENTOR 2

Signature: Rajendra Singh Date: JULY 26, 2016

Legal Name: **RAJENDRA SINGH**

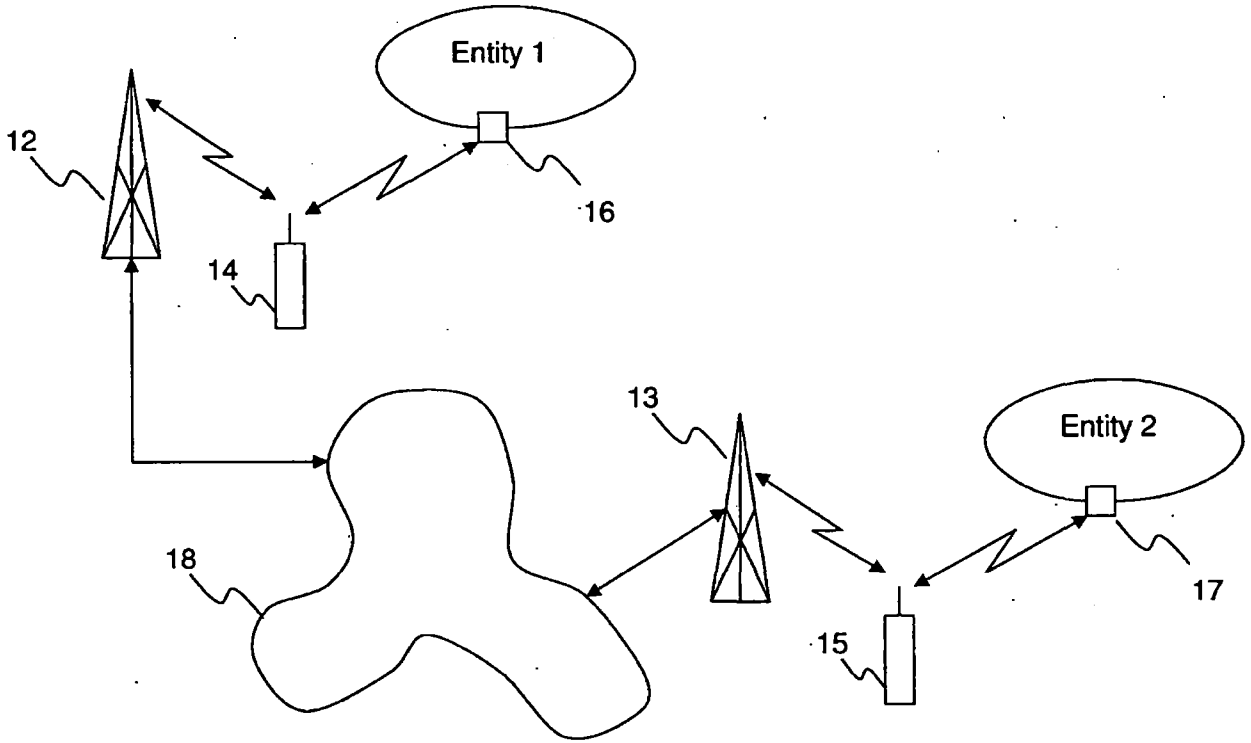


FIG. 1

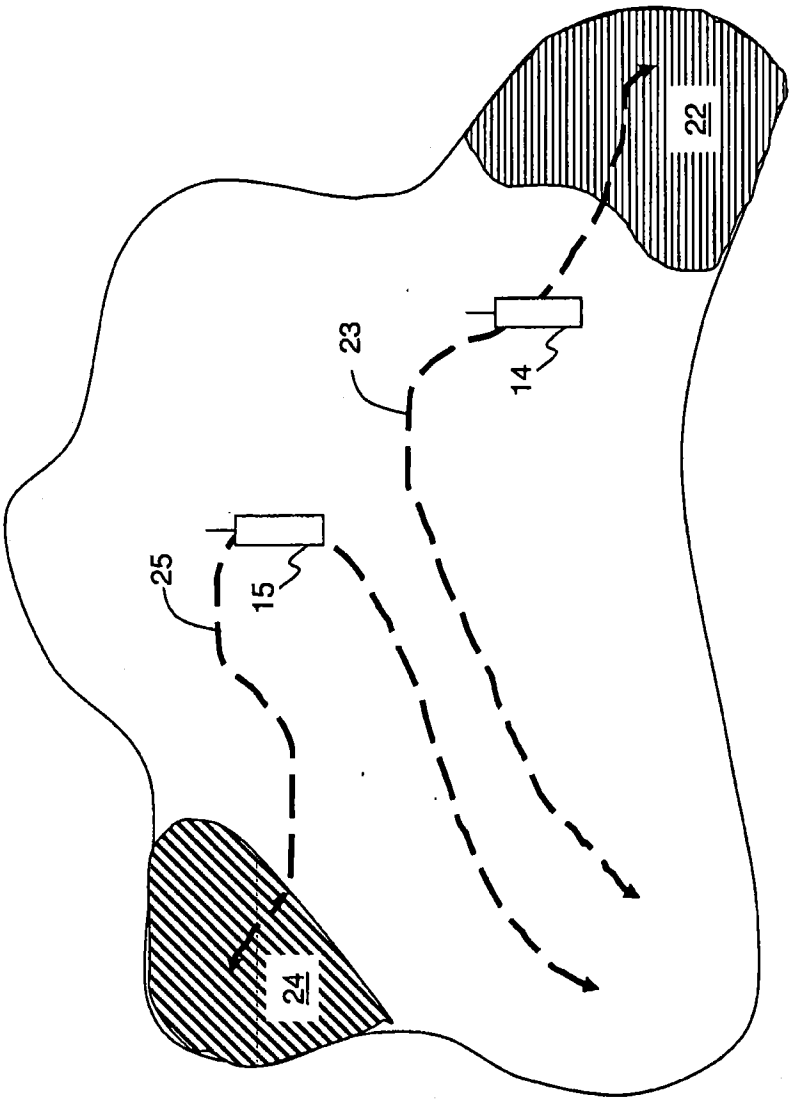
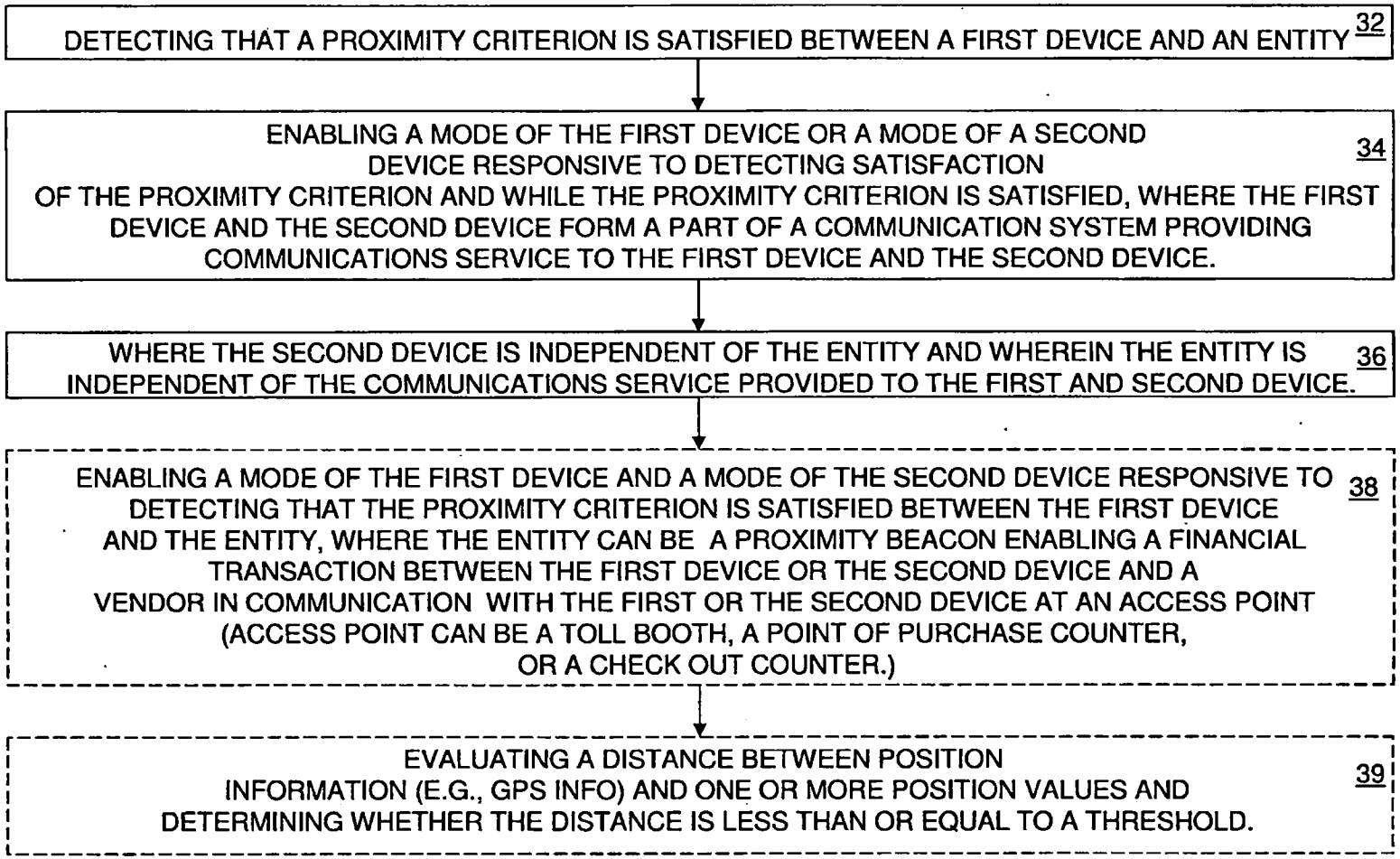


FIG. 2

FIG. 3 30


DETECTING THAT A PROXIMITY CRITERION IS SATISFIED BETWEEN A FIRST DEVICE AND AN ENTITY 32
ENABLING A MODE OF THE FIRST DEVICE OR A MODE OF A SECOND DEVICE RESPONSIVE TO DETECTING SATISFACTION OF THE PROXIMITY CRITERION AND WHILE THE PROXIMITY CRITERION IS SATISFIED, WHERE THE FIRST DEVICE AND THE SECOND DEVICE FORM A PART OF A COMMUNICATION SYSTEM PROVIDING COMMUNICATIONS SERVICE TO THE FIRST DEVICE AND THE SECOND DEVICE. 34
WHERE THE SECOND DEVICE IS INDEPENDENT OF THE ENTITY AND WHEREIN THE ENTITY IS INDEPENDENT OF THE COMMUNICATIONS SERVICE PROVIDED TO THE FIRST AND SECOND DEVICE. 36
ENABLING A MODE OF THE FIRST DEVICE AND A MODE OF THE SECOND DEVICE RESPONSIVE TO DETECTING THAT THE PROXIMITY CRITERION IS SATISFIED BETWEEN THE FIRST DEVICE AND THE ENTITY, WHERE THE ENTITY CAN BE A PROXIMITY BEACON ENABLING A FINANCIAL TRANSACTION BETWEEN THE FIRST DEVICE OR THE SECOND DEVICE AND A VENDOR IN COMMUNICATION WITH THE FIRST OR THE SECOND DEVICE AT AN ACCESS POINT (ACCESS POINT CAN BE A TOLL BOOTH, A POINT OF PURCHASE COUNTER, OR A CHECK OUT COUNTER.) 38
EVALUATING A DISTANCE BETWEEN POSITION INFORMATION (E.G., GPS INFO) AND ONE OR MORE POSITION VALUES AND DETERMINING WHETHER THE DISTANCE IS LESS THAN OR EQUAL TO A THRESHOLD. 39

MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Cross-Reference to Related Application

[0001] The present application is a continuation of Application No. 15/800,885, filed November 1, 2017, which is itself a continuation of Application No. 15/251,882, filed August 30, 2016, now U.S. Patent No. 9,832,708, which is itself a continuation of Application No. 12/264,711, filed November 4, 2008, now U.S. Patent No. 9,462,411, entitled *"Mobile Device Mode Enablement Responsive to a Proximity Criterion"*, assigned to the assignee of the present invention, the disclosures of which are hereby incorporated herein by reference as if set forth fully herein.

Field of the Invention

[0002] This invention relates to systems, devices and/or methods that may be used to provide an adaptive enablement of one or more communications modes based upon having satisfied a proximity criterion. The one or more communications modes may be one or more wireless and/or non-wireless communications modes.

Background of the Invention

[0003] Adaptivity and mobility aspects of wireless communications are becoming more important in people's lives. People are relying more and more on mobile wireless devices to perform an ever-increasing suite of functions such as, for example, navigation, e-mail, web surfing, streaming video, etc. However, there is a rigidity aspect that is associated with wireless mobile devices in that a wireless mobile device is typically configured to be capable of performing a predetermined number of functions independent of its location, Time-of-Day (ToD), velocity, acceleration, temperature, sensing of a signal, etc. It would, for example, be desirable to have a mobile wireless device act as a "wallet" (over and above other functions) only when it is time to pay for an item and not act as a wallet when there is no need to do so.

IPR2025-01235
Apple EX1002 Page 19

[0004] The present invention, addresses these limitations (i.e., the rigidity) of current wireless mobile devices. Accordingly, embodiments of the present invention provide systems, devices and/or methods that may be used to enable adaptively one or more modes/functions of a device based upon having satisfied by the device (or another device) a proximity condition/criterion.

[0005] As used herein, the term "end-user device," "wireless mobile device," "mobile wireless device" or simply "device" includes any electronic device that may be used to transmit/receive information wirelessly and/or non-wirelessly such as, for example, a Digital Subscriber Line (DSL) modem/transceiver; a cable modem/transceiver; a cellular and/or satellite radiotelephone with or without a multi-line display; Personal Communications System (PCS) terminals that may combine a radiotelephone with data processing, facsimile and/or data communications capabilities; Personal Digital Assistants (PDA) that can include a radio frequency transceiver and/or a pager, Internet/Intranet access, Web browser, organizer, calendar and/or a global positioning system (GPS) receiver; laptop and/or palmtop computers or other appliances, which may (or may not) include a radio frequency transceiver.

[0006] An end-user device also may be referred to herein as a radiotelephone, radioterminal, mobile terminal, user device, wireless device, device and/or terminal; etc. As used herein, the term end-user device and/or any of its synonyms also include(s) any other radiating device/equipment/source that may have time-varying or fixed geographic coordinates and/or may be portable, transportable, installed in a vehicle (aeronautical, maritime, or land-based) and/or situated and/or configured to operate locally and/or in a distributed fashion over one or more terrestrial and/or extra-terrestrial location(s).

Brief Description of the Drawings

[0007] FIG. 1 depicts a communication system that detects a proximity criterion in accordance with the claimed embodiments;

[0008] FIG. 2 depicts another communication system that detects a proximity criterion in accordance with the claimed embodiments;

IPR2025-01235
Apple EX1002 Page 20

[0009] FIG. 3 is a flow chart illustrating a method of detecting proximity criterion and enabling functions or modes on devices in accordance with the claimed embodiments.

Detailed Description

[00010] The present invention now will be described more fully hereinafter with reference to specific embodiments and/or the accompanying drawing(s), in which embodiments of the invention are shown. This invention may, however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein. Rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art.

[00011] It will be understood that when an element is referred to as being "connected," "coupled" and/or "responsive" to another element, it can be directly connected, coupled and/or responsive to the other element or intervening elements may be present. Furthermore, "connected," "coupled" and/or "responsive" as used herein may include wirelessly connected, coupled and/or responsive. The terminology used herein is for the purpose of describing particular embodiments only and is not intended to be limiting of the invention. As used herein, the singular forms "a," "an" and/or "the" are intended to include the plural forms as well, unless expressly stated otherwise. It will be further understood that the terms "includes," "comprises," "including" and/or "comprising," when used in this specification, specify the presence of stated features, integers, steps, operations, elements, and/or components, but do not preclude the presence and/or addition of one or more other features, integers, steps, operations, elements, components, and/or groups thereof.

[00012] Unless otherwise defined, all terms (including technical and scientific terms) used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention belongs. It will be further understood that terms, such as those defined in commonly used dictionaries, should be interpreted as having a meaning that is consistent with their meaning in the context of the relevant art and

IPR2025-01235
Apple EX1002 Page 21

the present disclosure, and will not be interpreted in an idealized or overly formal sense unless expressly so defined herein.

[00013] Furthermore, it will be understood that although terms such as, for example, first and second may be used herein to describe various elements, these elements should not be limited by these terms. These terms are only used to distinguish one element from another element. Thus, a first element below could be termed a second element, and similarly, a second element may be termed a first element without departing from the teachings of the present invention. As used herein, the term "and/or" includes any and all combinations of one or more of the associated listed items. The symbol "/" is also used as a shorthand notation for "and/or."

[00014] A mobile device such as, for example, a wireless communications device (e.g., a wireless terminal, a wireless/mobile phone, a Personal Digital Assistant (PDA), a smart phone, a multi-media device including Global Positioning System (GPS) capability, etc.) and/or one or more systems that is/are providing service to the mobile device and/or to a device other than the mobile device, may be configured to enable one or more modes/functions of the mobile device and/or of the device other than the mobile device, responsive to a proximity criterion having been satisfied.

[00015] In some embodiments, determining whether the proximity criterion is satisfied comprises determining by the mobile device and/or by the one or more systems of a location associated with the mobile device. In other embodiments, determining whether the proximity criterion is satisfied comprises determining by the device other than the mobile device and/or by the one or more systems of a location that is associated with the device other than the mobile device. The determining by the mobile device, by the device other than the mobile device and/or by the one or more systems may, in some embodiments, comprise reception and/or processing of GPS signals in order to determine a Time-of-Day (ToD), Time-of-Month (ToM), Time-of-Year (ToY), velocity, acceleration and/or position (in three-dimensional space). In other embodiments, the determining may be based upon the mobile device and/or the device other than the mobile device detecting a signal that is being radiated by a device that is attached to and/or is installed in/on an entity (i.e., a device that is associated with the entity). In still further embodiments, the device other than the

IPR2025-01235
Apple EX1002 Page 22

mobile device may send a message to the mobile device requesting enablement of one or more modes/functions of the mobile device and/or of the device other than the mobile device and, responsive to an affirmative response by the mobile device, the mobile device and/or the device other than the mobile device may enable the one or more modes/functions of the mobile device and/or of the device other than the mobile device.

[00016] The entity may, for example, be a person, an animal, a vehicle (ground-based, maritime and/or aeronautical), a building (residential, commercial and/or office), a product that is for sale, a store that sells one or more products, a check-out counter in a store, a shopping cart that may be used by a customer to carry one or more products selected by the customer for purchase, one or more locations in time and/or space, a geographic area and/or a multi-dimensional region in time and/or space.

[00017] The signal that is being radiated by the device that is attached to and/or is installed in the entity may include an element that may be *a priori* known by the mobile device and/or by the device other than the mobile device. As such, according to some embodiments, the mobile device and/or the device other than the mobile device may, when proximate to the entity, receive the signal that is being radiated by the device that is attached to and/or is installed in the entity, detect the element that may be *a priori* known by the mobile device and/or by the device other than the mobile device and thus determine that the mobile device and/or the device other than the mobile device is proximate to the entity.

[00018] It will be understood that the signal that is being radiated by the device that is attached to and/or is installed in the entity may be radiated at a relatively low power level so that it may be detected by the mobile device and/or by the device other than the mobile device only over a relatively small distance between, for example, the mobile device and the device that is attached to and/or is installed in the entity (e.g., over a distance that is, for example, less than 100 meters, in some embodiments or less than 10 meters, in other embodiments). It will also be understood that the element that may be *a priori* known by the mobile device and/or by the device other than the mobile device may comprise an identity associated with the entity. In some

IPR2025-01235
Apple EX1002 Page 23

embodiments, the identity may comprise a number, a word/name, a location, a Time-of-Day (ToD), a unique code, a region of space and/or time, etc.

[00019] According to some embodiments, the mobile device and/or the device other than the mobile device may be configured so that a user of the mobile device and/or a user of the device other than the mobile device, a service provider providing service to the mobile device and/or providing service to the device other than the mobile device and/or a manufacturer of the mobile device and/or the device other than the mobile device may program the mobile device and/or the device other than the mobile device to recognize the element and/or the identity associated with the entity.

[00020] A number of examples/applications of the concepts disclosed above will now be described to further illustrate the scope and spirit of the present invention to those skilled in the art.

[00021] **Example/Application No. 1:** A motor vehicle, such as, for example, a car, may be configured with a low-power radiator that radiates a signal that includes an identity of the motor vehicle, a velocity of the motor vehicle, an acceleration of the motor vehicle, a position of the motor vehicle, a Time-of-Day (ToD), a Time-of-Month (ToM), a Time-of-Year (ToY) and/or an indication of a content of the motor vehicle. Now imagine a person who is associated with the motor vehicle (e.g., an owner/driver of the motor vehicle) is approaching the motor vehicle. Let us assume that the person who is approaching the motor vehicle and is associated with the motor vehicle carries a wireless communications device. The wireless communications device may be configured to sense the signal that is being radiated by the low-power radiator, detect the identity of the motor vehicle and compare the detected identity with one or more *a priori* identities that are stored in the wireless communications device. If a match is found, the communications device may be configured to selectively enable, responsive to the match, for example, a "pay toll" function. Accordingly, as the motor vehicle approaches an access point that is configured to radiate a signal associated with toll collection, the communications device, responsive to having detected the signal associated with toll collection, may be configured to transmit information that may be used by the access point and/or by an associated toll collection system that may be connected to the access point to debit an account that is

associated with a user and/or owner of the communications device. In further embodiments of the present invention, if the match is found, the communications device may be configured to selectively enable, responsive to the match and responsive to a velocity of the motor vehicle, an acceleration of the motor vehicle, a position of the motor vehicle, a Time-of-Day (ToD), a Time-of-Month (ToM), a Time-of-Year (ToY) and/or a content of the motor vehicle, for example, the "pay toll" function. It will be understood that the velocity of the motor vehicle, the acceleration of the motor vehicle, the position of the motor vehicle, the ToD, the ToM and/or the ToY may be provided by the communications device (based on GPS signal processing, and/or based on any other means, that may be performed/implemented by the communications device and/or by a network that may be providing service to the communications device) and/or by the motor vehicle.

[00022] The wireless communications device may be configured to keep the pay toll function enabled for as long as the wireless communications device is able to sense the signal that is being radiated by the low-power radiator (i.e., the signal that includes an identity of the motor vehicle) and to selectively disable the pay toll function a short time after the wireless communications device is no longer able to sense the signal that is being radiated by the low-power radiator. In further embodiments, the wireless communications device may be configured to keep the pay toll function enabled as long as the wireless communications device is able to sense the signal that is being radiated by the low-power radiator and a specific value (or values) associated with at least one of a velocity of the motor vehicle, an acceleration of the motor vehicle, a position of the motor vehicle, a ToD, a ToM, a ToY and a content of the motor vehicle is/are being met/satisfied.

[00023] In accordance with some embodiments, even though the wireless communications device does not find a match but is able to sense the signal that is being radiated by the low-power radiator, the wireless communications device may be configured to provide a notification (e.g., a sound, a vibration, a light and/or an alpha-numeric display, etc.). Responsive to the notification, a user of the wireless communications device may instruct (for example, manually or via voice command) the wireless communications device to enable the pay toll function.

IPR2025-01235
Apple EX1002 Page 25

[00024] In further embodiments, a second wireless communications device that belongs to and/or is being used by a second person, senses a signal and, responsive to having sensed the signal (whether a match is found or not) sends a request selectively to a first wireless communications device. Responsive to the request, the first wireless communications device sends an acknowledgement and/or an authorization to the second wireless communications device. Responsive to the acknowledgement and/or authorization the second wireless communications device selectively enables a mode which, according to some embodiments, is the pay toll function. It will be understood that the first and second wireless communications devices may, according to some embodiments, be predetermined to function as described above. That is, the first wireless communications device acting as a "master" and the second wireless communications device acting as a "slave" in that the second wireless communications device is configured to enable a mode/function thereof responsive to a detection/match and responsive to receiving an authorization from the first wireless communications device. If the mode/function comprises paying for a transaction, an amount of money associated with the paying may be deducted/withdrawn from an account associated with an owner/user of the first wireless communications device.

[00025] Thus, according to some embodiments, the first wireless communications device functions independently and/or autonomously whereas the second wireless communications device functions dependently on the first wireless communications device, at least as far as at least one of its modes/functions is concerned. The master-slave relationship between the first and second wireless communications devices may, according to some embodiments, be predetermined. In other embodiments, the master-slave relationship may not be predetermined and may be negotiated and/or established, as a need for such a relationship arises, by exchanging information between the first and second wireless communications devices. It will be understood that, in some embodiments, at least one of the first and second wireless communications devices may not be a wireless communications device.

[00026] **Example/Application No. 2:** A wireless communications device may be configured to estimate a location associated therewith and may also be configured to estimate a value of at least one other parameter that may be associated with the

wireless communications device, an environment thereof and/or an entity (living or otherwise) that is associated with and/or is proximate to the wireless communications device. The "at least one other parameter" may, for example, be a velocity, acceleration, ToD, ToM, ToY, humidity, temperature, height, level of brightness, level of darkness, a blood pressure, a heart rate, a blood content, a physiological state, a psychological state, etc. As those skilled in the art will appreciate, the wireless communications device may be configured to estimate its location and the value of the "at least one other parameter" by, for example, processing GPS signals and/or by using other means and/or sensors that may, according to some embodiments, be device-based and/or network assisted/based means and/or sensors.

[00027] According to some embodiments, the wireless communications device may be configured to make a comparison between an estimate of its location and one or more other locations, that may be one or more other predetermined and/or pre-stored locations, and the wireless communications device may be configured to selectively enable a first communications mode/function responsive to an outcome of the comparison and/or to selectively disable a second communications mode/function responsive to the outcome of the comparison. In other embodiments, the wireless communications device may be configured to selectively enable the first communications mode/function responsive to the outcome of the comparison and/or responsive to a value of another parameter, such as, for example, a value associated with the "at least one other parameter" list and/or selectively disable the second communications mode/function responsive to the outcome of the comparison and/or responsive to a value of another parameter, such as, for example, a value associated with the "at least one other parameter" list.

[00028] For example, in some embodiments, if a comparison between an estimate of location of the wireless communications device and the one or more locations that are predetermined and/or pre-stored reveals a distance therebetween that is less than or equal to a threshold, the wireless communications device may be configured to selectively and/or preferentially enable a first communications mode, that may be one communications mode of a plurality of communications modes, that uses, for example, a first air interface protocol and a first set of frequencies to communicate

information wirelessly (wherein the first set of frequencies may be a predetermined first set of frequencies), while refraining from using (and/or using only infrequently and/or as a last resort depending on an emergency, need and/or a priority) a second communications mode, of the plurality of communications modes, comprising a second set of frequencies and/or a second air interface protocol. In some embodiments, refraining from using (and/or using only infrequently and/or as a last resort depending on an emergency, need and/or a priority) a second communications mode comprises selectively and/or preferentially disabling the second communications mode that uses, for example, the second air interface protocol and/or the second set of frequencies. It will be understood that, according to some embodiments, the first and/or second air interface protocols may be predetermined and that the first and/or second set of frequencies may also be predetermined. In further embodiments, at least one of the first air interface protocol, the second air interface protocol, the first set of frequencies and the second set of frequencies may not be predetermined and may be determined as required responsive to receiving a message, sensing/detecting at least a portion of an electro-magnet spectrum and/or via other means such as, for example, a user choice/preference/command.

[00029] In some embodiments, the first communications mode may comprise an air interface protocol, such as, for example, an Orthogonal Frequency Division Multiplexed and/or an Orthogonal Frequency Division Multiple Access (OFDM/OFDMA) protocol, a WiFi- and/or WiMAX-based air interface protocol that may be based upon Time Division Duplex (TDD) operation wherein a common set of frequencies are used bi-directionally (at different times) to provide uplink and downlink communications, and the first and/or second set of frequencies may comprise, for example, an un-licensed use and/or a licensed use set of frequencies.

[00030] In further embodiments, the wireless communications device may further be configured to selectively enable (or to prefer) a first communications mode and/or to selectively refrain from using (or avoid from using unless a level of priority and/or other reason is provided) a second communications mode, responsive to the comparison of position that was discussed earlier and/or responsive to a value of a quantity/parameter, such as, for example, a value associated with the "at least one

IPR2025-01235
Apple EX1002 Page 28

other parameter" and/or responsive to an event (man-caused or natural). The first communications mode may comprise a first air interface protocol and a first set of frequencies for transmission/reception of information and the second communications mode may comprise a second air interface protocol, that may be different from the first air interface protocol, and/or a second set of frequencies for transmission and/or reception of information that may be different (or at least partially different) from the first set of frequencies.

[00031] The wireless communications device may be configured to repeatedly make a decision based on the comparison of position that was discussed earlier, based on the value of a quantity/parameter, such as, for example, a value associated with the "at least one other parameter" and/or based on the event (man-caused and/or natural), to maintain the first communications mode enabled and/or to maintain the second communications mode disabled for as long as the comparison of position, the value of the quantity/parameter and/or the event (man-caused and/or natural) continues to satisfy a threshold criterion and to disable the first communications mode and/or enable the second communications mode after the wireless communications device determines that the comparison of position, the value of the quantity/parameter and/or the event no longer satisfies the threshold criterion.

[00032] In further embodiments, responsive to the comparison of position, the value of the quantity/parameter and/or the event satisfying the threshold criterion, the wireless communications device may be configured to send information (automatically or upon user command) selectively to one or more other devices that, according to some embodiments, may be predetermined other devices. In still other embodiments, responsive to the comparison of position, the value of the quantity/parameter and/or the event satisfying the threshold criterion, the wireless communications device may be configured to receive information (automatically or upon user command) selectively from one or more other devices that, according to some embodiments, may be predetermined other devices.

[00033] **Example/Application No. 3:** A shopping cart, for example, of the type used in a grocery and/or super-market store, may be configured to sense/detect one or more items that are placed in the shopping cart. As used herein, the term "configured to

IPR2025-01235
Apple EX1002 Page 29

sense/detect" may, in some embodiments, comprise sensing/detecting, for example, a weight, a manufacturer, an expiration date, a price and/or a nutritional value, etc. associated with the one or more items, wherein the sensing/detecting may be performed based upon any technology, such as, for example, a Radio Frequency (RF) tagging technology, a bar-code technology, an image recognition technology and/or any other technology.

[00034] Each shopping cart may include an identity (e.g., a number). Mr. Jones (a customer), who chooses a shopping cart having as identity a number such as, for example, "8787," may insert the number 8787 into a wireless communications device that Mr. Jones is carrying/using. Upon inserting the number 8787 into the wireless communications device, the wireless communications device may be configured to selectively establish a communications link, that may, in some embodiments, be a short-range communications link, with the shopping cart having identity 8787. From that time on, as the shopping cart senses/detects the one or more items that are placed in the shopping cart, information associated with the sensing/detecting of the one or more items, including price information associated with the one or more items, is transferred to Mr. Jones' wireless communications device via the communications link that is selectively established between Mr. Jones' wireless communications device and shopping cart 8787.

[00035] In the event that Mr. Jones decides to put back on a shelf an item that has been placed in shopping cart 8787, that item is sensed/detected by the shopping cart as having been withdrawn/deleted from the shopping cart and at least some information associated therewith is withdrawn/deleted, or at least changed, from Mr. Jones' wireless communications device via one or more commands/messages sent to the wireless communications device by the shopping cart, via the communications link.

[00036] When Mr. Jones has finished shopping, Mr. Jones can examine the wireless communications device and may instruct the wireless communications device to perform a transaction, such as, for example, to pay for the one or more items that Mr. Jones has placed in shopping cart 8787. In some embodiments, the shopping cart including the one or more items and the wireless communications device may need to

IPR2025-01235
Apple EX1002 Page 30

be proximate to a specific location within the grocery and/or super market store (e.g., proximate to a "check-out" counter/location) before the wireless communications device and/or shopping cart (individually and/or jointly in communication therebetween) may enable a "pay" function by detecting a (short-range) signal that may be transmitted by/from the specific location.

[00037] Other Embodiments: Figures 1 and 2 illustrate further embodiments of the present invention. Additional embodiments may comprise systems and/or methods. For example, in one embodiment as illustrated in FIG. 1, a method in a system 10 is provided comprising: detecting that a proximity criterion is satisfied between a first device 14, such as a mobile subscriber device, and Entity 1; and enabling a mode of the first device and/or a mode of a second device 15 responsive to the detecting; where, according to some embodiments, the second device 15 is not the Entity 1 and is not associated with the Entity 1 and wherein the Entity 1 is not involved in providing a communications service to the first and/or second device. In one particular embodiment, a mobile subscriber device 14 linked to a communications system 18 via base station 12 can enable a function when the device 14 comes within a proximity of Entity 1. The function enabled can be any number of functions at the mobile subscriber device 14 or even at the mobile subscriber device 15. The mobile subscriber device 15 can also be linked to the communications system 18 via a base station 13. The function enabled can be a financial transaction, the transmission of communications, such as data, and/or some other function that may provision the mobile subscriber device 14 and/or the mobile subscriber device 15 with additional functionality not previously available/activated at the respective devices.

[00038] In one embodiment, the detection by mobile subscriber device 14 of a proximity criterion relative to Entity 1 can enable the mobile subscriber device 14 to authorize and complete a financial transaction such as the payment of a toll and/or of an item at a check out line. The same detection by mobile subscriber device 14 of the proximity criterion relative to Entity 1 can also or alternatively enable the mobile subscriber device 15 to authorize and complete a financial transaction such as the payment of a toll and/or a payment for an item at a check out line. The enablement of the mobile subscriber device 15 may also be contingent on the mobile subscriber

IPR2025-01235
Apple EX1002 Page 31

device 15 having satisfied a proximity criterion relative to a second entity, such as Entity 2. Thus, the proximity criterion can include various requirements depending on the particular application. The requirements may include at least one of having the device 14 being within a predetermined distance of Entity 1, the device 14 receiving a predetermined signal strength from Entity 1, being at such predetermined distance for a predetermined time interval and receiving a predetermined signal strength during the predetermined time interval. The requirements can also include having device 15 being within a predetermined distance and/or predetermined signal strength of Entity 2, and/or being within such predetermined distance and/or signal strength during a predetermined time interval. It will be understood that at least one of devices 16 and 17, shown in FIG. 1 as being attached to Entity 1 and Entity 2, respectively, may, according to some embodiments, comprise a wireless transmitter and/or receiver.

[00039] According to some embodiments, the detecting may be performed by the first device (i.e., radioterminal 14), by the second device (i.e., radioterminal 15), by a device that is associated with an entity (i.e., device 16 and/or device 17) and/or by a system that is associated with the first and/or second devices (i.e., system 18, base station 12 and/or base station 13). Also, in some embodiments, the enabling may be performed by the first device, by the second device, by a device that is associated with the entity and/or by a system that is associated with the first and/or second devices.

[00040] In some embodiments, the first device comprises a wireless communications device, the second device comprises a wireless communications device and/or the system that is associated with the first and/or second devices comprises a wireless communications system that is configured to provide a communications service to the first and/or second devices.

[00041] In further embodiments, detecting comprises: using position information associated with the first device; using position information associated with the second device; detecting a signal (and/or a signal strength measurement such as RSSI) that is being radiated by the first device; detecting a signal (and/or a signal strength) that is being radiated by the second device; and/or detecting a signal (and/or a signal strength) that is being radiated by a device that is associated with the entity, wherein

IPR2025-01235
Apple EX1002 Page 32

using position information may, according to some embodiments, comprise: evaluating a distance between the position information and one or more position values; and determining whether the distance is less than or equal to a threshold. In some embodiments, the one or more position values is/are predetermined.

[00042] In further embodiments, responsive to the enabling, the method comprises performing a function; wherein the function, according to some embodiments, comprises a financial transaction, receiving data and/or transmitting data. In some embodiments, receiving data comprises receiving data selectively from a first unit and wherein transmitting data comprises transmitting data selectively to a second unit. In some embodiments, the first and second units are the same unit, whereas in other embodiments the first and second units are different units. In further embodiments, the first and/or second units may be predetermined units and the first unit may comprise a wireless communications device and/or the second unit may comprise a wireless communications device. In yet further embodiments, the first unit may be associated with an Internet Protocol (IP) address and/or the second unit may be associated with an IP address.

[00043] Referring to FIG. 2, the first device 14 can traverse a path 23 within an overall coverage area 20 and the second device 15 can traverse a path 25 within the overall coverage area 20. The overall coverage area 20 can include areas 22 and 24 that can be associated with respective entities. The entry of the first device 14 within area 22 can selectively enable a mode and/or a function at device 14 and can optionally enable a mode and/or a function at device 15 based, according to some embodiments, on a proximity criterion to area 24. For example, if device 14 owned and/or operated by a user is at a first store within area 22 and the device 15 owned/operated by, for example, the user's spouse is at a second store within area 24, then the user's spouse at device 15 can complete a purchase within area 24 based on the user's presence with device 14 within area 22. Similarly, if the two users at devices 14 and 15 at respective areas 22 and 24 want to sample music, games and/or even play a game between each other, their respective device can be provisioned for such sampling as long as they stay within the proximity criteria set for each of the respective devices. Once one or the other device goes beyond the respective

IPR2025-01235
Apple EX1002 Page 33

proximity criterion, the mode and/or function enabling the sampling will be disabled at one or both devices.

[00044] In some embodiments according to the present invention, receiving data comprises receiving a position, a request and/or an acknowledgement and wherein transmitting data comprises transmitting a position, an authorization and/or an acknowledgement.

[00045] In further embodiments according to the present invention, the financial transaction comprises providing payment associated with a toll and/or providing payment associated with a purchase of one or more items.

[00046] In accordance with additional embodiments of the present invention, receiving data comprises receiving data once or repeatedly and transmitting data comprises transmitting data once or repeatedly.

[00047] It will be understood that relative to any one of the plurality of methods described above, the term "entity" may comprise a person, an animal, a building, a motor vehicle, a shopping cart, a product, a check-out counter, a geographic position, a geographic area and/or one or more locations in time and/or space.

[00048] In a further embodiment according to the present invention, a system is provided comprising: a detector that is configured to enable a mode of a first device and/or to enable a mode of a second device responsive to a detection that a proximity criterion is satisfied between the first device and an entity; wherein, according to some embodiments, the second device is not the entity and is not associated with the entity, and wherein, according to further embodiments, the entity is not involved in providing a communications service to the first and/or second device. In some embodiments, the detector is included in, and the detection is performed by, the first device, the second device, a device that is associated with the entity and/or a system that is associated with the first and/or second devices. Similarly, according to some embodiments, the detector is included in, and the mode is enabled by, the first device, the second device, a device that is associated with the entity and/or a system that is associated with the first and/or second devices.

[00049] Referring to FIG. 3, a flow chart illustrating a method 30 in accordance with an embodiment herein includes detecting that a proximity criterion is satisfied

IPR2025-01235
Apple EX1002 Page 34

between a first device and an entity at 32. Note, that although the steps described are in a certain order in this embodiment, embodiments contemplated within the scope of the claims are not necessarily limited to a particular order or necessarily include every step described in method 30 and may further include additional steps as may be obvious to one of ordinarily skilled in the art. Method 30 can further include enabling a mode of the first device and/or a mode of a second device responsive to detecting satisfaction of the proximity criterion and while the proximity criterion is satisfied at 34, where the first device and the second device form a part of a communication system providing communications service to the first device and the second device. The second device can be independent of the entity and the entity can be independent of the communications service provided to the first and second device at shown at 36. The method at 38 can enable a mode of the first device and a mode of the second device responsive to detecting that the proximity criterion is satisfied between the first device and the entity. The first device and the second device can be mobile subscriber devices (i.e., radioterminals) and the entity can be a proximity beacon enabling a financial transaction between the first device or the second device and a vendor in communication with the first device or the second device at an access point maintained by the vendor or on behalf of the vendor. The access point can be a toll both, a point of purchase counter, or a check out counter and the first device and the second device can be cellular phones authorized selectively by its user and by satisfying the proximity criterion to proceed with a financial transaction associated with the vendor at the access point. As previously noted, although cellular phones are described, other communication devices are certainly within contemplation of the scope of the claims. The step of detecting can be done in any number of various ways. Detecting can include using position information associated with the first device relative to the entity or using position information of the second device relative to the entity or detecting a signal being radiated by the entity or detecting a signal being radiating by the first device and reflected by the entity or detecting a signal being radiating by the second device and reflected by the entity. In this regard, the method 30 can further evaluate a distance between the position information and

IPR2025-01235
Apple EX1002 Page 35

one or more position values and determine whether the distance is less than or equal to a threshold at 39.

[00050] In some embodiments, the first device comprises a wireless communications device and/or the second device comprises a wireless communications device and the system that is associated with the first and/or second devices comprises a wireless communications system.

[00051] In further embodiments, the detection comprises: use of position information associated with the first device; use of position information associated with the second device; a detection of a signal that is being radiated by the first device; a detection of a signal that is being radiated by the second device; and/or a detection of a signal that is being radiated by a device that is associated with the entity. In some embodiments, use of position information comprises: an evaluation of a distance between the position information and one or more position values; and a determination of whether the distance is less than or equal to a threshold. It will be understood, that according to some embodiments of the invention, the one or more position values may be predetermined position values.

[00052] In yet additional embodiments of the present invention, the first device and/or the second device may be configured to perform a function responsive to the mode having been enabled by the detector, wherein, according to some embodiments, the function may comprise a financial transaction, reception of data and/or transmission of data. In some embodiments, reception of data comprises reception of data selectively from a first unit and transmission of data comprises transmission of data selectively to a second unit. In accordance with some embodiments, the first and second units are the same unit and in accordance with other embodiments, the first and second units are different units. It will be understood that in some embodiments the first and/or second units may be first and second predetermined units.

[00053] In yet further embodiments of the invention, the first unit may comprise a wireless communications device and/or the second unit may comprise a wireless communications device. According to additional embodiments, the first unit is associated with an Internet Protocol (IP) address and/or the second unit is associated with an IP address.

IPR2025-01235
Apple EX1002 Page 36

[00054] In some embodiments of the present invention, receiving data comprises receiving a position, a request and/or an acknowledgement and wherein transmitting data comprises transmitting a position, an authorization and/or an acknowledgement. According to other embodiments, the financial transaction comprises a payment of a toll and/or a payment associated with a purchase of one or more items. It will be understood that, in some embodiments, the reception of data comprises reception of data once or repeatedly and that, according to some embodiments, the transmission of data comprises transmission of data once or repeatedly. It will also be understood that according with any one of the embodiments described above (or any combination thereof) the term "entity," as used therein may comprise a person, an animal, a building, a motor vehicle, a shopping cart, a product that is on sale, a check-out counter, a geographic position, a geographic area and/or one or more locations in time and/or space.

[00055] In some embodiments according to the present invention, a system may comprise the detector, the first device, the second device, the entity, the device that is associated with the entity and/or the system that is associated with the first and/or second devices.

[00056] In the specification, there have been disclosed embodiments and, although specific terms are employed, they are used in a generic and descriptive sense only and not for purposes of limitation. The following claims are provided to set forth, at least in part, the scope of the present invention.

IPR2025-01235
Apple EX1002 Page 37

Claims:

1. A method of operating a smartphone, the method comprising:

detecting by the smartphone that a proximity condition is satisfied between the smartphone and an entity within a store;

establishing, using a first air interface, a wireless short-range communications link between the smartphone and the entity, in response to the proximity condition having been satisfied between the smartphone and the entity;

receiving, using the first air interface, a short-range signal from the entity within the store;

performing by the smartphone a transaction to pay for one or more items within the store, after receiving the short-range signal from the entity; and

receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface,

wherein the wireless short-range communications link used by the first air interface is based upon unlicensed frequencies, and

wherein the second air interface uses a wireless communications link that is based upon licensed frequencies.

2. The method of Claim 1, wherein establishing the wireless short-range communications link between the smartphone and the entity is performed in response to a physiological parameter.

3. The method of Claim 1, wherein performing by the smartphone the transaction to pay for the one or more items is performed in response to a physiological parameter.

4. The method of Claim 1, wherein performing by the smartphone the transaction to pay for the one or more items is performed in response to a value of a parameter associated with the smartphone.

IPR2025-01235
Apple EX1002 Page 38

5. A smartphone that is configured to perform operations comprising:

detecting by the smartphone that a proximity condition is satisfied between the smartphone and an entity within a store;

establishing, using a first air interface, a wireless short-range communications link between the smartphone and the entity, in response to the proximity condition having been satisfied between the smartphone and the entity;

receiving, using the first air interface, a short-range signal from the entity within the store;

performing by the smartphone a transaction to pay for one or more items within the store, after receiving the short-range signal from the entity; and

receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface,

wherein the wireless short-range communications link used by the first air interface is based upon unlicensed frequencies, and

wherein the second air interface uses a wireless communications link that is based upon licensed frequencies.

6. The smartphone of Claim 5, wherein establishing the wireless short-range communications link between the smartphone and the entity is performed in response to a physiological parameter.

7. The smartphone of Claim 5, wherein performing by the smartphone the transaction to pay for the one or more items is performed in response to a physiological parameter.

8. The smartphone of Claim 5, wherein performing by the smartphone the transaction to pay for the one or more items is performed in response to a value of a parameter associated with the smartphone.

IPR2025-01235
Apple EX1002 Page 39

ABSTRACT

A system (10) and method (30) comprises a detector that is configured to enable a mode of a first device (14) and/or to enable a mode of a second device (15) responsive to a detection that a proximity criterion is satisfied between the first device and an entity (Entity 1) and responsive to at least one of a position, velocity and a Time-of-Day and where the second device is not the entity and is not associated with the entity, and where the entity is not involved in providing a communications service to the first and/or second device.

IPR2025-01235
Apple EX1002 Page 40

Attorney Docket No. 9466-24TSCT3 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Karabinis et al.
Application No.: To Be Assigned
Filing Date: Concurrently Herewith
For: MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Date: January 18, 2019

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Sir:

Attached is an Information Disclosure Statement listing of documents previously of record in parent Application No. 15/251,882, filed August 30, 2016. As the benefit of this application is claimed under 35 U.S.C. § 120, no copies need to be furnished in accordance with 37 C.F.R. § 1.98(d); however, copies will be furnished on request.

☒ In accordance with **37 CFR 1.97(b)**, the information disclosure statement is being filed:

- ☒ (1) within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
- ☐ (2) within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
- ☐ (3) before the mailing of a first Office Action on the merits; or
- ☐ (4) before the mailing of a first Office Action after the filing of a request for continued examination under §1.114.

☐ In accordance with **37 CFR 1.97(c)**, the information disclosure statement is being filed after the period specified in 37 CFR 1.97(b) above, but before the mailing date of any of a final action under §1.113, a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application, and is accompanied by **one** of the following:

☐ (1) The statement specified under **37 CFR 1.97(e)**, as follows:

☐ Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; **or**

☐ No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement; **or**

☐ (2) The fee set forth in §1.17(p);

☐ In accordance with **37 CFR 1.97(d)**, the information disclosure statement is being filed after the period specified in 37 CFR 1.97(c) above, but on or before payment of the issue fee, and is accompanied by **both** of the following:

☐ (1) The statement specified under **37 CFR 1.97(e)**, as follows:

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; **or**

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement; **and**

☐ (2) The fee set forth in §1.17(p);

In accordance with **37 CFR 1.97(g)**, the information disclosure statement shall not be construed as a representation that a search has been made.

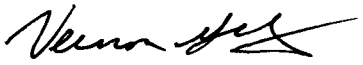
In accordance with **37 CFR 1.97(h)**, the information disclosure statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56(b).

☐ The Director is hereby authorized to charge the fee specified in 37 C.F.R. § 1.17(p), and any fee deficiency or credit any overpayment, to Deposit Account No. 50-0220;

☐ Fees are to be charged to a credit card; or

☒ No fee is believed due. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

Respectfully submitted,



Vernon H. Guthrie
Registration No. 63,798

Customer Number 20792
Myers Bigel, P.A.
P.O. Box 37428, Raleigh, NC 27627
919-854-1400
919-854-1401 (Fax)

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Karabinis, Peter D.
Art Unit	
Examiner Name	
Attorney Docket Number	9466-24TSCT3 (A)

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6595929		2003-07-22	STIVORIC JOHN M; et al.	
	2	6769607		2004-08-03	PITRODA SATYAN G; et al.	
	3	6957107		2005-10-18	ROGERS BOBBY E; et al.	
	4	7028897		2006-04-18	FERNANDES JORGE M; et al.	
	5	7133659		2006-11-07	ZALEWSKI THOMAS W; et al.	
	6	7155199		2006-12-26	ZALEWSKI THOMAS W; et al.	
	7	RE 39736		2007-07-17	MORRILL, JR.	
	8	7539241		2009-05-26	DICK CHRISTOPHER H	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

	9	7780081		2010-08-24	LIANG ROBERT C	
	10	7822644		2010-10-26	ALBERTH JR WILLIAM P; et al.	
	11	7912629		2011-03-22	SUTTER DAVID WILLIAM; et al.	
	12	8023580		2011-09-20	BREMER GORDON F	
	13	8463238		2013-06-11	FORSTALL SCOTT; et al.	
	14	8532069		2013-09-10	BALWANI RAMESH	
	15	8646060		2014-02-04	BEN AYED MOURAD	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20030220105		2003-11-27	DAIGREMONT JOHANN; et al.	
	2	20040030601		2004-02-12	POND RUSSELL L; et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

	3	20040143505		2004-07-22	KOVACH ARAM	
	4	20040170430		2004-09-02	GOROKHOV ALEXEI	
	5	20060009234		2006-01-12	FREER CARL J	
	6	20060085297		2006-04-20	MINERLEY KEVIN G	
	7	20060133633		2006-06-22	HYVONEN LASSI; et al.	
	8	20060145893		2006-07-06	HASSETT JOHN J	
	9	20060159260		2006-07-20	PEREIRA LUIS R; et al.	
	10	20060172700		2006-08-03	WU PETER	
	11	20060194538		2006-08-31	PALIN ARTO; et al.	
	12	20070129077		2007-06-07	IGUCHI MASAYUKI; et al.	
	13	20070167147		2007-07-19	KRASNER NORMAN F; et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

	14	20070178935		2007-08-02	SHIM CHUNG SEOB; et al.	
	15	20070184837		2007-08-09	HOHL FRITZ; et al.	
	16	20070197261		2007-08-23	HUMBEL ROGER M	
	17	20070243872		2007-10-18	GALLAGHER MICHAEL D; et al.	
	18	20070250393		2007-10-25	ALBERTH JR WILLIAM P; et al.	
	19	20070260710		2007-11-08	DOWLING ERIC MORGAN	
	20	20070265984		2007-11-15	SANTHANA PRAKASH	
	21	20070285280		2007-12-13	ROBINSON BENJAMIN P; et al.	
	22	20080040274		2008-02-14	UZO CHIJIOKE CHUKWUEMEKA	
	23	20080140868		2008-06-12	KALAYJIAN NICHOLAS; et al.	
	24	20080146148		2008-06-19	HULVEY ROBERT WILLIA	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

	25	20080167966		2008-07-10	RAMSDALE DAVID; et al.	
	26	20080200166		2008-08-21	MCCAMON MICHAEL G	
	27	20080227471		2008-09-18	DANKAR AJAY; et al.	
	28	20080306868		2008-12-11	ROBINSON BENJAMIN P; et al.	
	29	20090023474		2009-01-22	LUO XUN; et al.	
	30	20090113543		2009-04-30	ADAMS NEIL P; et al.	
	31	20090153367		2009-06-18	LEE YONG WHI	
	32	20090169070		2009-07-02	FADELL ANTHONY	
	33	20090213947		2009-08-27	RAO RAGHAVENDAR M; et al.	
	34	20100067591		2010-03-18	LUO TAO; et al.	
	35	20100265845		2010-10-21	LAMPEN PATRIK	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

	36	20110314539		2011-12-22	HORTON MICHAEL	
	37	20120214443		2012-08-23	DAIGLE MARK R	
	38	20130156218		2013-06-20	ANNACONE WILLIAM R; et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	"Digital wallet" Wikipedia (4 pages) (Printed on July 10, 2017)	
	2	International Search Report and Written Opinion of the International Searching Authority for corresponding PCT Application No. PCT/US09/062792 (8 pages) (December 23, 2009)	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Vernon H. Guthrie/	Date (YYYY-MM-DD)	2019-01-18
Name/Print	Vernon H. Guthrie	Registration Number	63798

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

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 record s.

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.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Filer:	Vernon H. Guthrie Jr./Meredith DeRosa
Attorney Docket Number:	9466-24TSCT3

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	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**785**

Electronic Acknowledgement Receipt

EFS ID:	34902279
Application Number:	16251834
International Application Number:	
Confirmation Number:	1391
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	20792
Filer:	Vernon H. Guthrie Jr./Meredith DeRosa
Filer Authorized By:	Vernon H. Guthrie Jr.
Attorney Docket Number:	9466-24TSCT3
Receipt Date:	18-JAN-2019
Filing Date:	
Time Stamp:	15:31:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$785
RAM confirmation Number	012219INTEFSW15321100
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	Transmittal of New Application	9466-24TSCT3_App_Transmittal.pdf	123351 921a71e4779c597ed214f6e8d0dae6c906b6054f	no	1
Warnings:					
Information:					
2	Power of Attorney	9466-24TSCT3_POA.pdf	247784 fd10f3b77da6817c4bf22d1efbfcd13b1b420890	no	2
Warnings:					
Information:					
3	Miscellaneous Incoming Letter	9466-24TSCT3_Remarks.pdf	76464 319fec89186285bcc915d4124a491c2898cc7870	no	1
Warnings:					
Information:					
4	Application Data Sheet	9466-24TSCT3_ADS.PDF	1822966 b3beda5285f6c73c1c4b60df235e0fde1b92e311	no	9
Warnings:					
Information:					
5	Oath or Declaration filed	9466-24TSCT3_Declaration.PDF	78774 d8e3b2c5a01af35439ea5879a3095de9adcf89e1	no	2
Warnings:					
Information:					
6	Drawings-only black and white line drawings	9466-24TSCT3_Drawings.PDF	59189 4aae9446f2e366a88f6ef4cd3d712ce01303fd6f	no	3
Warnings:					
Information:					

7		9466-24TSCT3_Specification.pdf	154747 dede58aa938265b56e320d73c8961fa9a1ce2d8a	yes	22
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Specification		1	19	
	Claims		20	21	
	Abstract		22	22	
Warnings:					
Information:					
8	Transmittal Letter	9466-24TSCT3_IDS_Transmittal.pdf	195691 c36e5031697659beef770c0314597bb2c5b6e96a	no	2
Warnings:					
Information:					
9	Information Disclosure Statement (IDS) Form (SB08)	9466-24TSCT3_IDS_SB08.PDF	1055327 367f19dc6464220252f5622eb96c1048f1227803	no	9
Warnings:					
Information:					
10	Fee Worksheet (SB06)	fee-info.pdf	35321 956e7da1a280814097825d0f977c1e72cb5e2bfe	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3849614		

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/251,834	01/18/2019	2447	785	9466-24TSCT3	8	2

CONFIRMATION NO. 1391

FILING RECEIPT

20792
MYERS BIGEL, P.A.
PO BOX 37428
RALEIGH, NC 27627

OC000000106063974

Date Mailed: 02/22/2019

Receipt is acknowledged of this non-provisional 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 APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Peter D. Karabinis, Cary, NC;
Rajendra Singh, Indian Creek Village, FL;

Applicant(s)

Telcom Ventures, LLC, Miami, FL;

Power of Attorney: The patent practitioners associated with Customer Number 20792

Domestic Priority data as claimed by applicant

This application is a CON of 15/800,885 11/01/2017 PAT 10219199
which is a CON of 15/251,882 08/30/2016 PAT 9832708
which is a CON of 12/264,711 11/04/2008 PAT 9462411

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: Yes

Permission to Access Search Results: Yes

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: 02/21/2019

IPR2025-01235
Apple EX1002 Page 58

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/251,834**

Projected Publication Date: 06/06/2019

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Preliminary Class

709

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

IPR2025-01235
Apple EX1002 Page 59

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

IPR2025-01235
Apple EX1002 Page 60

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 16/251,834

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	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	330		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	8 minus 20 =	*	x 50 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*	x 230 =	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	785		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	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
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.

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Karabinis, Peter D.
Art Unit	2641
Examiner Name	VU, MICHAEL T
Attorney Docket Number	9466-24TSCT3 (B)

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6944981		2005-09-20	GARBERG DENNIS D; et al.	
	2	7503504		2009-03-17	MITRA TWISAMPATI	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16251834
	Filing Date	2019-01-18
	First Named Inventor	Karabinis, Peter D.
	Art Unit	2641
	Examiner Name	VU, MICHAEL T
	Attorney Docket Number	9466-24TSCT3 (B)

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16251834
	Filing Date	2019-01-18
	First Named Inventor	Karabinis, Peter D.
	Art Unit	2641
	Examiner Name	VU, MICHAEL T
	Attorney Docket Number	9466-24TSCT3 (B)

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Vernon H. Guthrie/	Date (YYYY-MM-DD)	2019-04-17
Name/Print	Vernon H. Guthrie	Registration Number	63798

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

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 record s.

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.

Electronic Acknowledgement Receipt

EFS ID:	35748426
Application Number:	16251834
International Application Number:	
Confirmation Number:	1391
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	20792
Filer:	Vernon H. Guthrie Jr./Meredith DeRosa
Filer Authorized By:	Vernon H. Guthrie Jr.
Attorney Docket Number:	9466-24TSCT3
Receipt Date:	17-APR-2019
Filing Date:	18-JAN-2019
Time Stamp:	10:34:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	9466-24TSCT3_IDS.pdf	1053408 f9f670f141aaf47276f424e3e57292c81e213636	no	4

Warnings:

IPR2025-01235
Apple EX1002 Page 66

Information:	
Total Files Size (in bytes):	1053408

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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.
16/251,834	01/18/2019	Peter D. Karabinis	9466-24TSCT3	1391

20792 7590 05/09/2019

MYERS BIGEL, P.A.
PO BOX 37428
RALEIGH, NC 27627

EXAMINER	
VU, MICHAEL T	

ART UNIT	PAPER NUMBER
2641	

MAIL DATE	DELIVERY MODE
05/09/2019	PAPER

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.

Office Action Summary	Application No. 16/251,834	Applicant(s) Karabinis et al.	
	Examiner MICHAEL T VU	Art Unit 2641	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 01/18/2019.

☐ 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) 1-8 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) 1-8 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 1/18/2019 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: _____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 4/17/2019, and 1/18/2019 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

2. The drawings were received on 01/18/2019. These drawings are considered by examiner.

Terminal Disclaimer

3. Examiner suggests the Assignee must submit the Terminal Disclaimer accordingly, in order to process of the application promptly.

Double Patenting

4. 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. See *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); and, *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) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-8 are rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 1, 6, 8-10, 16, 18-19 of Patent No. **10,219,199**. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims in the instant application was filed on 11/04/2008 is non-statutory and is broader than the ones in the patent and encompasses a similar invention as recited in the patent claims, i.e., a computer-readable medium containing lower than application level instructions that, when executed, cause a wireless network system controller to: receive at least one command from at least one base station unit (BSU); therefore, the claims are obviousness-type by the claims in U.S Patent No. **10,219,199** (See In re Goodman).

It is important to note that claimed features recited in claims 1, 6, 8-10, 16, 18-19 of U.S. Patent No. **10,219,199** are more specific than claimed features recited in claims 1-8 of the Instant Application. Hence, the scope of claims of present application is now broader than U.S. Patent No **10,219,199**.

Many decisions support the fact that a broad or generic claim is obvious from a specific claim, i.e., an obvious variation. See In re Van Ornum and Stang, 214 USPQ 761 (CCPA 1982); In re Goodman (CA FC) 29 USPQ2d 2010 (12/3/1993); In re Vogel and Vogel; 164 USPQ 619 (CCPA 1970); In re Berg (CA FC) 46 USPQ2d 1226 (3/30/1998); Eli Lilly and Co. v. Barr Laboratories Inc., 58 USPQ2d 1865 (CA FC 2001). It is well settled that omission of an element and its function in a combination is an

obvious expedient if the remaining elements perform the same functions as before. This notion is supported by In re KARLSON, 136 USPQ 184 (1963); In re Nelson, 95 USPQ 82 (CCPA 1952); and In re Eliot, 25 USPQ 111 (CCPA 1935).

Dependent claims 2-4, 6-8 depend either directly or indirectly upon independent claims 1, and 10 of patent applications **10,219,199** is also rejected at least for the same reasons discussed above.

Claim Rejections - 35 USC § 103

6. 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.

7. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1-8 are rejected under 35 U.S.C. 103 as being unpatentable over DiMartino et al (US 8,249,935), hereinafter "DiMartino", in view of LaBiche (US 2008/0140667), hereinafter "LaBiche".

Regarding **claim 1,** DiMartino teaches a method of operating a smartphone (Figures 1 and 7 teach a method of operating a mobile phone), the method comprising:

detecting by the smartphone that a proximity condition is satisfied between the smartphone and an entity within a store (col. 3, line 27 to col. 4, line 67 detecting between a mobile device and POS/entity by NFC technology, infra-red, ultra-sonic, wireless, Bluetooth, Wi-Fi);

establishing, using a first air interface (Figures 1 and 7 using a first interface between POS 104 and mobile phone 102), a wireless short-range communications link between the smartphone and the entity (col. 3, line 28 to col. 4, line 67 teach the wireless short range communication link), in response to the proximity condition having been satisfied between the smartphone and the entity (col. 3, line 28 to col. 4, line 67 teach in response to the short range communication between the mobile device and POS reads on entity);

receiving, using the first air interface, a short-range signal from the entity within the store (col. 3, line 28 to col. 4, line 67 using NFC technology reads on the first interface); and

receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface (col. 8, line 16 to col. 9, line 45 teach using a cellular interface reads on the second interface),

wherein the wireless short-range communications link used by the first air interface is based upon unlicensed frequencies (col. 3, line 28 to col. 4, line 67 using NFC technology, Wi-Fi reads on the first interface that is based upon unlicensed frequencies), and

wherein the second air interface uses a wireless communications link that is based upon licensed frequencies (col. 8, line 16 to col. 9, line 45 using the cellular interface reads on the second interface that is based upon licensed frequencies).

DiMartino does not explicitly teach performing by the smartphone a transaction to pay for **one or more** items within the store, after receiving the short-range signal from the entity.

LaBiche, in the same field of endeavor, teaches performing by the smartphone a transaction to pay for **one or more** items within the store, after receiving the short-range signal from the entity. (pars [0025-0026] teach providing the portable mobile communications device 100 is provisioned with financial data such as pay transaction, i.g., credit card account data, bank account debit card data, and/or specific vendor credit data, during a near field RF commercial transaction reads on transaction to pay for item).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of DiMartino to LaBiche, in order to provide device-to-device communications that sharing, sending, receiving and/or exchanging data information between the two devices such as the mobile phone and the POS for user's convenient (as suggested by LaBiche in paragraphs [0001-0002]).

Regarding **claims 2 and 6,** the combination of DiMartino and LaBiche teach the method of Claims 1, 5, DiMartino further teaches wherein establishing the wireless short-range communications link between the smartphone and the entity is performed in

response to a physiological parameter (col, 8, line 55 to col. 9, line 44 teach configured the parameter values over the air interface in response the interaction based on the transaction reads on a physiological parameter).

Regarding **claims 3 and 7,** the combination of DiMartino and LaBiche teach the method of Claim 1, 5, DiMartino further teaches wherein performing by the smartphone the transaction to pay for the **one or more** items is performed in response to a physiological parameter (col, 8, line 55 to col. 9, line 44 teach configured the parameter values over the air interface in response the interaction based on the transaction reads on a physiological parameter).

Regarding **claims 4 and 8,** the combination of DiMartino and LaBiche teach the method of Claim 1, 5, DiMartino further teaches wherein performing by the smartphone the transaction to pay for the **one or more** items is performed in response to a value of a parameter associated with the smartphone (col, 8, line 55 to col. 9, line 44 teach configured the parameter values over the air interface in response the interaction based on the transaction that associated between devices, e.g., mobile phone and POS).

Regarding to **claim 5**, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL T VU whose telephone number is (571)272-8131. The examiner can normally be reached on 8:00AM to 6:00PM.

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, Charles Appiah can be reached on (571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MICHAEL T VU/

Primary Examiner, Art Unit 2641

Notice of References Cited	Application/Control No. 16/251,834	Applicant(s)/Patent Under Reexamination Karabinis et al.	
	Examiner MICHAEL T VU	Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-8249935-B1	08-2012	DiMartino; Allison	G06Q20/204	705/16
*	B	US-20080140667-A1	06-2008	LaBiche; Maurice Jerome	G06Q30/06	1/1
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	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 MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/251,834	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

CPC - Searched*		
Symbol	Date	Examiner
h04W 48/04	05/07/2019	MTV

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
Inventor Name: Peter Karabinis	05/07/2019	MTV
Assignee: Telcom Ventures	05/07/2019	MTV
Double Patent Rejected	05/07/2019	MTV
EAST Searched System	05/07/2019	MTV

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/251,834	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	05/07/2019								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Karabinis, Peter D.
Art Unit	2641
Examiner Name	VU, MICHAEL T
Attorney Docket Number	9466-24TSCT3 (B)

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6944981		2005-09-20	GARBERG DENNIS D; et al.	
	2	7503504		2009-03-17	MITRA TWISAMPATI	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M. T. V./

IPR2025-01235
Apple EX1002 Page 81

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Karabinis, Peter D.
Art Unit	2641
Examiner Name	VU, MICHAEL T
Attorney Docket Number	9466-24TSCT3 (B)

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/MICHAEL T VU/	Date Considered	05/08/2019

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M. T. V./

IPR2025-01235
Apple EX1002 Page 82

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Karabinis, Peter D.
Art Unit	2641
Examiner Name	VU, MICHAEL T
Attorney Docket Number	9466-24TSCT3 (B)

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Vernon H. Guthrie/	Date (YYYY-MM-DD)	2019-04-17
Name/Print	Vernon H. Guthrie	Registration Number	63798

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M. T. V./

IPR2025-01235
Apple EX1002 Page 83

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 record s.

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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

IPR2025-01235
Apple EX1002 Page 84

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Karabinis, Peter D.
Art Unit	
Examiner Name	
Attorney Docket Number	9466-24TSCT3 (A)

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6595929		2003-07-22	STIVORIC JOHN M; et al.	
	2	6769607		2004-08-03	PITRODA SATYAN G; et al.	
	3	6957107		2005-10-18	ROGERS BOBBY E; et al.	
	4	7028897		2006-04-18	FERNANDES JORGE M; et al.	
	5	7133659		2006-11-07	ZALEWSKI THOMAS W; et al.	
	6	7155199		2006-12-26	ZALEWSKI THOMAS W; et al.	
	7	RE 39736		2007-07-17	MORRILL, JR.	
	8	7539241		2009-05-26	DICK CHRISTOPHER H	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

IPR2025-01235
Apple EX1002 Page 85

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

	9	7780081		2010-08-24	LIANG ROBERT C	
	10	7822644		2010-10-26	ALBERTH JR WILLIAM P; et al.	
	11	7912629		2011-03-22	SUTTER DAVID WILLIAM; et al.	
	12	8023580		2011-09-20	BREMER GORDON F	
	13	8463238		2013-06-11	FORSTALL SCOTT; et al.	
	14	8532069		2013-09-10	BALWANI RAMESH	
	15	8646060		2014-02-04	BEN AYED MOURAD	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20030220105		2003-11-27	DAIGREMONT JOHANN; et al.	
	2	20040030601		2004-02-12	POND RUSSELL L; et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M. T. V./

IPR2025-01235
Apple EX1002 Page 86

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

	3	20040143505		2004-07-22	KOVACH ARAM	
	4	20040170430		2004-09-02	GOROKHOV ALEXEI	
	5	20060009234		2006-01-12	FREER CARL J	
	6	20060085297		2006-04-20	MINERLEY KEVIN G	
	7	20060133633		2006-06-22	HYVONEN LASSI; et al.	
	8	20060145893		2006-07-06	HASSETT JOHN J	
	9	20060159260		2006-07-20	PEREIRA LUIS R; et al.	
	10	20060172700		2006-08-03	WU PETER	
	11	20060194538		2006-08-31	PALIN ARTO; et al.	
	12	20070129077		2007-06-07	IGUCHI MASAYUKI; et al.	
	13	20070167147		2007-07-19	KRASNER NORMAN F; et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M. T. V./

IPR2025-01235
Apple EX1002 Page 87

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

	14	20070178935		2007-08-02	SHIM CHUNG SEOB; et al.	
	15	20070184837		2007-08-09	HOHL FRITZ; et al.	
	16	20070197261		2007-08-23	HUMBEL ROGER M	
	17	20070243872		2007-10-18	GALLAGHER MICHAEL D; et al.	
	18	20070250393		2007-10-25	ALBERTH JR WILLIAM P; et al.	
	19	20070260710		2007-11-08	DOWLING ERIC MORGAN	
	20	20070265984		2007-11-15	SANTHANA PRAKASH	
	21	20070285280		2007-12-13	ROBINSON BENJAMIN P; et al.	
	22	20080040274		2008-02-14	UZO CHIJIOKE CHUKWUEMEKA	
	23	20080140868		2008-06-12	KALAYJIAN NICHOLAS; et al.	
	24	20080146148		2008-06-19	HULVEY ROBERT WILLIA	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M. T. V./

IPR2025-01235
Apple EX1002 Page 88

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

	25	20080167966		2008-07-10	RAMSDALE DAVID; et al.	
	26	20080200166		2008-08-21	MCCAMON MICHAEL G	
	27	20080227471		2008-09-18	DANKAR AJAY; et al.	
	28	20080306868		2008-12-11	ROBINSON BENJAMIN P; et al.	
	29	20090023474		2009-01-22	LUO XUN; et al.	
	30	20090113543		2009-04-30	ADAMS NEIL P; et al.	
	31	20090153367		2009-06-18	LEE YONG WHI	
	32	20090169070		2009-07-02	FADELL ANTHONY	
	33	20090213947		2009-08-27	RAO RAGHAVENDAR M; et al.	
	34	20100067591		2010-03-18	LUO TAO; et al.	
	35	20100265845		2010-10-21	LAMPEN PATRIK	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH /M. T. V./

IPR2025-01235
Apple EX1002 Page 89

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

	36	20110314539		2011-12-22	HORTON MICHAEL	
	37	20120214443		2012-08-23	DAIGLE MARK R	
	38	20130156218		2013-06-20	ANNACONE WILLIAM R; et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	"Digital wallet" Wikipedia (4 pages) (Printed on July 10, 2017)	
	2	International Search Report and Written Opinion of the International Searching Authority for corresponding PCT Application No. PCT/US09/062792 (8 pages) (December 23, 2009)	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/MICHAEL T VU/	Date Considered	05/08/2019

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a 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. /M T V/

IPR2025-01235
Apple EX1002 Page 90

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Karabinis, Peter D.
	Art Unit	
	Examiner Name	
	Attorney Docket Number	9466-24TSCT3 (A)

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V./

IPR2025-01235
Apple EX1002 Page 91

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Karabinis, Peter D.
Art Unit	
Examiner Name	
Attorney Docket Number	9466-24TSCT3 (A)

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Vernon H. Guthrie/	Date (YYYY-MM-DD)	2019-01-18
Name/Print	Vernon H. Guthrie	Registration Number	63798

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

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 record s.

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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

IPR2025-01235
Apple EX1002 Page 93

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1	"08249935"	USPAT	OR	OFF	2019/05/08 15:18
L3	52	(cellular portable mobule pda iphone ipad) near15 ((transaction pay$3 check$3 adj out)) near9 (item product) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/08 16:06
L4	10	3 AND ((H04W12/08 OR H04W12/12 OR H04W4/02 OR H04W12/0013 OR H04W12/0023 OR H04W12/02 OR H04W4/50 OR H04W4/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/08 16:06
S1	29754	local near8 activat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/30 15:57
S2	5	local near8 activat$3 same (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/30 15:58
S4	2694	(local WLAN) same (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:10
S5	460	connect$4 near6 (local WLAN) same (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:11
S6	11	connect$4 near6 (local WLAN) same determin$4 with (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/05/31 06:11

			IBM_TDB			
S7	87	S5 AND ((H04W84/12 OR H04W12/08 OR H04W24/02 OR H04W24/08 OR H04W4/26 OR H04W28/0215 OR H04W28/0268 OR H04W28/0289 OR H04W28/12 OR H04W36/14 OR H04W4/001 OR H04W80/04 OR H04W84/042 OR H04W24/00 OR H04W28/021 OR H04W28/0221 OR H04W28/0247 OR H04W28/0257 OR H04W28/0284 OR H04W28/20 OR H04W48/04 OR H04W48/06 OR H04W48/16 OR H04W52/0212 OR H04W52/0264 OR H04W12/00 OR H04W28/02 OR H04W4/24 OR H04W88/06 OR H04W88/08 OR H04W40/02 OR H04W4/008 OR H04W76/02 OR H04W88/12 OR H04W8/02 OR H04W12/02 OR H04W12/06 OR H04W24/04 OR H04W28/08 OR H04W28/10 OR H04W36/26 OR H04W40/12 OR H04W48/14 OR H04W48/20 OR H04W4/005 OR H04W4/006 OR H04W4/02 OR H04W4/023 OR H04W4/06 OR H04W4/12 OR H04W4/18 OR H04W4/20 OR H04W52/0203 OR H04W72/0453 OR H04W76/022 OR H04W80/06 OR H04W84/04 OR H04W84/20 OR H04W88/02 OR H04W88/04 OR H04W88/085 OR H04W88/10 OR H04W8/18 OR H04W8/20).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:12
S8	67	(local WLAN) same indicat$4 same activat$3 and (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:43
S9	21	S8 AND ((H04W76/02 OR H04W88/04 OR H04W4/008 OR H04W88/10 OR H04W12/00 OR H04W88/06 OR H04W16/14 OR H04W28/08 OR H04W28/10 OR H04W40/12 OR H04W48/18 OR H04W4/001 OR H04W4/021 OR H04W4/24 OR H04W88/02 OR H04W88/16 OR H04W12/04 OR H04W12/06 OR H04W12/08 OR H04W28/06 OR H04W4/043 OR H04W52/0209 OR H04W74/00 OR H04W8/26).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:44
S10	9	S8 AND ((G06Q10/06 OR G06Q30/02 OR G06Q30/0233 OR G06Q30/0601 OR G06Q10/02 OR G06Q30/00 OR G06Q30/04 OR G06Q50/30).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:45
S11	8	S8 AND ((G06F1/3203 OR G06F11/1448 OR G06F11/1458 OR G06F11/2294 OR G06F2009/4557 OR	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/06/01 15:45

		G06F2009/45575 OR G06F9/4443 OR G06F9/45558 OR G06F9/4856).CPC.)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S12	2272	((SOUMYA NEAR2 DAS) OR (BONGYONG NEAR2 SONG) OR (SAMIR NEAR3 SOLIMAN)).IN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:46
S13	0	S8 AND S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:46
S14	85	((sari near2 nielsen) or (antti near2 toskala)).in.	USPAT	OR	OFF	2017/06/01 15:48
S15	0	S8 and S14	USPAT	OR	OFF	2017/06/01 15:48
S16	1360	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 12:49
S17	26	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network) same (detect$3 whether) with ((local adj area adj network) WLAN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 12:50
S18	9	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network) same (detect$3 whether) same (indicat$3) same ((local adj area adj network) WLAN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 12:50
S19	6	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network) and (unlicensed adj band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 13:08
S21	30	(UE mobile terminal) same (wide adj area adj network) same activat$3 same ((long adj term adj evolution adj network) LTE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 14:02
S22	100	(UE mobile terminal) same (local adj area adj network) same (indicat$3 with activat$3)	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/11/13 14:33

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S23	115	((terminat$3 end$3) near9 (unlicens$3 adj2 band))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 19:53
S24	43	((terminat$3 end$3) near9 (unlicens$3 adj2 band)) same LTE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 19:54
S26	150	((terminat$3 end$3) near9 ((unlicens$3 adj2 band) LTE-U))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:16
S27	31	UE same ((terminat$3 end$3) near9 ((unlicens$3 adj2 band) LTE-U))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:17
S28	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:20
S29	24	((terminat$3) near9 (unlicens$3 adj2 band))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:31
S30	18	S29 AND ((H04W16/14 OR H04W72/0453 OR H04W28/08 OR H04W84/045 OR H04W84/12 OR H04W88/02 OR H04W88/06 OR H04W72/02 OR H04W72/042 OR H04W72/0446 OR H04W76/06 OR H04W76/30 OR H04W28/26 OR H04W72/0406 OR H04W72/14 OR H04W24/08 OR H04W24/10 OR H04W28/18 OR H04W48/16 OR H04W48/18 OR H04W52/04 OR H04W56/0005 OR H04W60/00 OR H04W64/00 OR H04W72/00 OR H04W72/04 OR H04W72/044 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:35

		H04W72/0486 OR H04W72/1289 OR H04W74/006 OR H04W74/0833 OR H04W74/085 OR H04W76/27 OR H04W88/12 OR H04W8/02 OR H04W92/20).CPC.)				
S31	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:36
S32	8	("20060246903" | "20070281704" | "20080002658" | "20080113624" | "20090054058" | "20110289175" | "6850489" | "8509788").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:36
S33	9	S29 AND ((H04L1/00 OR H04L27/0006 OR H04L27/26 OR H04L5/0048 OR H04L5/001 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/0085 OR H04L5/0091 OR H04L5/14 OR H04L1/0003 OR H04L1/0009 OR H04L1/0061 OR H04L1/18 OR H04L1/1861 OR H04L5/0007 OR H04L5/0044 OR H04L5/0053 OR H04L5/0092).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:37
S34	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:37
S35	131	S26 AND ((H04W16/14 OR H04W74/0808 OR H04W72/0453 OR H04W72/1215 OR H04W84/12 OR H04W72/0446 OR H04W74/0816 OR H04W72/042 OR H04W88/06 OR H04W88/10 OR H04W24/08 OR H04W88/02 OR H04W88/08 OR H04W72/082 OR H04W84/045 OR H04W48/16 OR H04W74/006 OR H04W28/26 OR H04W72/00 OR H04W72/02 OR H04W72/044 OR H04W84/042 OR H04W8/005 OR H04W16/16 OR H04W24/02 OR H04W24/10 OR H04W48/12 OR H04W52/0206 OR H04W52/243 OR H04W56/001 OR H04W72/0406 OR H04W72/0413 OR H04W72/085 OR H04W72/14 OR H04W74/08 OR H04W76/28 OR H04W12/06 OR H04W16/32 OR H04W28/08 OR H04W28/18 OR H04W40/16 OR H04W4/24 OR H04W52/04 OR H04W52/241 OR H04W52/244 OR H04W56/00 OR H04W72/04 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:38

		H04W72/0426 OR H04W72/048 OR H04W72/0486 OR H04W72/1252 OR H04W72/1268 OR H04W74/002 OR H04W74/04 OR H04W74/0833 OR H04W76/15 OR H04W76/27 OR H04W88/12 OR H04W92/20 OR H04W12/08 OR H04W24/00 OR H04W28/14 OR H04W28/16 OR H04W36/22 OR H04W36/385 OR H04W40/244 OR H04W48/00 OR H04W48/20 OR H04W4/02 OR H04W4/20 OR H04W52/143 OR H04W52/281 OR H04W52/367 OR H04W56/0005 OR H04W56/0015 OR H04W60/00 OR H04W64/00 OR H04W72/005 OR H04W72/10 OR H04W72/121 OR H04W72/1247 OR H04W72/1263 OR H04W72/1273 OR H04W72/1289 OR H04W74/004 OR H04W74/008 OR H04W74/06 OR H04W74/0841 OR H04W74/085 OR H04W76/046 OR H04W76/048 OR H04W76/06 OR H04W76/30 OR H04W8/02 OR H04W8/22 OR H04W8/24 OR H04W92/10).CPC.)				
S36	5	("20120039284" | "20130201884" | "20130208587" | "20130315152" | "20150016239").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S37	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S38	13	("20040264475" | "20060194540" | "20070171909" | "20110044218" | "20120051342" | "20120069766" | "20130337821" | "20140044105" | "20150124740" | "20150223075" | "20150271226" | "20150334744" | "6526264").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S39	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S40	8	("20060223448" | "20080122581" | "20110021153" | "20110128895" | "20130163449" | "20160338019" | "20170127449" | "8155102").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S41	1	("20140044105").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S42	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41

		"20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.				
S43	8	("20080108366" | "20110228742" | "20130143502" | "20140044105" | "20150189676" | "20150264699" | "20160294516" | "8792900").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S44	10	("20120120892" | "20130196653" | "20140029535" | "20140187287" | "20140213219" | "20140369329" | "20150009850" | "20150063323" | "8290503" | "8767576").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S45	44	("20090129332" | "20090285169" | "20100172254" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130003591" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130142059" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050146" | "20140050170" | "20140087748" | "20140126403" | "20140301351" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S46	18	("20090197627" | "20100048234" | "20100208685" | "20100273515" | "20110228666" | "20110299479" | "20110300891" | "20120044898" | "20120052891" | "20120100883" | "20120176998" | "20120231834" | "20130034091" | "20130044662" | "20130343219" | "20140080501" | "20140086195" | "20150087352").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S47	4	("20050207381" | "20120076081" | "20130208587" | "20150215100").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S48	61	S26 AND ((H04L5/0048 OR H04L27/0006 OR H04L5/0053 OR H04L5/001 OR H04L5/0055 OR H04L5/0073 OR H04L5/14 OR H04L1/20 OR H04L5/0098 OR H04L1/00 OR H04L1/0003 OR H04L1/0009 OR H04L1/0015 OR H04L27/2601 OR H04L27/2613 OR H04L41/0803 OR H04L5/0007 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/0085 OR H04L5/0091 OR H04L12/1407 OR H04L1/0026 OR H04L1/0027 OR H04L1/0038 OR H04L1/0061 OR	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41

		H04L1/0073 OR H04L1/18 OR H04L1/1861 OR H04L1/1887 OR H04L25/0238 OR H04L25/0242 OR H04L27/2605 OR H04L27/2611 OR H04L27/2626 OR H04L27/2656 OR H04L27/2666 OR H04L27/2675 OR H04L41/0893 OR H04L41/5019 OR H04L43/0894 OR H04L43/10 OR H04L43/16 OR H04L47/29 OR H04L47/52 OR H04L5/00 OR H04L5/0005 OR H04L5/0032 OR H04L5/0035 OR H04L5/005 OR H04L5/0051 OR H04L5/0058 OR H04L5/0092 OR H04L5/08 OR H04L65/102 OR H04L65/1073 OR H04L69/22 OR H04L7/00).CPC.)				
S49	74	("20020156897" | "20020167933" | "20020197991" | "20030114158" | "20030119490" | "20030165124" | "20030176186" | "20040001461" | "20040067753" | "20040072581" | "20040090958" | "20040105416" | "20040142693" | "20040203788" | "20040229621" | "20050018637" | "20050090259" | "20050221828" | "20050271008" | "20060020694" | "20060058032" | "20060073826" | "20060095954" | "20060098598" | "20060111112" | "20060116127" | "20060148479" | "20060223498" | "20060268799" | "20070008885" | "20070026862" | "20070083470" | "20070091839" | "20070173251" | "20070268908" | "20080076420" | "20080091612" | "20080189550" | "20080254833" | "20080259886" | "20080311917" | "20090061863" | "20090092081" | "20090110168" | "20090129338" | "20090219826" | "20090220216" | "20090265542" | "20090287922" | "20100093307" | "20100161638" | "20100190492" | "20100214977" | "20100226347" | "20110055574" | "20110076998" | "20110093945" | "20130324115" | "5406615" | "5475677" | "5854982" | "6493437" | "6647426" | "6680923" | "6922559" | "6925074" | "7127250" | "7283822" | "7308263" | "7324818" | "7565145" | "7623486" | "8340711" | "8738084").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S50	37	("20090129332" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050170" | "20140087748" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42

		"20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.				
S51	22	("20030104849" | "20050089057" | "20060148482" | "20060187952" | "20090122736" | "20100124254" | "20100167742" | "20100177757" | "20100197317" | "20110228666" | "20120015607" | "20120077510" | "20120129522" | "20120207036" | "20130058218" | "20130136097" | "20130344883" | "20140342745" | "20150009871" | "20150156636" | "6295285" | "8478282").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S52	4	("20130203429" | "20140335876" | "20140341135" | "20150223075").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S53	4	("20050207381" | "20120076081" | "20130208587" | "20150215100").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S54	44	("20090129332" | "20090285169" | "20100172254" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130003591" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130142059" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050146" | "20140050170" | "20140087748" | "20140126403" | "20140301351" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S55	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S56	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S57	13	("20040264475" | "20060194540" |	US-PGPUB;	OR	OFF	2018/05/16

		"20070171909" | "20110044218" | "20120051342" | "20120069766" | "20130337821" | "20140044105" | "20150124740" | "20150223075" | "20150271226" | "20150334744" | "6526264").PN.	USPAT; USOCR			20:43
S58	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S59	13	S26 AND ((H04B17/318 OR H04B17/336 OR H04B17/345 OR H04B10/272 OR H04B17/18 OR H04B1/40 OR H04B7/0413 OR H04B7/155 OR H04B7/15535 OR H04B7/2656).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S60	1	("20140044105").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S61	2	("20120051748" | "20120166819").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S62	2	S26 AND ((H04Q11/0067 OR H04Q2011/0081 OR H04Q2011/0084 OR H04Q2011/0088).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44
S63	2	("20120051748" | "20120166819").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44
S64	3	S26 AND ((H04M15/00 OR H04M15/41 OR H04M15/55 OR H04M15/66).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44
S65	74	("20020156897" | "20020167933" | "20020197991" | "20030114158" | "20030119490" | "20030165124" | "20030176186" | "20040001461" | "20040067753" | "20040072581" | "20040090958" | "20040105416" | "20040142693" | "20040203788" | "20040229621" | "20050018637" | "20050090259" | "20050221828" | "20050271008" | "20060020694" | "20060058032" | "20060073826" | "20060095954" | "20060098598" | "20060111112" | "20060116127" | "20060148479" | "20060223498" | "20060268799" | "20070008885" | "20070026862" | "20070083470" | "20070091839" | "20070173251" | "20070268908" | "20080076420" | "20080091612" | "20080189550" | "20080254833" | "20080259886" | "20080311917" | "20090061863" | "20090092081" | "20090110168" | "20090129338" | "20090219826" | "20090220216" | "20090265542" | "20090287922" | "20100093307" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44

		"20100161638" | "20100190492" | "20100214977" | "20100226347" | "20110055574" | "20110076998" | "20110093945" | "20130324115" | "5406615" | "5475677" | "5854982" | "6493437" | "6647426" | "6680923" | "6922559" | "6925074" | "7127250" | "7283822" | "7308263" | "7324818" | "7565145" | "7623486" | "8340711" | "8738084").PN.				
S66	131	S26 AND ((H04W16/14 OR H04W74/0808 OR H04W72/0453 OR H04W72/1215 OR H04W84/12 OR H04W72/0446 OR H04W74/0816 OR H04W72/042 OR H04W88/06 OR H04W88/10 OR H04W24/08 OR H04W88/02 OR H04W88/08 OR H04W72/082 OR H04W84/045 OR H04W48/16 OR H04W74/006 OR H04W28/26 OR H04W72/00 OR H04W72/02 OR H04W72/044 OR H04W84/042 OR H04W8/005 OR H04W16/16 OR H04W24/02 OR H04W24/10 OR H04W48/12 OR H04W52/0206 OR H04W52/243 OR H04W56/001 OR H04W72/0406 OR H04W72/0413 OR H04W72/085 OR H04W72/14 OR H04W74/08 OR H04W76/28 OR H04W12/06 OR H04W16/32 OR H04W28/08 OR H04W28/18 OR H04W40/16 OR H04W4/24 OR H04W52/04 OR H04W52/241 OR H04W52/244 OR H04W56/00 OR H04W72/04 OR H04W72/0426 OR H04W72/048 OR H04W72/0486 OR H04W72/1252 OR H04W72/1268 OR H04W74/002 OR H04W74/04 OR H04W74/0833 OR H04W76/15 OR H04W76/27 OR H04W88/12 OR H04W92/20 OR H04W12/08 OR H04W24/00 OR H04W28/14 OR H04W28/16 OR H04W36/22 OR H04W36/385 OR H04W40/244 OR H04W48/00 OR H04W48/20 OR H04W4/02 OR H04W4/20 OR H04W52/143 OR H04W52/281 OR H04W52/367 OR H04W56/0005 OR H04W56/0015 OR H04W60/00 OR H04W64/00 OR H04W72/005 OR H04W72/10 OR H04W72/121 OR H04W72/1247 OR H04W72/1263 OR H04W72/1273 OR H04W72/1289 OR H04W74/004 OR H04W74/008 OR H04W74/06 OR H04W74/0841 OR H04W74/085 OR H04W76/046 OR H04W76/048 OR H04W76/06 OR H04W76/30 OR H04W8/02 OR H04W8/22 OR H04W8/24 OR H04W92/10).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:46
S67	10	("20120120892" | "20130196653" | "20140029535" | "20140187287" | "20140213219" | "20140369329" | "20150009850" | "20150063323" | "8290503" | "8767576").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47

S68	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S69	8	("20060223448" | "20080122581" | "20110021153" | "20110128895" | "20130163449" | "20160338019" | "20170127449" | "8155102").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S70	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S71	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S72	61	S26 AND ((H04L5/0048 OR H04L27/0006 OR H04L5/0053 OR H04L5/001 OR H04L5/0055 OR H04L5/0073 OR H04L5/14 OR H04L1/20 OR H04L5/0098 OR H04L1/00 OR H04L1/0003 OR H04L1/0009 OR H04L1/0015 OR H04L27/2601 OR H04L27/2613 OR H04L41/0803 OR H04L5/0007 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/0085 OR H04L5/0091 OR H04L12/1407 OR H04L1/0026 OR H04L1/0027 OR H04L1/0038 OR H04L1/0061 OR H04L1/0073 OR H04L1/18 OR H04L1/1861 OR H04L1/1887 OR H04L25/0238 OR H04L25/0242 OR H04L27/2605 OR H04L27/2611 OR H04L27/2626 OR H04L27/2656 OR H04L27/2666 OR H04L27/2675 OR H04L41/0893 OR H04L41/5019 OR H04L43/0894 OR H04L43/10 OR H04L43/16 OR H04L47/29 OR H04L47/52 OR H04L5/00 OR H04L5/0005 OR H04L5/0032 OR H04L5/0035 OR H04L5/005 OR H04L5/0051 OR H04L5/0058 OR H04L5/0092 OR H04L5/08 OR H04L65/102 OR H04L65/1073 OR H04L69/22 OR H04L7/00).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:49
S73	74	("20020156897" | "20020167933" | "20020197991" | "20030114158" | "20030119490" | "20030165124" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50

		"20030176186" | "20040001461" | "20040067753" | "20040072581" | "20040090958" | "20040105416" | "20040142693" | "20040203788" | "20040229621" | "20050018637" | "20050090259" | "20050221828" | "20050271008" | "20060020694" | "20060058032" | "20060073826" | "20060095954" | "20060098598" | "20060111112" | "20060116127" | "20060148479" | "20060223498" | "20060268799" | "20070008885" | "20070026862" | "20070083470" | "20070091839" | "20070173251" | "20070268908" | "20080076420" | "20080091612" | "20080189550" | "20080254833" | "20080259886" | "20080311917" | "20090061863" | "20090092081" | "20090110168" | "20090129338" | "20090219826" | "20090220216" | "20090265542" | "20090287922" | "20100093307" | "20100161638" | "20100190492" | "20100214977" | "20100226347" | "20110055574" | "20110076998" | "20110093945" | "20130324115" | "5406615" | "5475677" | "5854982" | "6493437" | "6647426" | "6680923" | "6922559" | "6925074" | "7127250" | "7283822" | "7308263" | "7324818" | "7565145" | "7623486" | "8340711" | "8738084").PN.				
S74	37	("20090129332" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050170" | "20140087748" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S75	44	("20090129332" | "20090285169" | "20100172254" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130003591" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130142059" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50

		"20140044105" | "20140045494" | "20140050146" | "20140050170" | "20140087748" | "20140126403" | "20140301351" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.				
S76	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S77	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S78	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S79	18	S29 AND ((H04W16/14 OR H04W72/0453 OR H04W28/08 OR H04W84/045 OR H04W84/12 OR H04W88/02 OR H04W88/06 OR H04W72/02 OR H04W72/042 OR H04W72/0446 OR H04W76/06 OR H04W76/30 OR H04W28/26 OR H04W72/0406 OR H04W72/14 OR H04W24/08 OR H04W24/10 OR H04W28/18 OR H04W48/16 OR H04W48/18 OR H04W52/04 OR H04W56/0005 OR H04W60/00 OR H04W64/00 OR H04W72/00 OR H04W72/04 OR H04W72/044 OR H04W72/0486 OR H04W72/1289 OR H04W74/006 OR H04W74/0833 OR H04W74/085 OR H04W76/27 OR H04W88/12 OR H04W8/02 OR H04W92/20).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:51
S80	8	("20060246903" | "20070281704" | "20080002658" | "20080113624" | "20090054058" | "20110289175" | "6850489" | "8509788").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:51
S81	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:51

		"20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.				
S82	891	(terminat$3 stop$4 end$3) near9 (unlicens$3 un-licens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:29
S83	28	(respons$3 respond$3) near9 (terminat$3 stop$4 end$3) near9 (unlicens$3 un-licens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:33
S84	27	S83 AND ((H04W16/14 OR H04W72/0453 OR H04W72/1215 OR H04W72/042 OR H04W74/0808 OR H04W88/12 OR H04W36/14 OR H04W72/1226 OR H04W74/0816 OR H04W76/28 OR H04W84/12 OR H04W88/06 OR H04W28/20 OR H04W36/0038 OR H04W4/24 OR H04W4/80 OR H04W52/0216 OR H04W72/085 OR H04W72/1278 OR H04W74/002 OR H04W76/048 OR H04W76/20 OR H04W76/34 OR H04W84/105 OR H04W8/04 OR H04W8/18 OR H04W8/20 OR H04W8/26 OR H04W28/10 OR H04W52/0229 OR H04W72/0413 OR H04W72/082 OR H04W72/1289 OR H04W72/14 OR H04W76/025 OR H04W76/068 OR H04W76/15 OR H04W76/38 OR H04W88/02 OR H04W88/10 OR H04W92/02).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:34
S85	7	("20060009202" | "20070099653" | "20130003533" | "20150023315" | "20160338096" | "20170279565" | "20170311337").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:35
S86	24	("20080279155" | "20120063373" | "20120082100" | "20120129522" | "20120320874" | "20140003356" | "20140287769" | "20140301351" | "20140342745" | "20140378157" | "20160036617" | "20160095009" | "20160174214" | "20160205562" | "20160219623" | "20160233989" | "20160337867" | "20170079054" | "20170094681" | "20170280341" | "20170339717" | "8670780" | "8855069" | "8934909").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:35
S87	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S88	25	("20060223448" | "20070026868" | "20120077510" | "20130156019" | "20130203458" | "20130294356" | "20130337821" | "20140036818" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36

		"20140036889" | "20140112289" | "20140342745" | "20150085683" | "20150131516" | "20150163681" | "20150181453" | "20150201429" | "20150223244" | "20150237548" | "20150382374" | "20160007368" | "20160135055" | "20160255648" | "20160295588" | "9326157" | "9392614").PN.				
S89	1	("20150223075").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S90	9	("20050025265" | "20100246506" | "20120077510" | "20120129522" | "20130143502" | "20140031054" | "20140112289" | "5850596" | "7512094").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S91	2	("20130203458" | "20150223244").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S92	9	("20040203815" | "20070015536" | "20090196253" | "20090196268" | "20100278141" | "20110003575" | "20110117889" | "20110299511" | "8229440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S93	100	("20010036158" | "20020072364" | "20020085516" | "20020106029" | "20030032440" | "20030058822" | "20030112796" | "20030119489" | "20030123485" | "20030133423" | "20040008652" | "20040047364" | "20040073424" | "20040090989" | "20040131025" | "20040131051" | "20040192295" | "20040203791" | "20040254786" | "20040264482" | "20050105512" | "20050180456" | "20050195829" | "20050232232" | "20050265279" | "20050267746" | "20050286466" | "20060009202" | "20060050664" | "20060062225" | "20060083199" | "20060092927" | "20060099935" | "20060111112" | "20060142011" | "20060198347" | "20060209799" | "20060229068" | "20060245395" | "20060270411" | "20060276192" | "20060286981" | "20060291454" | "20060291483" | "20070011727" | "20070041360" | "20070043558" | "20070123196" | "20070135165" | "20070140214" | "20070171841" | "20070286082" | "20080039087" | "20080102794" | "20080123596" | "20080151845" | "20080198841" | "5375121" | "5513185" | "5867785" | "5905873" | "5999529" | "6011579" | "6046999" | "6147988" | "6167129" | "6215996" | "6339594" | "6424637" | "6625169" | "6647428" | "6731627" | "6731647" | "6791959" | "6850883" | "6967958" | "6983163" | "6990340" | "7006489" | "7054318" | "7054320" | "7068623" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36

		"7072358" | "7082143" | "7089011" | "7095733" | "7103021" | "7106701" | "7162024" | "7180892" | "7203226" | "7305229" | "7349698" | "7369859" | "7398088" | "7400881" | "7433690" | "7471655" | "7830864" | "7835346").PN.				
S94	13	S83 AND ((H04L1/1812 OR H04L1/0026 OR H04L1/0027 OR H04L1/0073 OR H04L1/1822 OR H04L1/20 OR H04L29/06027 OR H04L65/1043 OR H04L1/1887 OR H04L47/14 OR H04L47/2441 OR H04L47/2491 OR H04L5/001).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S95	7	("20060009202" | "20070099653" | "20130003533" | "20150023315" | "20160338096" | "20170279565" | "20170311337").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S96	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S97	25	("20060223448" | "20070026868" | "20120077510" | "20130156019" | "20130203458" | "20130294356" | "20130337821" | "20140036818" | "20140036889" | "20140112289" | "20140342745" | "20150085683" | "20150131516" | "20150163681" | "20150181453" | "20150201429" | "20150223244" | "20150237548" | "20150382374" | "20160007368" | "20160135055" | "20160255648" | "20160295588" | "9326157" | "9392614").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S98	2	("20130203458" | "20150223244").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:38
S99	100	("20010036158" | "20020072364" | "20020085516" | "20020106029" | "20030032440" | "20030058822" | "20030112796" | "20030119489" | "20030123485" | "20030133423" | "20040008652" | "20040047364" | "20040073424" | "20040090989" | "20040131025" | "20040131051" | "20040192295" | "20040203791" | "20040254786" | "20040264482" | "20050105512" | "20050180456" | "20050195829" | "20050232232" | "20050265279" | "20050267746" | "20050286466" | "20060009202" | "20060050664" | "20060062225" | "20060083199" | "20060092927" | "20060099935" | "20060111112" | "20060142011" | "20060198347" | "20060209799" | "20060229068" | "20060245395" | "20060270411" | "20060276192" | "20060286981" | "20060291454" | "20060291483" | "20070011727" | "20070041360" | "20070043558" | "20070123196" | "20070135165" | "20070140214" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:38

		"20070171841" | "20070286082" | "20080039087" | "20080102794" | "20080123596" | "20080151845" | "20080198841" | "5375121" | "5513185" | "5867785" | "5905873" | "5999529" | "6011579" | "6046999" | "6147988" | "6167129" | "6215996" | "6339594" | "6424637" | "6625169" | "6647428" | "6731627" | "6731647" | "6791959" | "6850883" | "6967958" | "6983163" | "6990340" | "7006489" | "7054318" | "7054320" | "7068623" | "7072358" | "7082143" | "7089011" | "7095733" | "7103021" | "7106701" | "7162024" | "7180892" | "7203226" | "7305229" | "7349698" | "7369859" | "7398088" | "7400881" | "7433690" | "7471655" | "7830864" | "7835346").PN.				
S100	1282274	455/$.ccls. 705/$.ccls. 379/$.ccls. 370/$.ccls. 709/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:42
S101	1	S83 AND ((G06F21/10 OR G06F21/105).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:43
S102	1	S83 AND ((G06Q10/10 OR G06Q30/06).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:43
S103	353	S82 and S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:44
S104	350	(determin$3 detect$3) same (terminat$3 stop$4 end$3) near9 (unlicens$3 un-licens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:45
S105	130	S100 and S104	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:46
S106	103	S105 AND ((H04W16/14 OR	US-PGPUB;	OR	OFF	2018/05/17

		H04W84/12 OR H04W72/0453 OR H04W48/16 OR H04W52/367 OR H04W72/042 OR H04W52/146 OR H04W74/002 OR H04W74/0808 OR H04W4/02 OR H04W56/001 OR H04W72/02 OR H04W72/04 OR H04W74/0816 OR H04W24/02 OR H04W28/08 OR H04W48/14 OR H04W52/243 OR H04W72/0406 OR H04W72/0426 OR H04W72/048 OR H04W72/082 OR H04W8/005 OR H04W16/16 OR H04W24/08 OR H04W24/10 OR H04W36/14 OR H04W48/12 OR H04W52/283 OR H04W52/30 OR H04W52/346 OR H04W52/36 OR H04W52/38 OR H04W52/52 OR H04W72/00 OR H04W84/045 OR H04W88/02 OR H04W24/00 OR H04W28/04 OR H04W36/22 OR H04W48/20 OR H04W52/04 OR H04W72/044 OR H04W72/0446 OR H04W72/0486 OR H04W72/1215 OR H04W72/1226 OR H04W72/1247 OR H04W72/1278 OR H04W74/00 OR H04W74/006 OR H04W74/04 OR H04W76/14 OR H04W84/042 OR H04W84/18 OR H04W88/06 OR H04W88/10 OR H04W8/26 OR H04W16/26 OR H04W28/0247 OR H04W28/0278 OR H04W28/06 OR H04W28/20 OR H04W28/26 OR H04W36/0072 OR H04W36/30 OR H04W40/22 OR H04W48/08 OR H04W48/10 OR H04W4/24 OR H04W52/0206 OR H04W52/0225 OR H04W52/0251 OR H04W52/281 OR H04W60/00 OR H04W64/00 OR H04W68/005 OR H04W72/005 OR H04W72/0413 OR H04W72/08 OR H04W72/085 OR H04W72/1263 OR H04W72/1284 OR H04W72/14 OR H04W74/08 OR H04W74/0833 OR H04W74/085 OR H04W76/023 OR H04W76/026 OR H04W76/12 OR H04W76/15 OR H04W76/16 OR H04W76/20 OR H04W76/27 OR H04W76/36 OR H04W80/00 OR H04W88/04 OR H04W88/08 OR H04W8/02 OR H04W8/04 OR H04W8/20).CPC.)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			11:46
S107	54	("20020138756" | "20020199203" | "20030074580" | "20030105978" | "20030135611" | "20040005886" | "20040088565" | "20040107360" | "20040123162" | "20040193907" | "20040221174" | "20050015622" | "20050033596" | "20050044418" | "20050060537" | "20050132225" | "20050138408" | "20050144475" | "20050154885" | "20050166065" | "20050172142" | "20050188065" | "5666411" | "5673322" | "5721779" | "5732074" | "5901284" | "5987611" | "6012100" | "6061650" | "6081508" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47

		"6151628" | "6185609" | "6253327" | "6377982" | "6453035" | "6493349" | "6507908" | "6539482" | "6643782" | "6654891" | "6694437" | "6732270" | "6748543" | "6751729" | "6760444" | "6766453" | "6778498" | "6785823" | "6850943" | "6874139" | "7111324" | "7240015" | "7340770").PN.				
S108	29	("20040192288" | "20080049776" | "4939726" | "5129096" | "5295154" | "5400338" | "5455569" | "5479400" | "5563881" | "5610839" | "5740366" | "5974236" | "5987011" | "6044062" | "6046992" | "6249516" | "6298053" | "6349091" | "6349210" | "6385174" | "6437692" | "6704301" | "6728514" | "6804532" | "6829347" | "6850502" | "6885660" | "6965575" | "6973039").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47
S109	31	("20070079012" | "20070183439" | "20070211866" | "20090116509" | "4939726" | "5129096" | "5295154" | "5400338" | "5455569" | "5479400" | "5563881" | "5610839" | "5740366" | "5974236" | "5987011" | "6044062" | "6046992" | "6249516" | "6298053" | "6349091" | "6349210" | "6385174" | "6437692" | "6704301" | "6728514" | "6804532" | "6829347" | "6850502" | "6885660" | "6965575" | "6973039").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47
S110	60	("20030093526" | "20050003827" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195667" | "20100220687" | "20100229205" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110043710" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47
S111	60	("20030093526" | "20050003827" | "20060034236" | "20060062183" | "20060067354" | "20060218392" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48

		"20070047492" | "20070192472" | "20070253394" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195667" | "20100220687" | "20100229205" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110043710" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.				
S112	11	("20020168993" | "20040127240" | "20040137905" | "20040180652" | "20050059422" | "20060018284" | "20070049239" | "20110306375" | "20120093092" | "8130708" | "8203987").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S113	6	("20060073827" | "20080205358" | "20090061783" | "20110110349" | "20110116458" | "20110280228").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S114	71	("20020154653" | "20030050012" | "20030093526" | "20050003827" | "20050070279" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080130519" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195667" | "20100220687" | "20100229205" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110019649" | "20110043710" | "20110045781" | "20110090887" | "20110090890" | "20110116458" | "20110222488" | "20110243078" | "20110286405" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48

		"20120063364" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "20130114586" | "20130142132" | "6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.				
S115	74	("20020154653" | "20030050012" | "20030093526" | "20050003827" | "20050070279" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080130519" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090253392" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195595" | "20100195667" | "20100220687" | "20100229205" | "20100240407" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110019649" | "20110043710" | "20110045781" | "20110090887" | "20110090890" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120063364" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "20130114586" | "20130142132" | "6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S116	10	("20020006788" | "20030207683" | "20090258603" | "20100128565" | "20110087639" | "20110116458" | "20110310253" | "20120008604" | "20120134328" | "20120282959").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S117	3	("20080130564" | "20080261563" | "20110216743").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S118	10	("20040203815" | "20060223524" | "20090125650" | "20100098011" | "20100191878" | "20100226430" | "20110028102" | "20110141983" | "7054790" | "7512094").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S119	10	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:49

S120	11	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:49
S121	5	("20020082997" | "5790664" | "6343280" | "6697948" | "6810389").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:49
S122	9	S105 AND ((G06Q50/184 OR G06Q30/0222 OR G06Q30/0633 OR G06Q30/02 OR G06Q2220/18).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:50
S123	54	S105 AND ((H04L27/0006 OR H04L5/001 OR H04L5/0048 OR H04L65/60 OR H04L67/1002 OR H04L67/1025 OR H04L67/1038 OR H04L67/104 OR H04L67/1063 OR H04L67/1091 OR H04L67/322 OR H04L67/42 OR H04L51/32 OR H04L5/0085 OR H04L47/10 OR H04L47/14 OR H04L47/2408 OR H04L47/2416 OR H04L47/2441 OR H04L47/2458 OR H04L47/28 OR H04L47/29 OR H04L47/31 OR H04L47/50 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/14 OR H04L67/18 OR H04L67/306 OR H04L12/2898 OR H04L1/0026 OR H04L1/0027 OR H04L1/0073 OR H04L1/1812 OR H04L1/1822 OR H04L1/1835 OR H04L1/1887 OR H04L1/1896 OR H04L1/20 OR H04L27/261 OR H04L43/08 OR H04L47/30 OR H04L5/0007 OR H04L5/003 OR H04L5/0041 OR H04L5/005 OR H04L5/0051 OR H04L5/0053 OR H04L5/0055 OR H04L5/0058 OR H04L5/0062 OR H04L5/0069 OR H04L5/0091 OR H04L5/0094 OR H04L63/0272 OR H04L63/0414 OR H04L63/0428 OR H04L63/083 OR H04L63/102 OR H04L63/164 OR H04L69/16 OR H04L69/168 OR H04L9/3226 OR H04L9/3271).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:51
S124	10	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:52
S125	5	("20020082997" | "5790664" | "6343280" | "6697948" | "6810389").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:52
S127	1	((terminat$3) near9 (unlicens$3 adj2 band)) and (positive adj2 (result report$3)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:55

S128	11	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:02
S129	5	("20020082997" | "5790664" | "6343280" | "6697948" | "6810389").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:02
S130	1	((terminat$3 end$3 stop$4) near10 (unlicens$3 adj2 band)) and (positive adj2 (result report$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:10
S131	361	(UE mobile terminal) same (disconnect$4 terminat$3 end$3 stop$4) near10 (un-licens$3 unlicens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:46
S132	123	(UE mobile terminal) same (determin$4 detect$3) same (disconnect$4 terminat$3 end$3 stop$4) near10 (un-licens$3 unlicens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:47
S133	36	S100 and S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:48
S134	35	S133 AND ((H04W16/14 OR H04W72/0453 OR H04W88/06 OR H04W74/0808 OR H04W84/12 OR H04W56/001 OR H04W84/045 OR H04W84/105 OR H04W4/02 OR H04W88/02 OR H04W24/00 OR H04W24/08 OR H04W28/04 OR H04W28/08 OR H04W36/14 OR H04W48/16 OR H04W4/24 OR H04W72/0446 OR H04W72/0486 OR H04W72/082 OR H04W72/1215 OR H04W72/1226 OR H04W72/1263 OR H04W74/002 OR H04W74/006 OR H04W74/04 OR H04W74/0816 OR H04W76/12 OR H04W76/20 OR H04W84/042 OR H04W8/04 OR H04W8/26 OR H04W24/10 OR H04W28/0247 OR H04W28/06 OR H04W28/20 OR H04W28/26 OR H04W36/22 OR H04W48/10 OR H04W48/12 OR H04W4/04 OR H04W52/0206 OR H04W52/0225 OR H04W52/0251 OR H04W52/04 OR H04W60/00 OR H04W60/04 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:48

		H04W64/00 OR H04W68/005 OR H04W72/00 OR H04W72/005 OR H04W72/02 OR H04W72/04 OR H04W72/0406 OR H04W72/0413 OR H04W72/042 OR H04W72/14 OR H04W74/08 OR H04W74/0833 OR H04W74/085 OR H04W76/023 OR H04W76/026 OR H04W76/14 OR H04W76/16 OR H04W76/27 OR H04W76/30 OR H04W84/16 OR H04W88/08 OR H04W88/10 OR H04W88/12 OR H04W88/16 OR H04W8/02 OR H04W92/02 OR H04W92/06).CPC.)				
S135	3	("20080130564" | "20080261563" | "20110216743").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:48
S136	9	("20040203815" | "20070015536" | "20090196253" | "20090196268" | "20100278141" | "20110003575" | "20110117889" | "20110299511" | "8229440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:49
S137	4	("20040071090" | "20080076386" | "20080115009" | "20080293407").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:49
S138	18	S133 AND ((H04L5/001 OR H04L27/0006 OR H04L5/0048 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/14 OR H04L63/164 OR H04L67/18 OR H04L67/306 OR H04L1/1812 OR H04L1/1822 OR H04L1/1835 OR H04L1/1887 OR H04L1/1896 OR H04L27/261 OR H04L47/30 OR H04L5/0007 OR H04L5/0041 OR H04L5/0051 OR H04L5/0053 OR H04L5/0055 OR H04L5/0062 OR H04L5/0069 OR H04L5/0085 OR H04L5/0091 OR H04L5/0094 OR H04L63/0272 OR H04L63/0428).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:49
S139	3	("20080130564" | "20080261563" | "20110216743").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:50
S140	3	S133 AND ((H04B7/2656 OR H04B1/7087).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:50
S141	2	S133 AND ((G06Q30/02).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:50
S142	415	sensor same price with item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 16:00
S143	30	sensor same price with item near9 store	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/05/17 16:00

			EPO; JPO; DERWENT; IBM_TDB			
S144	730	authorization same different near8 protocol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:06
S145	130	authorization same different near8 protocol same (mobile phone cellular pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:06
S146	42	authorization same different near8 protocol same (mobile phone cellular pda iphone ipad) and (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:07
S147	468	enabling near6 mode same (mobile phone cellular pda iphone ipad) and (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:24
S148	33	enabling near6 mode same (mobile phone cellular pda iphone ipad) same (short adj3 range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:26
S149	2	"09832708"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:38
S150	1	"09462411"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:42
S151	1	15/800885	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:29
S152	1	15/800885 and involv$3	US-PGPUB; USPAT;	OR	OFF	2018/08/06 15:29

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S153	1	15/800885 and (first adj2 interfac$3) and (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:31
S154	1	15/800885 andentity and (first adj2 interfac$3) and (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:45
S156	1	15/800885 and entity and (first adj2 interfac$3) and (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:46
S157	3472	(first adj2 interfac$3) same (second adj3 interfac$3) same independent$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:48
S158	10	(first adj2 interfac$3) same (second adj3 interfac$3) same independent$3 near8 entity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:50
S159	15	(first adj2 interfac$3) same (second adj3 interfac$3) same (short adj2 range) same (access adj point)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:19
S161	153	(first adj2 interfac$3) same (second adj3 interfac$3) and (short adj2 range) same (person animal (shopping adj card))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:26
S162	102813	(first adj2 interfac$3) same (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:28

S163	386	(first adj2 interfac$3) same (second adj3 interfac$3) and (first adj time adj interval) and (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:29
S164	368	(first adj2 interfac$3) same (second adj3 interfac$3) and (first adj time adj interval) same (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:32
S165	61	(first adj2 interfac$3) same (second adj3 interfac$3) same (first adj time adj interval) same (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:35
S166	30	(first adj air adj interfac$3) same (second adj air adj interfac$3) and (first adj time adj interval) same (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:42
S167	0	absent near4 involv$3 near8 ((base adj station) (access adj point))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:22
S168	0	absent near4 involv$3 same ((base adj station) (access adj point))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:23
S169	170	(absent stop$4) near4 involv$3 same ((base adj station) (access adj point))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:23
S170	11	2007/0129077	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:33
S171	1	11/584455	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/08/06 18:33

			DERWENT; IBM_TDB			
S172	19	(first adj2 interfac$3) same (second adj3 interfac$3) same (short adj2 range) same (person animal vehicle (shopping adj card))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/07 17:34
S173	10	S172 AND ((H04W84/12 OR H04W88/04 OR H04W48/18 OR H04W28/0231 OR H04W52/0229 OR H04W52/0274 OR H04W84/042 OR H04W88/06 OR H04W88/16 OR H04W92/02 OR H04W4/008 OR H04W4/02 OR H04W4/21 OR H04W4/80 OR H04W76/025 OR H04W76/10 OR H04W76/15 OR H04W84/10).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/07 17:34
S174	48	("20030220105" | "20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20060194538" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070243872" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8023580" | "8463238" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT	OR	OFF	2018/08/08 12:53
S175	1320305	455/$.ccls. 370/$.ccls. 379/$.ccls. 709/$.ccls. 705/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:20
S176	296	(physiological adj2 parameter) same (proximit$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:22
S177	11	S176 AND ((H04W4/90 OR H04W4/80 OR H04W4/02 OR H04W76/14).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:22

S178	236	("20020001367" | "20020027975" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050104745" | "20050151642" | "20060293024" | "20070030146" | "20070033095" | "20070049287" | "20070053308" | "20070058528" | "20070060097" | "20070161383" | "20070164872" | "20070218895" | "20080019268" | "20080063153" | "20080081646" | "20080166990" | "20080194238" | "20080294058" | "20090186596" | "20090257345" | "20090322513" | "20100002846" | "20100156626" | "20100159976" | "20100166153" | "20100202368" | "20100238018" | "20100262668" | "20110009086" | "20110071880" | "20110086607" | "20110103266" | "20110134897" | "20110153368" | "20110201357" | "20110263219" | "20120002792" | "20120028599" | "20120029970" | "20120092161" | "20120144019" | "20120202428" | "20120210325" | "20120218102" | "20120257729" | "20120289243" | "20120295575" | "20120309341" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130138791" | "20130183924" | "20130185368" | "20130203373" | "20130203376" | "20130226369" | "20130237175" | "20130237181" | "20130331055" | "20140051379" | "20140086108" | "20140087680" | "20140113606" | "20140126356" | "20140148120" | "20140155018" | "20140199959" | "20140248848" | "20140324351" | "20150029836" | "20150055453" | "20150081209" | "20150109125" | "20150111524" | "20150137972" | "20150172897" | "20150181401" | "20150289121" | "20150304827" | "20150317392" | "20150350262" | "20150358794" | "20150365319").PN. OR ("20160004224" | "20160026768" | "20160050550" | "20160088455" | "20160219084" | "20160219397" | "20160269535" | "20160307436" | "20160315923" | "20160337831" | "20160345171" | "20160363931" | "20170004427" | "20170140637" | "20170142568" | "20170150335" | "20170161614" | "20170164175" | "20170171735" | "20170180486" | "20170180963" | "20170180966" | "20170195475" | "20170213251" | "20170238129" | "20170238136" | "20170245113" | "20180020091" | "20180039737" | "20180077282" | "20180242133" | "20180249315" | "5013271" | "5022878" | "5379337" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23

		"5479482" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6600812" | "6628933" | "7058385" | "7224773" | "7324801" | "7349706" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7519372" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8068881" | "8102972" | "8126424" | "8150367" | "8165560" | "8165562" | "8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8484352" | "8489062" | "8509729" | "8516122" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8751265" | "8760290" | "8811935" | "8825687" | "8848877").PN. OR ("8866606" | "8868028" | "8880021" | "8890685" | "8948732" | "8971839" | "8984143" | "9008078" | "9019870" | "9071643" | "9077676" | "9078092" | "9094816" | "9167379" | "9244922" | "9258680" | "9277389" | "9351142" | "9369847" | "9402159" | "9503876" | "9544750" | "9591467" | "9635534" | "9659484" | "9693213" | "9736670" | "9756169" | "9805430").PN.				
S179	145	("20020001367" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20060293024" | "20070033095" | "20070053308" | "20070058528" | "20070161383" | "20080019268" | "20080081646" | "20080294058" | "20090257345" | "20090322513" | "20100002846" | "20100159976" | "20100238018" | "20110086607" | "20110134897" | "20110153368" | "20110263219" | "20120002792" | "20120029970" | "20120202428" | "20120210325" | "20120218102" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130138791" | "20130183924" | "20130203373" | "20130203376" | "20130226369" | "20140051379" | "20140113606" | "20140126356" | "20140148120" | "20140155018" | "20140199959" | "20140248848" | "20150055453" | "20150109125" | "20150111524" | "20150137972" | "20150172897" | "20150289121" | "20150350262" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23

		"20150358794" | "20150365319" | "20160026768" | "20160050550" | "20160088455" | "20160219084" | "20160269535" | "20160307436" | "20160363931" | "20170004427" | "20170150335" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560").PN. OR ("8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "8890685" | "9008078" | "9019870" | "9094816" | "9258680" | "9351142" | "9369847" | "9402159" | "9544750" | "9635534" | "9693213").PN.				
S180	112	("20020120698" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20070033095" | "20070053308" | "20080081646" | "20080294058" | "20090322513" | "20100002846" | "20100159976" | "20110086607" | "20110134897" | "20110153368" | "20120002792" | "20120029970" | "20120202428" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130203373" | "20130226369" | "20140051379" | "20140113606" | "20140148120" | "20140199959" | "20150137972" | "20150172897" | "20150350262" | "20150358794" | "20160026768" | "20160050550" | "20160088455" | "20160269535" | "20160307436" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23

		"8150367" | "8165560" | "8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "9008078" | "9019870" | "9258680" | "9369847" | "9544750").PN.				
S181	15	("20010049544" | "20020013518" | "20030146847" | "20040088027" | "20050102167" | "20050115561" | "5912656" | "6198394" | "6269339" | "6551243" | "6589172" | "6697103" | "6733495" | "6735630" | "6954148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23
S182	15	S175 and S176	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23
S183	11	S182 AND ((G06F19/00 OR G06F19/3418 OR G06F19/3475 OR G06F19/30).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:24
S184	31	("20020013518" | "20030009154" | "20030181815" | "20030216625" | "20040059205" | "20040073093" | "20050094705" | "3943918" | "4321933" | "4747413" | "4958645" | "5153584" | "5365217" | "5458123" | "5748103" | "6072396" | "6102856" | "6238337" | "6416471" | "6529164" | "6579231" | "6589170" | "6856832" | "6870484" | "6894975" | "6897788" | "6970097" | "6982639" | "7109859" | "7218938" | "7993266").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:24
S185	15	("20010049544" | "20020013518" | "20030146847" | "20040088027" | "20050102167" | "20050115561" | "5912656" | "6198394" | "6269339" | "6551243" | "6589172" | "6697103" | "6733495" | "6735630" | "6954148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:28
S186	8	S182 AND ((G06Q50/22 OR G06Q50/24 OR G06Q10/06311 OR G06Q10/1097 OR G06Q30/02 OR G06Q30/0269).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:28
S187	15	("20010049544" | "20020013518" | "20030146847" | "20040088027" | "20050102167" | "20050115561" | "5912656" | "6198394" | "6269339" | "6551243" | "6589172" | "6697103" | "6733495" | "6735630" | "6954148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:29
S188	4	S182 AND ((H04L67/12 OR H04L29/12783 OR H04L51/046 OR H04L61/35 OR H04L67/14 OR H04L67/30).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:29
S189	3	S182 AND ((H04W4/02 OR	US-PGPUB;	OR	OFF	2018/12/27

		H04W36/14 OR H04W48/16 OR H04W76/10 OR H04W84/10 OR H04W84/12 OR H04W88/02 OR H04W88/06).CPC.)	USPAT; USOCR			15:29
S190	22	("20010034475" | "20020013518" | "20020084698" | "20020115914" | "20030206116" | "20030220673" | "20040004460" | "20040147818" | "20050138428" | "6213942" | "6221012" | "6497656" | "6525854" | "6544174" | "6589170" | "6616606" | "6654631" | "6749566" | "6819013" | "6870475" | "7061924" | "7316648").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:30
S191	2	S182 AND ((H04M1/663 OR H04M1/725 OR H04M1/72527 OR H04M1/7253 OR H04M1/72569 OR H04M2250/10 OR H04M2250/12).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:30
S192	22	("20010034475" | "20020013518" | "20020084698" | "20020115914" | "20030206116" | "20030220673" | "20040004460" | "20040147818" | "20050138428" | "6213942" | "6221012" | "6497656" | "6525854" | "6544174" | "6589170" | "6616606" | "6654631" | "6749566" | "6819013" | "6870475" | "7061924" | "7316648").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:30
S193	0	(proximit$3) and "6"$phone and entity and (physiological adj2 parameter) and (first adj air adj interface) and (second adj air adj interface) and absent and ((unlicens$3 licens$3) near4 (frequenc$3 bandwidth band))"clm."	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:34
S194	0	(absent stop$4) same (entity (base adj station) (access adj point)) same "6"$phone same (first adj2 interfac$3) same (second adj2 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:36
S195	0	(absent stop$4) same (entity (base adj station) (access adj point)) same "6"$phone and (first adj2 interfac$3) same (second adj2 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:37
S196	3	S176 AND ((H04Q2213/13092 OR H04Q2213/13098 OR H04Q2213/13103 OR H04Q2213/13104 OR H04Q2213/13389 OR H04Q3/00).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:46
S197	7	S176 AND ((H04M1/72536 OR H04M2242/04 OR H04M2242/15 OR H04M3/5116 OR H04M11/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/12/27 15:47

			EPO; JPO; DERWENT; IBM_TDB			
S198	236	("20020001367" | "20020027975" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050104745" | "20050151642" | "20060293024" | "20070030146" | "20070033095" | "20070049287" | "20070053308" | "20070058528" | "20070060097" | "20070161383" | "20070164872" | "20070218895" | "20080019268" | "20080063153" | "20080081646" | "20080166990" | "20080194238" | "20080294058" | "20090186596" | "20090257345" | "20090322513" | "20100002846" | "20100156626" | "20100159976" | "20100166153" | "20100202368" | "20100238018" | "20100262668" | "20110009086" | "20110071880" | "20110086607" | "20110103266" | "20110134897" | "20110153368" | "20110201357" | "20110263219" | "20120002792" | "20120028599" | "20120029970" | "20120092161" | "20120144019" | "20120202428" | "20120210325" | "20120218102" | "20120257729" | "20120289243" | "20120295575" | "20120309341" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130138791" | "20130183924" | "20130185368" | "20130203373" | "20130203376" | "20130226369" | "20130237175" | "20130237181" | "20130331055" | "20140051379" | "20140086108" | "20140087680" | "20140113606" | "20140126356" | "20140148120" | "20140155018" | "20140199959" | "20140248848" | "20140324351" | "20150029836" | "20150055453" | "20150081209" | "20150109125" | "20150111524" | "20150137972" | "20150172897" | "20150181401" | "20150289121" | "20150304827" | "20150317392" | "20150350262" | "20150358794" | "20150365319").PN. OR ("20160004224" | "20160026768" | "20160050550" | "20160088455" | "20160219084" | "20160219397" | "20160269535" | "20160307436" | "20160315923" | "20160337831" | "20160345171" | "20160363931" | "20170004427" | "20170140637" | "20170142568" | "20170150335" | "20170161614" | "20170164175" | "20170171735" | "20170180486" | "20170180963" | "20170180966" | "20170195475" | "20170213251" | "20170238129" | "20170238136" | "20170245113" | "20180020091" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:49

		"20180039737" | "20180077282" | "20180242133" | "20180249315" | "5013271" | "5022878" | "5379337" | "5479482" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6600812" | "6628933" | "7058385" | "7224773" | "7324801" | "7349706" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7519372" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8068881" | "8102972" | "8126424" | "8150367" | "8165560" | "8165562" | "8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8484352" | "8489062" | "8509729" | "8516122" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8751265" | "8760290" | "8811935" | "8825687" | "8848877").PN. OR ("8866606" | "8868028" | "8880021" | "8890685" | "8948732" | "8971839" | "8984143" | "9008078" | "9019870" | "9071643" | "9077676" | "9078092" | "9094816" | "9167379" | "9244922" | "9258680" | "9277389" | "9351142" | "9369847" | "9402159" | "9503876" | "9544750" | "9591467" | "9635534" | "9659484" | "9693213" | "9736670" | "9756169" | "9805430").PN.				
S199	145	("20020001367" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20060293024" | "20070033095" | "20070053308" | "20070058528" | "20070161383" | "20080019268" | "20080081646" | "20080294058" | "20090257345" | "20090322513" | "20100002846" | "20100159976" | "20100238018" | "20110086607" | "20110134897" | "20110153368" | "20110263219" | "20120002792" | "20120029970" | "20120202428" | "20120210325" | "20120218102" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130138791" | "20130183924" | "20130203373" | "20130203376" | "20130226369" | "20140051379" | "20140113606" | "20140126356" | "20140148120" | "20140155018" | "20140199959" | "20140248848" | "20150055453" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:49

		"20150109125" | "20150111524" | "20150137972" | "20150172897" | "20150289121" | "20150350262" | "20150358794" | "20150365319" | "20160026768" | "20160050550" | "20160088455" | "20160219084" | "20160269535" | "20160307436" | "20160363931" | "20170004427" | "20170150335" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560").PN. OR ("8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "8890685" | "9008078" | "9019870" | "9094816" | "9258680" | "9351142" | "9369847" | "9402159" | "9544750" | "9635534" | "9693213").PN.				
S200	112	("20020120698" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20070033095" | "20070053308" | "20080081646" | "20080294058" | "20090322513" | "20100002846" | "20100159976" | "20110086607" | "20110134897" | "20110153368" | "20120002792" | "20120029970" | "20120202428" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130203373" | "20130226369" | "20140051379" | "20140113606" | "20140148120" | "20140199959" | "20150137972" | "20150172897" | "20150350262" | "20150358794" | "20160026768" | "20160050550" | "20160088455" | "20160269535" | "20160307436" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:49

		"7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560" | "8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "9008078" | "9019870" | "9258680" | "9369847" | "9544750").PN.				
S201	3	S176 AND ((H04Q2213/13092 OR H04Q2213/13098 OR H04Q2213/13103 OR H04Q2213/13104 OR H04Q2213/13389 OR H04Q3/00).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:50
S202	65	(first adj2 interfac$3) same (second adj3 interfac$3) same (proximit$3 (short adj2 range)) same (entity person animal vehicle (shopping adj card))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:53
S203	9	S175 and S202	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:53
S204	34	("20010050990" | "20010055396" | "20020049681" | "20020069361" | "20020162003" | "20030028495" | "20030076961" | "20030172122" | "20040109568" | "20050054334" | "20050246533" | "20060015736" | "20060227808" | "20060293035" | "20070022162" | "20070022295" | "20070143596" | "20070220614" | "20080148397" | "20080222425" | "20080288278" | "20090100263" | "20090106557" | "20090113328" | "20100121928" | "20100121931" | "20120143967" | "5872849" | "6009177" | "6202150" | "6389136" | "6463534" | "7082538" | "7243238").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:53
S205	19	("5136646" | "5553145" | "5615269" | "5629982" | "5666420" | "5790665" | "5812670" | "5935246" | "5946396" | "6047242" | "6115699" | "6119108" | "6134326" | "6137884" | "6141750" | "6182142" | "6185683" | "6301660" | "6334118").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S206	13	("4232370" | "4652990" | "5023907" | "5388211" | "5649187" | "5678046" |	US-PGPUB; USPAT;	OR	OFF	2018/12/27 15:55

		"5724425" | "5828751" | "5923763" | "5943423" | "5960085" | "5970143" | "5978475").PN.	USOCR			
S207	8	("5659616" | "5671279" | "5712914" | "5796841" | "5878144" | "5884158" | "5903878" | "5987440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S208	22	("4200770" | "4218582" | "4405829" | "4558176" | "4771461" | "4868877" | "4995082" | "5001752" | "5005200" | "5136643" | "5150411" | "5164988" | "5199070" | "5214700" | "5214702" | "5222140" | "5261002" | "5276737" | "5313521" | "5315658" | "5499295" | "5787172").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S209	5	("20030143987" | "20040090937" | "20050288021" | "20060153133" | "6876642").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S210	2	15/800885	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:42
S211	6	(first adj2 interfac$3) same (second adj3 interfac$3) same (proximit$3 (short adj2 range)) same (entity person animal vehicle (shopping adj card)) and transaction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:55
S212	12	("20060152369" | "20080084312" | "20090117872" | "20110260839" | "20120242294" | "20130265140" | "20130293190" | "20140025444" | "20140340267" | "20140364772" | "20150119728" | "20150154490").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:56
S213	48	("20030220105" | "20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20060194538" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070243872" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8023580" | "8463238" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:56
S214	43	("20040030601" | "20040170430" | "20060009234" | "20060133633" |	US-PGPUB; USPAT;	OR	OFF	2018/12/28 10:56

		"20060145893" | "20060159260" | "20060172700" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8532069" | "8646060" | "RE39736").PN.	USOCR			
S215	4	S211 AND ((H04W48/04 OR H04W4/02 OR H04W4/023 OR H04W4/80 OR H04W76/10 OR H04W88/06).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S216	5	S211 AND ((G06Q30/0601 OR G06Q10/00).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S217	4	S211 AND ((H04L67/18).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S218	1	S211 AND ((G06F8/60 OR G06F9/24 OR G06F9/48).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S219	48	("20030220105" | "20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20060194538" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070243872" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:59

		"20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8023580" | "8463238" | "8532069" | "8646060" | "RE39736").PN.				
S220	43	("20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:59
S223	7	12/264711 and transaction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:22
S224	1	12/264711 and transaction with store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:23
S225	99	transaction near4 pay$3 with store same item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:27
S226	2	(cellular portable mobule pda iphone ipad) same transaction near4 pay$3 with store same item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:27
S227	1857	(cellular portable mobule pda iphone ipad) same store near8 check$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:29
S228	452	(cellular portable mobule pda iphone	US-PGPUB;	OR	OFF	2019/05/07

		ipad) near9 store near8 check$4	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:29
S230	13	(cellular portable mobule pda iphone ipad) near9 store near8 check$2out same ((short adj range) proximity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:30
S232	914	(cellular portable mobule pda iphone ipad) near15 (transaction pay$3) near8 (item product)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:34
S233	69	(cellular portable mobule pda iphone ipad) near15 (transaction pay$3) near8 (item product) near16 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:37
S234	3	"08249935"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:01
S235	602	(cellular portable mobule pda iphone ipad) same ((transaction pay$3 check$3 adj out)) same (item product) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:04
S236	162	(cellular portable mobule pda iphone ipad) same ((transaction pay$3 check$3 adj out)) near9 (item product) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:05
S238	29	"10219199"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:32

5/ 8/ 2019 4:10:07 PM
C:\ Users\ mvu1\ Documents\ EAST\ Workspaces\ 16251834_Transaction.wsp

UNITED STATES PATENT AND TRADEMARK OFFICE

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
16/251,834	01/18/2019	Peter D. Karabinis	9466-24TSCT3

CONFIRMATION NO. 1391

20792
MYERS BIGEL, P.A.
PO BOX 37428
RALEIGH, NC 27627

PUBLICATION NOTICE

OC00000108729974

Title:MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Publication No.US-2019-0174393-A1
Publication Date:06/06/2019

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

IPR2025-01235
Apple EX1002 Page 137

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
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 displays a valid OMB control number

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

(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: 138517

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:

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):

Telcom Ventures 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		Date (Optional)	6-25-2019
Name	Serge G. Martin		
Title	Executive Vice President - Telcom Ventures 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.**

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

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 01/31/2018. OMB 0651-0035
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 displays a valid OMB control number.

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	16/251,834
Filing Date	2019-01-18
First Named Inventor	Peter D. Karabinis
Title	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.001US5

SIGNATURE of Applicant or Patent Practitioner

Signature	/Aaron W. Pederson/	Date (Optional)	2019-06-25
Name	Aaron Pederson	Registration Number	58607
Title (if Applicant is a juristic entity)			
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.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 01/31/2018. OMB 0651-0035
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 displays a valid OMB control number

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
16/251,834	2019-01-18

(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: 138517

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: 138517

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):

TLV

☐ 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		Date (Optional)	2019-06-25
Name	Peter D. Karabinis		
Title			

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.**

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

PTO/AIA/82C (07-13)
Approved for use through 01/31/2018. OMB 0651-0035
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 displays a valid OMB control number

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

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.

Electronic Acknowledgement Receipt

EFS ID:	36403601
Application Number:	16251834
International Application Number:	
Confirmation Number:	1391
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	20792
Filer:	Aaron Wesley Pederson
Filer Authorized By:	
Attorney Docket Number:	9466-24TSCT3
Receipt Date:	25-JUN-2019
Filing Date:	18-JAN-2019
Time Stamp:	14:28:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	TLV-Post_AIA_POA_SIGNED.pdf	58874 63651f6a448b0083f58113bc773628cf4f20ee3b	no	1

Warnings:

IPR2025-01235
Apple EX1002 Page 143

Information:					
2	Transmittal Letter	1348-001US5_POA_Trans.pdf	212086 4c271c5a1365c8fde9946caf09d1329ec8f51b90	no	4
Warnings:					
Information:					
			Total Files Size (in bytes):	270960	

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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
16/251,834	01/18/2019	Peter D. Karabinis	9466-24TSCT3

CONFIRMATION NO. 1391

POWER OF ATTORNEY NOTICE

20792
MYERS BIGEL, P.A.
PO BOX 37428
RALEIGH, NC 27627

OC000000109207888

Date Mailed: 06/27/2019

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/25/2019.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/cnguyen/

IPR2025-01235
Apple EX1002 Page 145

UNITED STATES PATENT AND TRADEMARK OFFICE

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
16/251,834	01/18/2019	Peter D. Karabinis	1348.001US5

CONFIRMATION NO. 1391

POA ACCEPTANCE LETTER

138517
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

OC00000109207908

Date Mailed: 06/27/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/25/2019.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/cnguyen/

IPR2025-01235
Apple EX1002 Page 146

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	16/251,834
Applicant	:	Telcom Ventures LLC
Filed	:	January 18, 2019
Art Unit	:	2641
Examiner	:	Michael T VU
Confirmation No.:		1391
Docket No.	:	1348.002US5
Customer No.	:	138517
Title	:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

RESPONSE TO NON-FINAL OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Non-Final Office Action mailed May 9, 2019, please consider the following:

Amendments to the Claims, beginning at page 2 of this paper; and

Remarks, beginning on page 8 of this paper.

This paper is accompanied by the fee for a 2-month extension of time, extending the period of response from August 9, 2019 to October 9, 2019. Should any additional fee be deemed to be due for this filing or any other fees required for the subject application, please charge the appropriate amount to Deposit Account No. 502880.

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently Amended) A method of operating a smartphone, the method comprising:

transmitting by the smartphone first data to a first device, the first data relating to a plurality of financial transactions to be conducted;

receiving by the smartphone second data from the first device responsive to said transmitting by the smartphone the first data, the second data relating to the plurality of financial transactions to be conducted and differing from the first data;

performing a first transaction of the plurality of financial transactions by:

detecting by the smartphone that a proximity condition is satisfied between the smartphone and an entity, wherein the entity is distinct from the first device; ~~within a store;~~

establishing, using a first air interface, a wireless short-range communications link between the smartphone and the entity, in response to the proximity condition having been satisfied between the smartphone and the entity;

receiving, using the first air interface, a short-range signal from the entity; and ~~within the store;~~

responsive to receiving the short-range signal from the entity, sending by the smartphone to the entity over the first air interface, information associated with the second data received from the first device; ~~performing by the smartphone a transaction to pay for one or more items within the store, after receiving the short-range signal from the entity;~~ and

independent of performing said first transaction, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface,

wherein said transmitting by the smartphone first data and said receiving by the smartphone second data are performed over an air interface that differs from the first air interface.

~~wherein the wireless short-range communications link used by the first air interface is based upon unlicensed frequencies, and~~

IPR2025-01235
Apple EX1002 Page 148

~~wherein the second air interface uses a wireless communications link that is based upon licensed frequencies.~~

2. (Original) The method of Claim 1, wherein establishing the wireless short-range communications link between the smartphone and the entity is performed in response to a physiological parameter.

3. (Currently Amended) The method of Claim 1, wherein sending by the smartphone to the entity, information associated with the second data, ~~performing by the smartphone the transaction to pay for the one or more items~~ is performed in response to a physiological parameter.

4. (Currently Amended) The method of Claim 1, wherein sending by the smartphone to the entity, information associated with the second data, ~~performing by the smartphone the transaction to pay for the one or more items~~ is performed in response to a value of a parameter associated with the smartphone.

5. (Currently Amended) A smartphone that is configured to perform operations comprising:
transmitting first data to a first device as a precursor to performing a financial transaction;
receiving second data from the first device responsive to said transmitting the first data;
performing a transaction to pay for one or more items by:

detecting by the smartphone that a proximity condition is satisfied between the smartphone and an entity, wherein the entity is distinct from the first device; ~~within a store;~~

establishing, using a first air interface, a wireless short-range communications link between the smartphone and the entity, in response to the proximity condition having been satisfied between the smartphone and the entity;

receiving, using the first air interface, a short-range signal from the entity ~~within the store~~;

responsive to receiving the short-range signal from the entity, sending to the entity over the first air interface, information based on the second data received from the

IPR2025-01235
Apple EX1002 Page 149

first device; ~~performing by the smartphone a transaction to pay for one or more items within the store, after receiving the short-range signal from the entity;~~ and

independent of performing a transaction to pay for one or more items, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface,

wherein said transmitting first data and said receiving second data are performed over an air interface that differs from the first air interface.

~~wherein the wireless short-range communications link used by the first air interface is based upon unlicensed frequencies, and~~

~~wherein the second air interface uses a wireless communications link that is based upon licensed frequencies.~~

6. (Original) The smartphone of Claim 5, wherein establishing the wireless short-range communications link between the smartphone and the entity is performed in response to a physiological parameter.

7. (Currently Amended) The smartphone of Claim 5, wherein sending by the smartphone to the entity, information based on the second data, ~~performing by the smartphone the transaction to pay for the one or more items~~ is performed in response to a physiological parameter.

8. (Currently Amended) The smartphone of Claim 5, wherein sending by the smartphone to the entity, information based on the second data, ~~performing by the smartphone the transaction to pay for the one or more items~~ is performed in response to a value of a parameter associated with the smartphone.

9. (New) A smartphone that is configured to perform operations comprising:

receiving a communications service from a wireless network via a first air interface;

transmitting over the first air interface a request to a first device as a precursor to performing a financial transaction;

receiving from the first device over the first air interface authorization data responsive to the request;

IPR2025-01235
Apple EX1002 Page 150

detecting that a proximity condition is satisfied between the smartphone and an entity, the entity being distinct from the first device;

establishing, using a second air interface, a wireless short-range communications link between the smartphone and the entity, in response to the proximity condition having been satisfied between the smartphone and the entity;

receiving, using the second air interface, a short-range signal from the entity; and

responsive to receiving the short-range signal from the entity, sending over the second air interface, information to at least one unit for performing a transaction to pay for one or more items.

10. (New) The smartphone of claim 9, wherein establishing the wireless short-range communications link between the smartphone and the entity and sending over the second air interface information for performing a transaction is performed in response to a physiological parameter.

11. (New) The smartphone of claim 9, wherein sending over the second air interface information for performing a transaction is performed in response to a physiological parameter.

12. (New) The smartphone of claim 9, wherein sending over the second air interface information for performing a transaction is performed in response to a value of at least one parameter that is associated with the smartphone, an environment thereof and/or a living organism associated therewith.

13. (New) The smartphone according to claim 9, wherein receiving said authorization data is necessary in order to enable the smartphone to pay for a transaction.

14. (New) A smartphone that is configured to perform operations comprising:

transmitting first data to a first device, the first data relating to a plurality of financial transactions to be conducted;

receiving second data from the first device responsive to said transmitting the first data, the second data relating to a plurality of financial transactions to be conducted; and

IPR2025-01235
Apple EX1002 Page 151

performing a first transaction of the plurality of financial transactions by sending to a first entity over a short-range link and over a short-range air interface, information associated with the second data received from the first device;

wherein the first entity is distinct from the first device; and

wherein said transmitting by the smartphone first data and said receiving by the smartphone second data are performed over an air interface that differs from the short-range air interface.

15. (New) The smartphone of claim 14, wherein said performing a first transaction of the plurality of financial transactions by sending to a first entity over a short-range link and over a short-range air interface, information associated with the second data received from the first device, is responsive to a proximity condition having been satisfied between the smartphone and the first entity and is further responsive to a value of at least one parameter that is associated with the smartphone, an environment thereof and/or a living organism associated therewith.

16. (New) The smartphone of claim 15, wherein said value of at least one parameter that is associated with the smartphone, an environment thereof and/or a living organism associated therewith comprises a physiological parameter.

17. (New) The smartphone of claim 14, wherein the operations further comprise:

performing a second transaction of the plurality of financial transactions by sending to a second entity over a short-range link and over a short-range air interface, information associated with the second data received from the first device;

wherein the second entity is distinct from the first device.

18. (New) The smartphone of claim 14, wherein said transmitting first data to a first device comprises transmitting data relating to a request to pay for a plurality of transactions and wherein said receiving second data comprises receiving data relating to an acknowledgement and/or authorization of enabling a mode/function to pay for the plurality of transactions.

IPR2025-01235
Apple EX1002 Page 152

19. (New) The smartphone of claim 14, wherein said transmitting and said receiving that are performed over the air interface that differs from the short-range air interface comprise licensed frequencies; and wherein said short-range link comprises unlicensed frequencies.

IPR2025-01235
Apple EX1002 Page 153

REMARKS

This paper is responsive to the Non-Final Office Action dated May 9, 2019 wherein claims 1-8 were pending and rejected. With this paper, claims 1, 3-5, 7, and 8 are amended and new claims 9-19 are added. Upon entry, claims 1-19 will be pending in this application. Reconsideration and further prosecution of the present application is respectfully requested.

Double Patenting

Claims 1-8 were rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 1, 6, 8-10, 16, and 18-19 of US 10,219,199. Applicant respectfully traverses these rejections.

Independent claims 1 and 5 are amended herein rendering the double patenting rejection moot. Applicant respectfully requests reconsideration and withdrawal of the double patenting rejections to claims 1-8.

Rejections Under 35 U.S.C. § 103

Claims 1-8 were rejected under 35 USC § 103 as being unpatentable over DiMartino et al. (US 8,249,935) in view of LaBiche (US 2008/0140667). Applicant respectfully traverses these rejections.

Claims 1, 3-5, 7 and 8 having now been amended, these rejections are rendered moot. To the extent they are deemed to apply to these claims as amended, and/or the claims dependent therefrom, they are respectfully traversed. For example, neither DiMartino nor LaBiche, nor the combination thereof teach or suggest transmitting by the smartphone first data to a first device, the first data relating to a plurality of financial transactions to be conducted, wherein the transmitting is performed over an air interface that differs from the first air interface over which information is sent with respect to a first transaction. Other language from the claims is also not disclosed. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the rejections to claims 1-8 under 35 USC § 103 with respect to DiMartino and LaBiche.

IPR2025-01235
Apple EX1002 Page 154

SUMMARY

For the reasons set out above, Applicant respectfully submits that the application is in condition for allowance. Favorable reconsideration and allowance of the application are, therefore, respectfully requested.

If the Examiner believes that anything further is necessary to place the application in better condition for allowance, the Examiner is asked to contact Applicant's undersigned representative at the telephone number below.

Customer No. 138517

Date: Oct. 9, 2019

Respectfully submitted,

/Aaron W. Pederson/

Aaron Pederson
Registration No. 58607

Tel No. (612) 436-9609

Attorneys for Applicant
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St., Ste. 4200
Minneapolis, Minnesota 55402

IPR2025-01235
Apple EX1002 Page 155

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US5

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8965281	B2	2015-02-24	Raisanen et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16251834
	Filing Date	2019-01-18
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US5

	1	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/012,513, 12/11/2018, pp. 1-10
	2	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/012,513, 04/12/2019, pp. 1-11
	3	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/012,513, 07/31/2018, pp. 1-8

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16251834
	Filing Date	2019-01-18
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US5

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Aaron W. Pederson/	Date (YYYY-MM-DD)	2019-10-09
Name/Print	Aaron Pederson	Registration Number	58607

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

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 record s.

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.

Electronic Patent Application Fee Transmittal

Application Number:	16251834
Filing Date:	18-Jan-2019
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Filer:	Aaron Wesley Pederson
Attorney Docket Number:	1348.002US5

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
INDEPENDENT CLAIMS IN EXCESS OF 3	1201	1	460	460
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Extension - 2 months with $0 paid	1252	1	600	600
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
		Total in USD ($)		**1300**

Electronic Acknowledgement Receipt

EFS ID:	37406497
Application Number:	16251834
International Application Number:	
Confirmation Number:	1391
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	138517
Filer:	Aaron Wesley Pederson
Filer Authorized By:	
Attorney Docket Number:	1348.002US5
Receipt Date:	09-OCT-2019
Filing Date:	18-JAN-2019
Time Stamp:	12:17:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1300
RAM confirmation Number	E201909C18155290
Deposit Account	502880
Authorized User	Aaron Pederson

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

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		1348-002US5-ResponsetoNFOA_SIGNED.pdf	113207 3779b46a7eae6f735e54b06b195c38cff21a1119	yes	9

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment/Req. Reconsideration-After Non-Final Reject	1	1
Claims	2	7
Applicant Arguments/Remarks Made in an Amendment	8	9

Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	1348002US5-IDS_10-9-2019_SIGNED.pdf	1053312 ccb6828a7cc466ed4d194b1659e2b8b27d81b2b3	no	4
Warnings:					
Information:					
3	Non Patent Literature	2018-07-31_OA-Non-Final-Rejection.pdf	275560 b07d376b491fc2328be15e2cbf78a672501b1664	no	8
Warnings:					
Information:					
4	Non Patent Literature	2018-12-11_OA-Final-Rejection.pdf	336072 2821adc354ac9f7d2a2ee48fd6a95a19d5d15ec4	no	10
Warnings:					
Information:					
5	Non Patent Literature	2019-04-12_OA-Non-Final-Rejection.pdf	404983 e307b4633b1e8d88d6973e15b5428a22ea4fe3c9	no	11

Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	34074 2847b09888b5efc09bfc58b854fd07b87474dcac	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	2217208	

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.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. 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 displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/251,834	Filing Date 01/18/2019	☐ 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 $230 =	
☐ 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	10/09/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 0		x $230 =	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.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ALLYSON PURNELL/
*** 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.**

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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.
16/251,834	01/18/2019	Peter D. Karabinis	1348.002US5	1391

138517 7590 12/17/2019

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

EXAMINER	
VU, MICHAEL T	

ART UNIT	PAPER NUMBER
2641	

NOTIFICATION DATE	DELIVERY MODE
12/17/2019	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):

apederson@carlsoncaspers.com
eofficeaction@appcoll.com
spadilla@carlsoncaspers.com

Office Action Summary	Application No. 16/251,834	Applicant(s) Karabinis et al.	
	Examiner MICHAEL T VU	Art Unit 2641	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 10/09/2019.

☐ 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) 1-19 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) 1-19 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 _____ 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: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 10/09/2019 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Terminal Disclaimer

3. Examiner suggests the Assignee must submit the Terminal Disclaimer accordingly, in order to process of the application promptly (See Non-Final Rejection on 05/09/2019) .

Response to Arguments

4. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

5. Applicant amended claims 1, 3-5, and 7-8.

6. Applicant newly added claims 9-19.

Claim Rejections - 35 USC § 103

7. 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.

8. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 1-19 are rejected under 35 U.S.C. 103 as being unpatentable over Dua (US 2006/0165060), hereinafter "Dua", in view of Creamer et al (US 2004/0143550), hereinafter "Creamer".

Regarding **claim 1,** Dua teaches a method of operating a smartphone (par [0015] teach a mobile device), the method comprising:

transmitting by the smartphone first data to a first device, the first data relating to a plurality of financial transactions to be conducted (pars [0026] [0313] teach a transaction according to the authorization;

receiving by the smartphone second data from the first device responsive to said transmitting by the smartphone the first data (pars [0026] [0313-0317] teach a wallet application on a wireless device that enables transactions response to the transaction

data), the second data relating to the plurality of financial transactions to be conducted and differing from the first data (pars [0026] [0313-0317] teach the plurality of financial transactions based on the authentication);

performing a first transaction of the plurality of financial transactions by (pars [0026] [0313-0317] teach performing the transaction based on the local and remote environments reads on differing data):

detecting by the smartphone that a proximity condition is satisfied between the smartphone and an entity (pars [0025-0026]), wherein the entity is distinct from the first device (pars [0025-0026] [0041], and [0313-0317] the POS and/or the authorization center reads on the entity);

establishing, using a first air interface, a wireless short-range communications link between the smartphone and the entity (pars [0026] [0041], and [0313-0317] teach the short range communications link and the long range communications link, and the connection between the wireless device and the POS and/or the authorization center reads on entity), in response to the proximity condition having been satisfied between the smartphone and the entity (pars [0025-0026] [0041], and [0313-0317] teach response to the short range and the authorization service);

receiving, using the first air interface, a short-range signal from the entity (pars [025-0026] 0041], and [0315-0316] teach receiving the short range signal from the authorization service center reads on entity); and

responsive to receiving the short-range signal from the entity (pars [0025-0026] [0041] teach the short range and the authorization service), sending by the smartphone to the entity over the first air interface (pars [0025-0026], and [0041]), information

associated with the second data received from the first device ([0025-0026] 0041], and [0315-0316] teach the authorization service for conducting the transaction); and

Dua does not explicitly teach independent of performing said first transaction, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface,

wherein said transmitting by the smartphone first data and said receiving by the smartphone second data are performed over an air interface that differs from the first air interface.

Creamer, in the same field of endeavor, teaches independent of performing said first transaction, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface (pars [0012-0013] [0029], and [0041] teach the short range and long range interfaces), wherein said transmitting by the smartphone first data and said receiving by the smartphone second data are performed over an air interface that differs from the first air interface (pars [0012-0013], and [0029] teach provides transaction authorization to pay for the merchant).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Dua to Creamer, in order to provide using a wireless communications device and electronic wallets to initiate and perform financial transactions, in which allow consumers to more easily conduct commerce over computer networks for user's convenient (as suggested by Creamer in paragraphs [0002-0004-0002]).

Regarding **claims 2 and 6,** the combination of Dua and Creamer teach the method of Claims 1, 5, Dua further teaches wherein establishing the wireless short-range communications link between the smartphone and the entity is performed in response to a physiological parameter (pars [0026] [0089], and [0495] teach the service parameters interaction based on the transaction reads on a physiological parameter).

Regarding **claims 3 and 7,** the combination of Dua and Creamer teach the method of Claims 1, 5, Dua further teaches wherein sending by the smartphone to the entity, information associated with the second data is performed in response to a physiological parameter (pars [0026] [0089], and [0495] teach the service parameters interaction based on the transaction reads on a physiological parameter).

Regarding **claims 4 and 8,** the combination of Dua and Creamer teach the method of Claims 1, 5, Dua further teaches wherein sending by the smartphone to the entity, information associated with the second data is performed in response to a value of a parameter associated with the smartphone (pars [0026] [0089], and [0495] teach the service parameters interaction based on the transaction reads on a physiological parameter, in response the interaction based on the transaction that associated between devices, e.g., mobile phone and POS).

Regarding to **claim 5**, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Regarding **claim 9,** Dua teaches a smartphone that is configured to perform operations comprising:

receiving a communications service from a wireless network via a first air interface (pars [0022-0026]);

transmitting over the first air interface a request to a first device as a precursor to performing a financial transaction (pars [0022-0026], and [0041] teach conducting a r transactions requiring authorization);

receiving from the first device over the first air interface authorization data responsive to the request (pars [0022-0026], and [0041] teach conducting the transactions requiring authorization);;

detecting that a proximity condition is satisfied between the smartphone and an entity, the entity being distinct from the first device (pars [0022-0026], and [0041] teach the handheld device to conduct the authorized transaction or set of transactions via, e.g., a short range wireless link with a point-of-sale (POS) terminal.;

establishing, using a second air interface, a wireless short-range communications link between the smartphone and the entity ((pars [0022-006], and [0041] teach the handheld device to conduct the authorized transaction or set of transactions via, for example, a short range wireless link with a point-of-sale (POS) terminal),

in response to the proximity condition having been satisfied between the smartphone and the entity (pars [0022-0026], and [0041] teach the handheld device to conduct the authorized transaction or set of transactions via, for example, a short range wireless link with a point-of-sale (POS) terminal);

receiving, using the second air interface, a short-range signal from the entity (pars [0026] [0043-0044], [0243] teach receiving the short range and long range interfaces); and

Dua does not explicitly teach responsive to receiving the short-range signal from the entity (par [0026] teach response to the short range communication from the authorization center reads on entity), sending over the second air interface, information to **at least one** unit for performing a transaction to pay for **one or more** items.

Creamer, in the same field of endeavor teaches responsive to receiving the short-range signal from the entity (par [0026] teach response to the short range communication), sending over the second air interface, information to **at least one** unit for performing a transaction to pay for **one or more** items (pars [0012-0013], and [0029] teach provides transaction authorization to pay for the merchant).

Therefore, it would have been obvious before the effective filing date of the claimed invention to one of ordinary skill in the art to provide the above teaching of Dua to Creamer, in order to provide using a wireless communications device and electronic wallets to initiate and perform financial transactions, in which allow consumers to more easily conduct commerce over computer networks for user's convenient (as suggested by Creamer in paragraphs [0002-0004-0002]).

Regarding **claim 10,** the combination of Dua and Creamer teach the smartphone of claim 9, Dua further teaches wherein establishing the wireless short-range communications link between the smartphone and the entity and sending over the second air interface information for performing a transaction is performed in response to

a physiological parameter (pars [0026] [0089], and [0495] teach the service parameters interaction based on the transaction reads on a physiological parameter).

Regarding **claim 11,** the combination of Dua and Creamer teach the smartphone of claim 9, Dua further teaches wherein sending over the second air interface information for performing a transaction is performed in response to a physiological parameter (pars [0026] [0089], and [0495] teach the service parameters interaction based on the transaction reads on a physiological parameter).

Regarding **claim 12,** the combination of Dua and Creamer teach the smartphone of claim 9, Dua further teaches wherein sending over the second air interface information for performing a transaction is performed in response to a value of **at least one** parameter that is associated with the smartphone (pars [0026] [0089], and [0495] teach the service parameters interaction based on the transaction reads on a physiological parameter), an environment thereof **and/or** a living organism associated therewith.

Regarding **claim 13,** the combination of Dua and Creamer teach the smartphone according to claim 9, Dua further teaches wherein receiving said authorization data is necessary in order to enable the smartphone to pay for a transaction (pars [0025-0026] teach conducting and receiving the authorization data to pay for a transaction).

Regarding to **claim 14**, the claim is interpreted and rejected for the same reason as set forth in claim 9.

Regarding **claim 15,** the combination of Dua and Creamer teach the smartphone of claim 14, Dua further teaches wherein said performing a first transaction of the plurality of financial transactions by sending to a first entity over a short-range link and over a short-range air interface (pars [0025-0026], and [0041] teach the short range and long range communications), information associated with the second data received from the first device (pars [0025-0026], and [0041] teach the data that associated between the mobile device and/or POS or the authorization center), is responsive to a proximity condition having been satisfied between the smartphone and the first entity and is further responsive to a value of **at least one** parameter that is associated with the smartphone (pars [0026] [0089], and [0495] teach the service parameters interaction based on the transactions), an environment thereof **and/or** a living organism associated therewith.

Regarding **claim 16,** the combination of Dua and Creamer teach the smartphone of claim 15, Dua further teaches wherein said value of **at least one** parameter that is associated with the smartphone (pars [0026] [0089], and [0495] teach the service parameters interaction based on the transactions), an environment thereof **and/or** a living organism associated therewith comprises a physiological parameter.

Regarding **claim 17,** the combination of Dua and Creamer teach the smartphone of claim 14, Dua further teaches wherein the operations further comprise: performing a second transaction of the plurality of financial transactions by sending to a second entity over a short-range link and over a short-range air interface (pars [0026] [0089], and [0495] teach the service parameters interaction based on the transaction by using the short range and long range interfaces), information associated with the second data received from the first device; wherein the second entity is distinct from the first device (pars [0025-0026] [0089], and [0495]).

Regarding **claim 18,** the combination of Dua and Creamer teach the smartphone of claim 14, Dua further teaches wherein said transmitting first data to a first device comprises transmitting data relating to a request to pay for a plurality of transactions and wherein said receiving second data comprises receiving data relating to an acknowledgement **and/or** authorization of enabling a mode/function to pay for the plurality of transactions (pars [0025-0026], and [0089] [0495 teach the service parameters interaction based on the transaction and/or the authorization).

Regarding **claim 19,** the combination of Dua and Creamer teach the smartphone of claim 14, Dua further teaches wherein said transmitting and said receiving that are performed over the air interface that differs from the short-range air interface comprise licensed frequencies; and wherein said short-range link comprises unlicensed frequencies (pars [0026] teach the short range communication, and par [0041] teach the distribution of credentials to a "wireless device". As used herein, wireless device is

preferably a device that is capable of wirelessly connecting to the Internet using network protocols such as GSM/GPRS, CDMA2000, W-CDMA, EDGE, HDR, 1xRTT, UMTS, IMT-2000, 802.11a, 802.11b, 802.11g, or BLUETOOTH or other relevant protocols and/or the long range communication reads on license and unlicensed frequencies).

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL T VU whose telephone number is (571)272-8131. The examiner can normally be reached on 8:00AM to 6:00PM.

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, Charles Appiah can be reached on (571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MICHAEL T VU/

Primary Examiner, Art Unit 2641

Notice of References Cited	Application/Control No. 16/251,834	Applicant(s)/Patent Under Reexamination Karabinis et al.	
	Examiner MICHAEL T VU	Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20060165060-A1	07-2006	Dua; Robin	G06Q20/20	370/352
*	B	US-20040143550-A1	07-2004	Creamer, Thomas E.	G06Q20/04	705/41
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	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 MM-YYYY format are publication dates. Classifications may be US or foreign.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/251,834	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	12/11/2019								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/251,834	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

CPC - Searched*		
Symbol	Date	Examiner
h04W 48/04	12/11/2019	MTV

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
Inventor Name: Peter Karabinis	12/11/2019	MTV
Assignee: Telcom Ventures	12/11/2019	MTV
Double Patent Rejected	12/11/2019	MTV
EAST Searched System	12/11/2019	MTV

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

IPR2025-01235
Apple EX1002 Page 182

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US5

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8965281	B2	2015-02-24	Raisanen et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M. T. V./

IPR2025-01235
Apple EX1002 Page 183

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US5

	1	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/012,513, 12/11/2018, pp. 1-10
	2	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/012,513, 04/12/2019, pp. 1-11
	3	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/012,513, 07/31/2018, pp. 1-8

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/MICHAEL T VU/	Date Considered	12/02/2019

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M. T. V./

IPR2025-01235
Apple EX1002 Page 184

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US5

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Aaron W. Pederson/	Date (YYYY-MM-DD)	2019-10-09
Name/Print	Aaron Pederson	Registration Number	58607

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M. T. V./

IPR2025-01235
Apple EX1002 Page 185

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 record s.

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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V/

IPR2025-01235
Apple EX1002 Page 186

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	29754	local near8 activat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/30 15:57
S2	5	local near8 activat$3 same (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/30 15:58
S4	2694	(local WLAN) same (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:10
S5	460	connect$4 near6 (local WLAN) same (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:11
S6	11	connect$4 near6 (local WLAN) same determin$4 with (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:11
S7	87	S5 AND ((H04W84/12 OR H04W12/08 OR H04W24/02 OR H04W24/08 OR H04W4/26 OR H04W28/0215 OR H04W28/0268 OR H04W28/0289 OR H04W28/12 OR H04W36/14 OR H04W4/001 OR H04W80/04 OR H04W84/042 OR H04W24/00 OR H04W28/021 OR H04W28/0221 OR H04W28/0247 OR H04W28/0257 OR H04W28/0284 OR H04W28/20 OR H04W48/04 OR H04W48/06 OR H04W48/16 OR H04W52/0212 OR H04W52/0264 OR H04W12/00 OR H04W28/02 OR H04W4/24 OR H04W88/06 OR H04W88/08 OR H04W40/02 OR H04W4/008 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:12

		H04W76/02 OR H04W88/12 OR H04W8/02 OR H04W12/02 OR H04W12/06 OR H04W24/04 OR H04W28/08 OR H04W28/10 OR H04W36/26 OR H04W40/12 OR H04W48/14 OR H04W48/20 OR H04W4/005 OR H04W4/006 OR H04W4/02 OR H04W4/023 OR H04W4/06 OR H04W4/12 OR H04W4/18 OR H04W4/20 OR H04W52/0203 OR H04W72/0453 OR H04W76/022 OR H04W80/06 OR H04W84/04 OR H04W84/20 OR H04W88/02 OR H04W88/04 OR H04W88/085 OR H04W88/10 OR H04W8/18 OR H04W8/20).CPC.)				
S8	67	(local WLAN) same indicat$4 same activat$3 and (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:43
S9	21	S8 AND ((H04W76/02 OR H04W88/04 OR H04W4/008 OR H04W88/10 OR H04W12/00 OR H04W88/06 OR H04W16/14 OR H04W28/08 OR H04W28/10 OR H04W40/12 OR H04W48/18 OR H04W4/001 OR H04W4/021 OR H04W4/24 OR H04W88/02 OR H04W88/16 OR H04W12/04 OR H04W12/06 OR H04W12/08 OR H04W28/06 OR H04W4/043 OR H04W52/0209 OR H04W74/00 OR H04W8/26).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:44
S10	9	S8 AND ((G06Q10/06 OR G06Q30/02 OR G06Q30/0233 OR G06Q30/0601 OR G06Q10/02 OR G06Q30/00 OR G06Q30/04 OR G06Q50/30).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:45
S11	8	S8 AND ((G06F1/3203 OR G06F11/1448 OR G06F11/1458 OR G06F11/2294 OR G06F2009/4557 OR G06F2009/45575 OR G06F9/4443 OR G06F9/45558 OR G06F9/4856).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:45
S12	2272	((SOUMYA NEAR2 DAS) OR (BONGYONG NEAR2 SONG) OR (SAMIR NEAR3 SOLIMAN)).IN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:46
S13	0	S8 AND S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/06/01 15:46

			IBM_TDB			
S14	85	((sari near2 nielsen) or (antti near2 toskala)).in.	USPAT	OR	OFF	2017/06/01 15:48
S15	0	S8 and S14	USPAT	OR	OFF	2017/06/01 15:48
S16	1360	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 12:49
S17	26	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network) same (detect$3 whether) with ((local adj area adj network) WLAN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 12:50
S18	9	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network) same (detect$3 whether) same (indicat$3) same ((local adj area adj network) WLAN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 12:50
S19	6	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network) and (unlicensed adj band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 13:08
S21	30	(UE mobile terminal) same (wide adj area adj network) same activat$3 same ((long adj term adj evolution adj network) LTE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 14:02
S22	100	(UE mobile terminal) same (local adj area adj network) same (indicat$3 with activat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 14:33
S23	115	((terminat$3 end$3) near9 (unlicens$3 adj2 band))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 19:53
S24	43	((terminat$3 end$3) near9 (unlicens$3 adj2 band)) same LTE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/05/16 19:54

			IBM_TDB			
S26	150	((terminat$3 end$3) near9 ((unlicens$3 adj2 band) LTE-U))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:16
S27	31	UE same ((terminat$3 end$3) near9 ((unlicens$3 adj2 band) LTE-U))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:17
S28	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:20
S29	24	((terminat$3) near9 (unlicens$3 adj2 band))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:31
S30	18	S29 AND ((H04W16/14 OR H04W72/0453 OR H04W28/08 OR H04W84/045 OR H04W84/12 OR H04W88/02 OR H04W88/06 OR H04W72/02 OR H04W72/042 OR H04W72/0446 OR H04W76/06 OR H04W76/30 OR H04W28/26 OR H04W72/0406 OR H04W72/14 OR H04W24/08 OR H04W24/10 OR H04W28/18 OR H04W48/16 OR H04W48/18 OR H04W52/04 OR H04W56/0005 OR H04W60/00 OR H04W64/00 OR H04W72/00 OR H04W72/04 OR H04W72/044 OR H04W72/0486 OR H04W72/1289 OR H04W74/006 OR H04W74/0833 OR H04W74/085 OR H04W76/27 OR H04W88/12 OR H04W8/02 OR H04W92/20).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:35
S31	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:36
S32	8	("20060246903" | "20070281704" | "20080002658" | "20080113624" | "20090054058" | "20110289175" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:36

		"6850489" | "8509788").PN.				
S33	9	S29 AND ((H04L1/00 OR H04L27/0006 OR H04L27/26 OR H04L5/0048 OR H04L5/001 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/0085 OR H04L5/0091 OR H04L5/14 OR H04L1/0003 OR H04L1/0009 OR H04L1/0061 OR H04L1/18 OR H04L1/1861 OR H04L5/0007 OR H04L5/0044 OR H04L5/0053 OR H04L5/0092).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:37
S34	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:37
S35	131	S26 AND ((H04W16/14 OR H04W74/0808 OR H04W72/0453 OR H04W72/1215 OR H04W84/12 OR H04W72/0446 OR H04W74/0816 OR H04W72/042 OR H04W88/06 OR H04W88/10 OR H04W24/08 OR H04W88/02 OR H04W88/08 OR H04W72/082 OR H04W84/045 OR H04W48/16 OR H04W74/006 OR H04W28/26 OR H04W72/00 OR H04W72/02 OR H04W72/044 OR H04W84/042 OR H04W8/005 OR H04W16/16 OR H04W24/02 OR H04W24/10 OR H04W48/12 OR H04W52/0206 OR H04W52/243 OR H04W56/001 OR H04W72/0406 OR H04W72/0413 OR H04W72/085 OR H04W72/14 OR H04W74/08 OR H04W76/28 OR H04W12/06 OR H04W16/32 OR H04W28/08 OR H04W28/18 OR H04W40/16 OR H04W4/24 OR H04W52/04 OR H04W52/241 OR H04W52/244 OR H04W56/00 OR H04W72/04 OR H04W72/0426 OR H04W72/048 OR H04W72/0486 OR H04W72/1252 OR H04W72/1268 OR H04W74/002 OR H04W74/04 OR H04W74/0833 OR H04W76/15 OR H04W76/27 OR H04W88/12 OR H04W92/20 OR H04W12/08 OR H04W24/00 OR H04W28/14 OR H04W28/16 OR H04W36/22 OR H04W36/385 OR H04W40/244 OR H04W48/00 OR H04W48/20 OR H04W4/02 OR H04W4/20 OR H04W52/143 OR H04W52/281 OR H04W52/367 OR H04W56/0005 OR H04W56/0015 OR H04W60/00 OR H04W64/00 OR H04W72/005 OR H04W72/10 OR H04W72/121 OR H04W72/1247 OR H04W72/1263 OR H04W72/1273 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:38

		H04W72/1289 OR H04W74/004 OR H04W74/008 OR H04W74/06 OR H04W74/0841 OR H04W74/085 OR H04W76/046 OR H04W76/048 OR H04W76/06 OR H04W76/30 OR H04W8/02 OR H04W8/22 OR H04W8/24 OR H04W92/10).CPC.)				
S36	5	("20120039284" | "20130201884" | "20130208587" | "20130315152" | "20150016239").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S37	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S38	13	("20040264475" | "20060194540" | "20070171909" | "20110044218" | "20120051342" | "20120069766" | "20130337821" | "20140044105" | "20150124740" | "20150223075" | "20150271226" | "20150334744" | "6526264").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S39	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S40	8	("20060223448" | "20080122581" | "20110021153" | "20110128895" | "20130163449" | "20160338019" | "20170127449" | "8155102").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S41	1	("20140044105").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S42	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S43	8	("20080108366" | "20110228742" | "20130143502" | "20140044105" | "20150189676" | "20150264699" | "20160294516" | "8792900").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S44	10	("20120120892" | "20130196653" | "20140029535" | "20140187287" | "20140213219" | "20140369329" | "20150009850" | "20150063323" | "8290503" | "8767576").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S45	44	("20090129332" | "20090285169" | "20100172254" | "20110128895" |	US-PGPUB; USPAT;	OR	OFF	2018/05/16 20:41

		"20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130003591" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130142059" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050146" | "20140050170" | "20140087748" | "20140126403" | "20140301351" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	USOCR			
S46	18	("20090197627" | "20100048234" | "20100208685" | "20100273515" | "20110228666" | "20110299479" | "20110300891" | "20120044898" | "20120052891" | "20120100883" | "20120176998" | "20120231834" | "20130034091" | "20130044662" | "20130343219" | "20140080501" | "20140086195" | "20150087352").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S47	4	("20050207381" | "20120076081" | "20130208587" | "20150215100").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S48	61	S26 AND ((H04L5/0048 OR H04L27/0006 OR H04L5/0053 OR H04L5/001 OR H04L5/0055 OR H04L5/0073 OR H04L5/14 OR H04L1/20 OR H04L5/0098 OR H04L1/00 OR H04L1/0003 OR H04L1/0009 OR H04L1/0015 OR H04L27/2601 OR H04L27/2613 OR H04L41/0803 OR H04L5/0007 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/0085 OR H04L5/0091 OR H04L12/1407 OR H04L1/0026 OR H04L1/0027 OR H04L1/0038 OR H04L1/0061 OR H04L1/0073 OR H04L1/18 OR H04L1/1861 OR H04L1/1887 OR H04L25/0238 OR H04L25/0242 OR H04L27/2605 OR H04L27/2611 OR H04L27/2626 OR H04L27/2656 OR H04L27/2666 OR H04L27/2675 OR H04L41/0893 OR H04L41/5019 OR H04L43/0894 OR H04L43/10 OR H04L43/16 OR H04L47/29 OR H04L47/52 OR H04L5/00 OR H04L5/0005 OR H04L5/0032 OR H04L5/0035 OR H04L5/005 OR H04L5/0051 OR H04L5/0058 OR H04L5/0092 OR H04L5/08 OR H04L65/102 OR H04L65/1073 OR H04L69/22 OR H04L7/00).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S49	74	("20020156897" | "20020167933" |	US-PGPUB;	OR	OFF	2018/05/16

		"20020197991" | "20030114158" | "20030119490" | "20030165124" | "20030176186" | "20040001461" | "20040067753" | "20040072581" | "20040090958" | "20040105416" | "20040142693" | "20040203788" | "20040229621" | "20050018637" | "20050090259" | "20050221828" | "20050271008" | "20060020694" | "20060058032" | "20060073826" | "20060095954" | "20060098598" | "20060111112" | "20060116127" | "20060148479" | "20060223498" | "20060268799" | "20070008885" | "20070026862" | "20070083470" | "20070091839" | "20070173251" | "20070268908" | "20080076420" | "20080091612" | "20080189550" | "20080254833" | "20080259886" | "20080311917" | "20090061863" | "20090092081" | "20090110168" | "20090129338" | "20090219826" | "20090220216" | "20090265542" | "20090287922" | "20100093307" | "20100161638" | "20100190492" | "20100214977" | "20100226347" | "20110055574" | "20110076998" | "20110093945" | "20130324115" | "5406615" | "5475677" | "5854982" | "6493437" | "6647426" | "6680923" | "6922559" | "6925074" | "7127250" | "7283822" | "7308263" | "7324818" | "7565145" | "7623486" | "8340711" | "8738084").PN.	USPAT; USOCR			20:42
S50	37	("20090129332" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050170" | "20140087748" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S51	22	("20030104849" | "20050089057" | "20060148482" | "20060187952" | "20090122736" | "20100124254" | "20100167742" | "20100177757" | "20100197317" | "20110228666" | "20120015607" | "20120077510" | "20120129522" | "20120207036" | "20130058218" | "20130136097" | "20130344883" | "20140342745" | "20150009871" | "20150156636" | "6295285" | "8478282").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42

S52	4	("20130203429" | "20140335876" | "20140341135" | "20150223075").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S53	4	("20050207381" | "20120076081" | "20130208587" | "20150215100").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S54	44	("20090129332" | "20090285169" | "20100172254" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130003591" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130142059" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050146" | "20140050170" | "20140087748" | "20140126403" | "20140301351" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S55	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S56	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S57	13	("20040264475" | "20060194540" | "20070171909" | "20110044218" | "20120051342" | "20120069766" | "20130337821" | "20140044105" | "20150124740" | "20150223075" | "20150271226" | "20150334744" | "6526264").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S58	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S59	13	S26 AND ((H04B17/318 OR	US-PGPUB;	OR	OFF	2018/05/16

		H04B17/336 OR H04B17/345 OR H04B10/272 OR H04B17/18 OR H04B1/40 OR H04B7/0413 OR H04B7/155 OR H04B7/15535 OR H04B7/2656).CPC.)	USPAT; USOCR			20:43
S60	1	("20140044105").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S61	2	("20120051748" | "20120166819").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S62	2	S26 AND ((H04Q11/0067 OR H04Q2011/0081 OR H04Q2011/0084 OR H04Q2011/0088).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44
S63	2	("20120051748" | "20120166819").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44
S64	3	S26 AND ((H04M15/00 OR H04M15/41 OR H04M15/55 OR H04M15/66).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44
S65	74	("20020156897" | "20020167933" | "20020197991" | "20030114158" | "20030119490" | "20030165124" | "20030176186" | "20040001461" | "20040067753" | "20040072581" | "20040090958" | "20040105416" | "20040142693" | "20040203788" | "20040229621" | "20050018637" | "20050090259" | "20050221828" | "20050271008" | "20060020694" | "20060058032" | "20060073826" | "20060095954" | "20060098598" | "20060111112" | "20060116127" | "20060148479" | "20060223498" | "20060268799" | "20070008885" | "20070026862" | "20070083470" | "20070091839" | "20070173251" | "20070268908" | "20080076420" | "20080091612" | "20080189550" | "20080254833" | "20080259886" | "20080311917" | "20090061863" | "20090092081" | "20090110168" | "20090129338" | "20090219826" | "20090220216" | "20090265542" | "20090287922" | "20100093307" | "20100161638" | "20100190492" | "20100214977" | "20100226347" | "20110055574" | "20110076998" | "20110093945" | "20130324115" | "5406615" | "5475677" | "5854982" | "6493437" | "6647426" | "6680923" | "6922559" | "6925074" | "7127250" | "7283822" | "7308263" | "7324818" | "7565145" | "7623486" | "8340711" | "8738084").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44
S66	131	S26 AND ((H04W16/14 OR H04W74/0808 OR H04W72/0453 OR H04W72/1215 OR H04W84/12 OR H04W72/0446 OR H04W74/0816 OR H04W72/042 OR H04W88/06 OR H04W88/10 OR H04W24/08 OR H04W88/02 OR H04W88/08 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:46

		H04W72/082 OR H04W84/045 OR H04W48/16 OR H04W74/006 OR H04W28/26 OR H04W72/00 OR H04W72/02 OR H04W72/044 OR H04W84/042 OR H04W8/005 OR H04W16/16 OR H04W24/02 OR H04W24/10 OR H04W48/12 OR H04W52/0206 OR H04W52/243 OR H04W56/001 OR H04W72/0406 OR H04W72/0413 OR H04W72/085 OR H04W72/14 OR H04W74/08 OR H04W76/28 OR H04W12/06 OR H04W16/32 OR H04W28/08 OR H04W28/18 OR H04W40/16 OR H04W4/24 OR H04W52/04 OR H04W52/241 OR H04W52/244 OR H04W56/00 OR H04W72/04 OR H04W72/0426 OR H04W72/048 OR H04W72/0486 OR H04W72/1252 OR H04W72/1268 OR H04W74/002 OR H04W74/04 OR H04W74/0833 OR H04W76/15 OR H04W76/27 OR H04W88/12 OR H04W92/20 OR H04W12/08 OR H04W24/00 OR H04W28/14 OR H04W28/16 OR H04W36/22 OR H04W36/385 OR H04W40/244 OR H04W48/00 OR H04W48/20 OR H04W4/02 OR H04W4/20 OR H04W52/143 OR H04W52/281 OR H04W52/367 OR H04W56/0005 OR H04W56/0015 OR H04W60/00 OR H04W64/00 OR H04W72/005 OR H04W72/10 OR H04W72/121 OR H04W72/1247 OR H04W72/1263 OR H04W72/1273 OR H04W72/1289 OR H04W74/004 OR H04W74/008 OR H04W74/06 OR H04W74/0841 OR H04W74/085 OR H04W76/046 OR H04W76/048 OR H04W76/06 OR H04W76/30 OR H04W8/02 OR H04W8/22 OR H04W8/24 OR H04W92/10).CPC.)			
S67	10	("20120120892" | "20130196653" | "20140029535" | "20140187287" | "20140213219" | "20140369329" | "20150009850" | "20150063323" | "8290503" | "8767576").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S68	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S69	8	("20060223448" | "20080122581" | "20110021153" | "20110128895" | "20130163449" | "20160338019" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47

		"20170127449" | "8155102").PN.				
S70	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S71	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S72	61	S26 AND ((H04L5/0048 OR H04L27/0006 OR H04L5/0053 OR H04L5/001 OR H04L5/0055 OR H04L5/0073 OR H04L5/14 OR H04L1/20 OR H04L5/0098 OR H04L1/00 OR H04L1/0003 OR H04L1/0009 OR H04L1/0015 OR H04L27/2601 OR H04L27/2613 OR H04L41/0803 OR H04L5/0007 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/0085 OR H04L5/0091 OR H04L12/1407 OR H04L1/0026 OR H04L1/0027 OR H04L1/0038 OR H04L1/0061 OR H04L1/0073 OR H04L1/18 OR H04L1/1861 OR H04L1/1887 OR H04L25/0238 OR H04L25/0242 OR H04L27/2605 OR H04L27/2611 OR H04L27/2626 OR H04L27/2656 OR H04L27/2666 OR H04L27/2675 OR H04L41/0893 OR H04L41/5019 OR H04L43/0894 OR H04L43/10 OR H04L43/16 OR H04L47/29 OR H04L47/52 OR H04L5/00 OR H04L5/0005 OR H04L5/0032 OR H04L5/0035 OR H04L5/005 OR H04L5/0051 OR H04L5/0058 OR H04L5/0092 OR H04L5/08 OR H04L65/102 OR H04L65/1073 OR H04L69/22 OR H04L7/00).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:49
S73	74	("20020156897" | "20020167933" | "20020197991" | "20030114158" | "20030119490" | "20030165124" | "20030176186" | "20040001461" | "20040067753" | "20040072581" | "20040090958" | "20040105416" | "20040142693" | "20040203788" | "20040229621" | "20050018637" | "20050090259" | "20050221828" | "20050271008" | "20060020694" | "20060058032" | "20060073826" | "20060095954" | "20060098598" | "20060111112" | "20060116127" | "20060148479" | "20060223498" | "20060268799" | "20070008885" | "20070026862" | "20070083470" | "20070091839" | "20070173251" | "20070268908" | "20080076420" | "20080091612" | "20080189550" | "20080254833" | "20080259886" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50

		"20080311917" | "20090061863" | "20090092081" | "20090110168" | "20090129338" | "20090219826" | "20090220216" | "20090265542" | "20090287922" | "20100093307" | "20100161638" | "20100190492" | "20100214977" | "20100226347" | "20110055574" | "20110076998" | "20110093945" | "20130324115" | "5406615" | "5475677" | "5854982" | "6493437" | "6647426" | "6680923" | "6922559" | "6925074" | "7127250" | "7283822" | "7308263" | "7324818" | "7565145" | "7623486" | "8340711" | "8738084").PN.				
S74	37	("20090129332" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050170" | "20140087748" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S75	44	("20090129332" | "20090285169" | "20100172254" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130003591" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130142059" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050146" | "20140050170" | "20140087748" | "20140126403" | "20140301351" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S76	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50

		"20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.				
S77	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S78	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S79	18	S29 AND ((H04W16/14 OR H04W72/0453 OR H04W28/08 OR H04W84/045 OR H04W84/12 OR H04W88/02 OR H04W88/06 OR H04W72/02 OR H04W72/042 OR H04W72/0446 OR H04W76/06 OR H04W76/30 OR H04W28/26 OR H04W72/0406 OR H04W72/14 OR H04W24/08 OR H04W24/10 OR H04W28/18 OR H04W48/16 OR H04W48/18 OR H04W52/04 OR H04W56/0005 OR H04W60/00 OR H04W64/00 OR H04W72/00 OR H04W72/04 OR H04W72/044 OR H04W72/0486 OR H04W72/1289 OR H04W74/006 OR H04W74/0833 OR H04W74/085 OR H04W76/27 OR H04W88/12 OR H04W8/02 OR H04W92/20).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:51
S80	8	("20060246903" | "20070281704" | "20080002658" | "20080113624" | "20090054058" | "20110289175" | "6850489" | "8509788").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:51
S81	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:51
S82	891	(terminat$3 stop$4 end$3) near9 (unlicens$3 un-licens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:29
S83	28	(respons$3 respond$3) near9 (terminat$3 stop$4 end$3) near9 (unlicens$3 un-licens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/05/17 11:33

			DERWENT; IBM_TDB			
S84	27	S83 AND ((H04W16/14 OR H04W72/0453 OR H04W72/1215 OR H04W72/042 OR H04W74/0808 OR H04W88/12 OR H04W36/14 OR H04W72/1226 OR H04W74/0816 OR H04W76/28 OR H04W84/12 OR H04W88/06 OR H04W28/20 OR H04W36/0038 OR H04W4/24 OR H04W4/80 OR H04W52/0216 OR H04W72/085 OR H04W72/1278 OR H04W74/002 OR H04W76/048 OR H04W76/20 OR H04W76/34 OR H04W84/105 OR H04W8/04 OR H04W8/18 OR H04W8/20 OR H04W8/26 OR H04W28/10 OR H04W52/0229 OR H04W72/0413 OR H04W72/082 OR H04W72/1289 OR H04W72/14 OR H04W76/025 OR H04W76/068 OR H04W76/15 OR H04W76/38 OR H04W88/02 OR H04W88/10 OR H04W92/02).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:34
S85	7	("20060009202" | "20070099653" | "20130003533" | "20150023315" | "20160338096" | "20170279565" | "20170311337").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:35
S86	24	("20080279155" | "20120063373" | "20120082100" | "20120129522" | "20120320874" | "20140003356" | "20140287769" | "20140301351" | "20140342745" | "20140378157" | "20160036617" | "20160095009" | "20160174214" | "20160205562" | "20160219623" | "20160233989" | "20160337867" | "20170079054" | "20170094681" | "20170280341" | "20170339717" | "8670780" | "8855069" | "8934909").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:35
S87	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S88	25	("20060223448" | "20070026868" | "20120077510" | "20130156019" | "20130203458" | "20130294356" | "20130337821" | "20140036818" | "20140036889" | "20140112289" | "20140342745" | "20150085683" | "20150131516" | "20150163681" | "20150181453" | "20150201429" | "20150223244" | "20150237548" | "20150382374" | "20160007368" | "20160135055" | "20160255648" | "20160295588" | "9326157" | "9392614").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S89	1	("20150223075").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S90	9	("20050025265" | "20100246506" | "20120077510" | "20120129522" | "20130143502" | "20140031054" | "20140112289" | "5850596" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36

		"7512094").PN.				
S91	2	("20130203458" | "20150223244").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S92	9	("20040203815" | "20070015536" | "20090196253" | "20090196268" | "20100278141" | "20110003575" | "20110117889" | "20110299511" | "8229440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S93	100	("20010036158" | "20020072364" | "20020085516" | "20020106029" | "20030032440" | "20030058822" | "20030112796" | "20030119489" | "20030123485" | "20030133423" | "20040008652" | "20040047364" | "20040073424" | "20040090989" | "20040131025" | "20040131051" | "20040192295" | "20040203791" | "20040254786" | "20040264482" | "20050105512" | "20050180456" | "20050195829" | "20050232232" | "20050265279" | "20050267746" | "20050286466" | "20060009202" | "20060050664" | "20060062225" | "20060083199" | "20060092927" | "20060099935" | "20060111112" | "20060142011" | "20060198347" | "20060209799" | "20060229068" | "20060245395" | "20060270411" | "20060276192" | "20060286981" | "20060291454" | "20060291483" | "20070011727" | "20070041360" | "20070043558" | "20070123196" | "20070135165" | "20070140214" | "20070171841" | "20070286082" | "20080039087" | "20080102794" | "20080123596" | "20080151845" | "20080198841" | "5375121" | "5513185" | "5867785" | "5905873" | "5999529" | "6011579" | "6046999" | "6147988" | "6167129" | "6215996" | "6339594" | "6424637" | "6625169" | "6647428" | "6731627" | "6731647" | "6791959" | "6850883" | "6967958" | "6983163" | "6990340" | "7006489" | "7054318" | "7054320" | "7068623" | "7072358" | "7082143" | "7089011" | "7095733" | "7103021" | "7106701" | "7162024" | "7180892" | "7203226" | "7305229" | "7349698" | "7369859" | "7398088" | "7400881" | "7433690" | "7471655" | "7830864" | "7835346").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S94	13	S83 AND ((H04L1/1812 OR H04L1/0026 OR H04L1/0027 OR H04L1/0073 OR H04L1/1822 OR H04L1/20 OR H04L29/06027 OR H04L65/1043 OR H04L1/1887 OR H04L47/14 OR H04L47/2441 OR H04L47/2491 OR H04L5/001).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S95	7	("20060009202" | "20070099653" | "20130003533" | "20150023315" |	US-PGPUB; USPAT;	OR	OFF	2018/05/17 11:37

		"20160338096" | "20170279565" | "20170311337").PN.	USOCR			
S96	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S97	25	("20060223448" | "20070026868" | "20120077510" | "20130156019" | "20130203458" | "20130294356" | "20130337821" | "20140036818" | "20140036889" | "20140112289" | "20140342745" | "20150085683" | "20150131516" | "20150163681" | "20150181453" | "20150201429" | "20150223244" | "20150237548" | "20150382374" | "20160007368" | "20160135055" | "20160255648" | "20160295588" | "9326157" | "9392614").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S98	2	("20130203458" | "20150223244").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:38
S99	100	("20010036158" | "20020072364" | "20020085516" | "20020106029" | "20030032440" | "20030058822" | "20030112796" | "20030119489" | "20030123485" | "20030133423" | "20040008652" | "20040047364" | "20040073424" | "20040090989" | "20040131025" | "20040131051" | "20040192295" | "20040203791" | "20040254786" | "20040264482" | "20050105512" | "20050180456" | "20050195829" | "20050232232" | "20050265279" | "20050267746" | "20050286466" | "20060009202" | "20060050664" | "20060062225" | "20060083199" | "20060092927" | "20060099935" | "20060111112" | "20060142011" | "20060198347" | "20060209799" | "20060229068" | "20060245395" | "20060270411" | "20060276192" | "20060286981" | "20060291454" | "20060291483" | "20070011727" | "20070041360" | "20070043558" | "20070123196" | "20070135165" | "20070140214" | "20070171841" | "20070286082" | "20080039087" | "20080102794" | "20080123596" | "20080151845" | "20080198841" | "5375121" | "5513185" | "5867785" | "5905873" | "5999529" | "6011579" | "6046999" | "6147988" | "6167129" | "6215996" | "6339594" | "6424637" | "6625169" | "6647428" | "6731627" | "6731647" | "6791959" | "6850883" | "6967958" | "6983163" | "6990340" | "7006489" | "7054318" | "7054320" | "7068623" | "7072358" | "7082143" | "7089011" | "7095733" | "7103021" | "7106701" | "7162024" | "7180892" | "7203226" | "7305229" | "7349698" | "7369859" | "7398088" | "7400881" | "7433690" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:38

		"7471655" | "7830864" | "7835346").PN.				
S100	1282274	455/$.ccls. 705/$.ccls. 379/$.ccls. 370/$.ccls. 709/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:42
S101	1	S83 AND ((G06F21/10 OR G06F21/105).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:43
S102	1	S83 AND ((G06Q10/10 OR G06Q30/06).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:43
S103	353	S82 and S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:44
S104	350	(determin$3 detect$3) same (terminat$3 stop$4 end$3) near9 (unlicens$3 un-licens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:45
S105	130	S100 and S104	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:46
S106	103	S105 AND ((H04W16/14 OR H04W84/12 OR H04W72/0453 OR H04W48/16 OR H04W52/367 OR H04W72/042 OR H04W52/146 OR H04W74/002 OR H04W74/0808 OR H04W4/02 OR H04W56/001 OR H04W72/02 OR H04W72/04 OR H04W74/0816 OR H04W24/02 OR H04W28/08 OR H04W48/14 OR H04W52/243 OR H04W72/0406 OR H04W72/0426 OR H04W72/048 OR H04W72/082 OR H04W8/005 OR H04W16/16 OR H04W24/08 OR H04W24/10 OR H04W36/14 OR H04W48/12 OR H04W52/283 OR H04W52/30 OR H04W52/346 OR H04W52/36 OR H04W52/38 OR H04W52/52 OR H04W72/00 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:46

		H04W84/045 OR H04W88/02 OR H04W24/00 OR H04W28/04 OR H04W36/22 OR H04W48/20 OR H04W52/04 OR H04W72/044 OR H04W72/0446 OR H04W72/0486 OR H04W72/1215 OR H04W72/1226 OR H04W72/1247 OR H04W72/1278 OR H04W74/00 OR H04W74/006 OR H04W74/04 OR H04W76/14 OR H04W84/042 OR H04W84/18 OR H04W88/06 OR H04W88/10 OR H04W8/26 OR H04W16/26 OR H04W28/0247 OR H04W28/0278 OR H04W28/06 OR H04W28/20 OR H04W28/26 OR H04W36/0072 OR H04W36/30 OR H04W40/22 OR H04W48/08 OR H04W48/10 OR H04W4/24 OR H04W52/0206 OR H04W52/0225 OR H04W52/0251 OR H04W52/281 OR H04W60/00 OR H04W64/00 OR H04W68/005 OR H04W72/005 OR H04W72/0413 OR H04W72/08 OR H04W72/085 OR H04W72/1263 OR H04W72/1284 OR H04W72/14 OR H04W74/08 OR H04W74/0833 OR H04W74/085 OR H04W76/023 OR H04W76/026 OR H04W76/12 OR H04W76/15 OR H04W76/16 OR H04W76/20 OR H04W76/27 OR H04W76/36 OR H04W80/00 OR H04W88/04 OR H04W88/08 OR H04W8/02 OR H04W8/04 OR H04W8/20).CPC.)				
S107	54	("20020138756" | "20020199203" | "20030074580" | "20030105978" | "20030135611" | "20040005886" | "20040088565" | "20040107360" | "20040123162" | "20040193907" | "20040221174" | "20050015622" | "20050033596" | "20050044418" | "20050060537" | "20050132225" | "20050138408" | "20050144475" | "20050154885" | "20050166065" | "20050172142" | "20050188065" | "5666411" | "5673322" | "5721779" | "5732074" | "5901284" | "5987611" | "6012100" | "6061650" | "6081508" | "6151628" | "6185609" | "6253327" | "6377982" | "6453035" | "6493349" | "6507908" | "6539482" | "6643782" | "6654891" | "6694437" | "6732270" | "6748543" | "6751729" | "6760444" | "6766453" | "6778498" | "6785823" | "6850943" | "6874139" | "7111324" | "7240015" | "7340770").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47
S108	29	("20040192288" | "20080049776" | "4939726" | "5129096" | "5295154" | "5400338" | "5455569" | "5479400" | "5563881" | "5610839" | "5740366" | "5974236" | "5987011" | "6044062" | "6046992" | "6249516" | "6298053" | "6349091" | "6349210" | "6385174" | "6437692" | "6704301" | "6728514" | "6804532" | "6829347" | "6850502" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47

		"6885660" | "6965575" | "6973039").PN.				
S109	31	("20070079012" | "20070183439" | "20070211866" | "20090116509" | "4939726" | "5129096" | "5295154" | "5400338" | "5455569" | "5479400" | "5563881" | "5610839" | "5740366" | "5974236" | "5987011" | "6044062" | "6046992" | "6249516" | "6298053" | "6349091" | "6349210" | "6385174" | "6437692" | "6704301" | "6728514" | "6804532" | "6829347" | "6850502" | "6885660" | "6965575" | "6973039").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47
S110	60	("20030093526" | "20050003827" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195667" | "20100220687" | "20100229205" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110043710" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47
S111	60	("20030093526" | "20050003827" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195667" | "20100220687" | "20100229205" | "20100246434" | "20100246506" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48

		"20100303026" | "20100309317" | "20100309806" | "20110043710" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.				
S112	11	("20020168993" | "20040127240" | "20040137905" | "20040180652" | "20050059422" | "20060018284" | "20070049239" | "20110306375" | "20120093092" | "8130708" | "8203987").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S113	6	("20060073827" | "20080205358" | "20090061783" | "20110110349" | "20110116458" | "20110280228").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S114	71	("20020154653" | "20030050012" | "20030093526" | "20050003827" | "20050070279" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080130519" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195667" | "20100220687" | "20100229205" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110019649" | "20110043710" | "20110045781" | "20110090887" | "20110090890" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120063364" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "20130114586" | "20130142132" | "6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S115	74	("20020154653" | "20030050012" | "20030093526" | "20050003827" | "20050070279" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080130519" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48

		"20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090253392" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195595" | "20100195667" | "20100220687" | "20100229205" | "20100240407" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110019649" | "20110043710" | "20110045781" | "20110090887" | "20110090890" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120063364" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "20130114586" | "20130142132" | "6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.				
S116	10	("20020006788" | "20030207683" | "20090258603" | "20100128565" | "20110087639" | "20110116458" | "20110310253" | "20120008604" | "20120134328" | "20120282959").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S117	3	("20080130564" | "20080261563" | "20110216743").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S118	10	("20040203815" | "20060223524" | "20090125650" | "20100098011" | "20100191878" | "20100226430" | "20110028102" | "20110141983" | "7054790" | "7512094").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S119	10	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:49
S120	11	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:49
S121	5	("20020082997" | "5790664" | "6343280" | "6697948" | "6810389").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:49
S122	9	S105 AND ((G06Q50/184 OR G06Q30/0222 OR G06Q30/0633 OR G06Q30/02 OR G06Q2220/18).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:50
S123	54	S105 AND ((H04L27/0006 OR H04L5/001 OR H04L5/0048 OR H04L65/60 OR H04L67/1002 OR	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:51

		H04L67/1025 OR H04L67/1038 OR H04L67/104 OR H04L67/1063 OR H04L67/1091 OR H04L67/322 OR H04L67/42 OR H04L51/32 OR H04L5/0085 OR H04L47/10 OR H04L47/14 OR H04L47/2408 OR H04L47/2416 OR H04L47/2441 OR H04L47/2458 OR H04L47/28 OR H04L47/29 OR H04L47/31 OR H04L47/50 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/14 OR H04L67/18 OR H04L67/306 OR H04L12/2898 OR H04L1/0026 OR H04L1/0027 OR H04L1/0073 OR H04L1/1812 OR H04L1/1822 OR H04L1/1835 OR H04L1/1887 OR H04L1/1896 OR H04L1/20 OR H04L27/261 OR H04L43/08 OR H04L47/30 OR H04L5/0007 OR H04L5/003 OR H04L5/0041 OR H04L5/005 OR H04L5/0051 OR H04L5/0053 OR H04L5/0055 OR H04L5/0058 OR H04L5/0062 OR H04L5/0069 OR H04L5/0091 OR H04L5/0094 OR H04L63/0272 OR H04L63/0414 OR H04L63/0428 OR H04L63/083 OR H04L63/102 OR H04L63/164 OR H04L69/16 OR H04L69/168 OR H04L9/3226 OR H04L9/3271).CPC.)				
S124	10	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:52
S125	5	("20020082997" | "5790664" | "6343280" | "6697948" | "6810389").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:52
S127	1	((terminat$3) near9 (unlicens$3 adj2 band)) and (positive adj2 (result report$3)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:55
S128	11	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:02
S129	5	("20020082997" | "5790664" | "6343280" | "6697948" | "6810389").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:02
S130	1	((terminat$3 end$3 stop$4) near10 (unlicens$3 adj2 band)) and (positive adj2 (result report$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/05/17 12:10

			IBM_TDB			
S131	361	(UE mobile terminal) same (disconnect$4 terminat$3 end$3 stop$4) near10 (un-licens$3 unlicens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:46
S132	123	(UE mobile terminal) same (determin$4 detect$3) same (disconnect$4 terminat$3 end$3 stop$4) near10 (un-licens$3 unlicens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:47
S133	36	S100 and S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:48
S134	35	S133 AND ((H04W16/14 OR H04W72/0453 OR H04W88/06 OR H04W74/0808 OR H04W84/12 OR H04W56/001 OR H04W84/045 OR H04W84/105 OR H04W4/02 OR H04W88/02 OR H04W24/00 OR H04W24/08 OR H04W28/04 OR H04W28/08 OR H04W36/14 OR H04W48/16 OR H04W4/24 OR H04W72/0446 OR H04W72/0486 OR H04W72/082 OR H04W72/1215 OR H04W72/1226 OR H04W72/1263 OR H04W74/002 OR H04W74/006 OR H04W74/04 OR H04W74/0816 OR H04W76/12 OR H04W76/20 OR H04W84/042 OR H04W8/04 OR H04W8/26 OR H04W24/10 OR H04W28/0247 OR H04W28/06 OR H04W28/20 OR H04W28/26 OR H04W36/22 OR H04W48/10 OR H04W48/12 OR H04W4/04 OR H04W52/0206 OR H04W52/0225 OR H04W52/0251 OR H04W52/04 OR H04W60/00 OR H04W60/04 OR H04W64/00 OR H04W68/005 OR H04W72/00 OR H04W72/005 OR H04W72/02 OR H04W72/04 OR H04W72/0406 OR H04W72/0413 OR H04W72/042 OR H04W72/14 OR H04W74/08 OR H04W74/0833 OR H04W74/085 OR H04W76/023 OR H04W76/026 OR H04W76/14 OR H04W76/16 OR H04W76/27 OR H04W76/30 OR H04W84/16 OR H04W88/08 OR H04W88/10 OR H04W88/12 OR H04W88/16 OR H04W8/02 OR H04W92/02 OR H04W92/06).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:48
S135	3	("20080130564" | "20080261563" | "20110216743").PN.	US-PGPUB; USPAT;	OR	OFF	2018/05/17 12:48

			USOCR			
S136	9	("20040203815" | "20070015536" | "20090196253" | "20090196268" | "20100278141" | "20110003575" | "20110117889" | "20110299511" | "8229440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:49
S137	4	("20040071090" | "20080076386" | "20080115009" | "20080293407").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:49
S138	18	S133 AND ((H04L5/001 OR H04L27/0006 OR H04L5/0048 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/14 OR H04L63/164 OR H04L67/18 OR H04L67/306 OR H04L1/1812 OR H04L1/1822 OR H04L1/1835 OR H04L1/1887 OR H04L1/1896 OR H04L27/261 OR H04L47/30 OR H04L5/0007 OR H04L5/0041 OR H04L5/0051 OR H04L5/0053 OR H04L5/0055 OR H04L5/0062 OR H04L5/0069 OR H04L5/0085 OR H04L5/0091 OR H04L5/0094 OR H04L63/0272 OR H04L63/0428).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:49
S139	3	("20080130564" | "20080261563" | "20110216743").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:50
S140	3	S133 AND ((H04B7/2656 OR H04B1/7087).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:50
S141	2	S133 AND ((G06Q30/02).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:50
S142	415	sensor same price with item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 16:00
S143	30	sensor same price with item near9 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 16:00
S144	730	authorization same different near8 protocol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:06
S145	130	authorization same different near8 protocol same (mobile phone cellular pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/08/06 14:06

			DERWENT; IBM_TDB			
S146	42	authorization same different near8 protocol same (mobile phone cellular pda iphone ipad) and (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:07
S147	468	enabling near6 mode same (mobile phone cellular pda iphone ipad) and (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:24
S148	33	enabling near6 mode same (mobile phone cellular pda iphone ipad) same (short adj3 range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:26
S149	2	"09832708"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:38
S150	1	"09462411"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:42
S151	1	15/800885	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:29
S152	1	15/800885 and involv$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:29
S153	1	15/800885 and (first adj2 interfac$3) and (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:31
S154	1	15/800885 andentity and (first adj2 interfac$3) and (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/08/06 15:45

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S156	1	15/800885 and entity and (first adj2 interfac$3) and (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:46
S157	3472	(first adj2 interfac$3) same (second adj3 interfac$3) same independent$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:48
S158	10	(first adj2 interfac$3) same (second adj3 interfac$3) same independent$3 near8 entity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:50
S159	15	(first adj2 interfac$3) same (second adj3 interfac$3) same (short adj2 range) same (access adj point)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:19
S161	153	(first adj2 interfac$3) same (second adj3 interfac$3) and (short adj2 range) same (person animal (shopping adj card))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:26
S162	102813	(first adj2 interfac$3) same (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:28
S163	386	(first adj2 interfac$3) same (second adj3 interfac$3) and (first adj time adj interval) and (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:29
S164	368	(first adj2 interfac$3) same (second adj3 interfac$3) and (first adj time adj interval) same (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:32
S165	61	(first adj2 interfac$3) same (second	US-PGPUB;	OR	OFF	2018/08/06

		adj3 interfac$3) same (first adj time adj interval) same (second adj time adj interval)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			16:35
S166	30	(first adj air adj interfac$3) same (second adj air adj interfac$3) and (first adj time adj interval) same (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:42
S167	0	absent near4 involv$3 near8 ((base adj station) (access adj point))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:22
S168	0	absent near4 involv$3 same ((base adj station) (access adj point))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:23
S169	170	(absent stop$4) near4 involv$3 same ((base adj station) (access adj point))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:23
S170	11	2007/0129077	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:33
S171	1	11/584455	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:33
S172	19	(first adj2 interfac$3) same (second adj3 interfac$3) same (short adj2 range) same (person animal vehicle (shopping adj card))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/07 17:34
S173	10	S172 AND ((H04W84/12 OR H04W88/04 OR H04W48/18 OR H04W28/0231 OR H04W52/0229 OR H04W52/0274 OR H04W84/042 OR H04W88/06 OR H04W88/16 OR H04W92/02 OR H04W4/008 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/08/07 17:34

		H04W4/02 OR H04W4/21 OR H04W4/80 OR H04W76/025 OR H04W76/10 OR H04W76/15 OR H04W84/10).CPC.)	IBM_TDB			
S174	48	("20030220105" | "20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20060194538" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070243872" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8023580" | "8463238" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT	OR	OFF	2018/08/08 12:53
S175	1320305	455/$.ccls. 370/$.ccls. 379/$.ccls. 709/$.ccls. 705/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:20
S176	296	(physiological adj2 parameter) same (proximit$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:22
S177	11	S176 AND ((H04W4/90 OR H04W4/80 OR H04W4/02 OR H04W76/14).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:22
S178	236	("20020001367" | "20020027975" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050104745" | "20050151642" | "20060293024" | "20070030146" | "20070033095" | "20070049287" | "20070053308" | "20070058528" | "20070060097" | "20070161383" | "20070164872" | "20070218895" | "20080019268" | "20080063153" | "20080081646" | "20080166990" | "20080194238" | "20080294058" | "20090186596" | "20090257345" | "20090322513" | "20100002846" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23

"20100156626" | "20100159976" |
"20100166153" | "20100202368" |
"20100238018" | "20100262668" |
"20110009086" | "20110071880" |
"20110086607" | "20110103266" |
"20110134897" | "20110153368" |
"20110201357" | "20110263219" |
"20120002792" | "20120028599" |
"20120029970" | "20120092161" |
"20120144019" | "20120202428" |
"20120210325" | "20120218102" |
"20120257729" | "20120289243" |
"20120295575" | "20120309341" |
"20130005295" | "20130030825" |
"20130084824" | "20130122932" |
"20130138791" | "20130183924" |
"20130185368" | "20130203373" |
"20130203376" | "20130226369" |
"20130237175" | "20130237181" |
"20130331055" | "20140051379" |
"20140086108" | "20140087680" |
"20140113606" | "20140126356" |
"20140148120" | "20140155018" |
"20140199959" | "20140248848" |
"20140324351" | "20150029836" |
"20150055453" | "20150081209" |
"20150109125" | "20150111524" |
"20150137972" | "20150172897" |
"20150181401" | "20150289121" |
"20150304827" | "20150317392" |
"20150350262" | "20150358794" |
"20150365319").PN. OR
("20160004224" | "20160026768" |
"20160050550" | "20160088455" |
"20160219084" | "20160219397" |
"20160269535" | "20160307436" |
"20160315923" | "20160337831" |
"20160345171" | "20160363931" |
"20170004427" | "20170140637" |
"20170142568" | "20170150335" |
"20170161614" | "20170164175" |
"20170171735" | "20170180486" |
"20170180963" | "20170180966" |
"20170195475" | "20170213251" |
"20170238129" | "20170238136" |
"20170245113" | "20180020091" |
"20180039737" | "20180077282" |
"20180242133" | "20180249315" |
"5013271" | "5022878" | "5379337" |
"5479482" | "5563931" | "5596625" |
"5710803" | "5742666" | "6014555" |
"6249674" | "6252943" | "6477362" |
"6502030" | "6510315" | "6556816" |
"6571092" | "6594666" | "6600812" |
"6628933" | "7058385" | "7224773" |
"7324801" | "7349706" | "7409044" |
"7436938" | "7437143" | "7469138" |
"7483519" | "7519351" | "7519372" |
"7548158" | "7565131" | "7646854" |
"7676215" | "7684782" | "7848733" |
"7949326" | "8009810" | "8041335" |
"8041341" | "8045954" | "8068881" |
"8102972" | "8126424" | "8150367" |
"8165560" | "8165562" | "8185087" |

		"8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8484352" | "8489062" | "8509729" | "8516122" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8751265" | "8760290" | "8811935" | "8825687" | "8848877").PN. OR ("8866606" | "8868028" | "8880021" | "8890685" | "8948732" | "8971839" | "8984143" | "9008078" | "9019870" | "9071643" | "9077676" | "9078092" | "9094816" | "9167379" | "9244922" | "9258680" | "9277389" | "9351142" | "9369847" | "9402159" | "9503876" | "9544750" | "9591467" | "9635534" | "9659484" | "9693213" | "9736670" | "9756169" | "9805430").PN.				
S179	145	("20020001367" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20060293024" | "20070033095" | "20070053308" | "20070058528" | "20070161383" | "20080019268" | "20080081646" | "20080294058" | "20090257345" | "20090322513" | "20100002846" | "20100159976" | "20100238018" | "20110086607" | "20110134897" | "20110153368" | "20110263219" | "20120002792" | "20120029970" | "20120202428" | "20120210325" | "20120218102" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130138791" | "20130183924" | "20130203373" | "20130203376" | "20130226369" | "20140051379" | "20140113606" | "20140126356" | "20140148120" | "20140155018" | "20140199959" | "20140248848" | "20150055453" | "20150109125" | "20150111524" | "20150137972" | "20150172897" | "20150289121" | "20150350262" | "20150358794" | "20150365319" | "20160026768" | "20160050550" | "20160088455" | "20160219084" | "20160269535" | "20160307436" | "20160363931" | "20170004427" | "20170150335" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23

		"7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560").PN. OR ("8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "8890685" | "9008078" | "9019870" | "9094816" | "9258680" | "9351142" | "9369847" | "9402159" | "9544750" | "9635534" | "9693213").PN.				
S180	112	("20020120698" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20070033095" | "20070053308" | "20080081646" | "20080294058" | "20090322513" | "20100002846" | "20100159976" | "20110086607" | "20110134897" | "20110153368" | "20120002792" | "20120029970" | "20120202428" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130203373" | "20130226369" | "20140051379" | "20140113606" | "20140148120" | "20140199959" | "20150137972" | "20150172897" | "20150350262" | "20150358794" | "20160026768" | "20160050550" | "20160088455" | "20160269535" | "20160307436" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560" | "8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "9008078" | "9019870" | "9258680" | "9369847" | "9544750").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23
S181	15	("20010049544" | "20020013518" | "20030146847" | "20040088027" |	US-PGPUB; USPAT;	OR	OFF	2018/12/27 15:23

		"20050102167" | "20050115561" | "5912656" | "6198394" | "6269339" | "6551243" | "6589172" | "6697103" | "6733495" | "6735630" | "6954148").PN.	USOCR			
S182	15	S175 and S176	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23
S183	11	S182 AND ((G06F19/00 OR G06F19/3418 OR G06F19/3475 OR G06F19/30).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:24
S184	31	("20020013518" | "20030009154" | "20030181815" | "20030216625" | "20040059205" | "20040073093" | "20050094705" | "3943918" | "4321933" | "4747413" | "4958645" | "5153584" | "5365217" | "5458123" | "5748103" | "6072396" | "6102856" | "6238337" | "6416471" | "6529164" | "6579231" | "6589170" | "6856832" | "6870484" | "6894975" | "6897788" | "6970097" | "6982639" | "7109859" | "7218938" | "7993266").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:24
S185	15	("20010049544" | "20020013518" | "20030146847" | "20040088027" | "20050102167" | "20050115561" | "5912656" | "6198394" | "6269339" | "6551243" | "6589172" | "6697103" | "6733495" | "6735630" | "6954148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:28
S186	8	S182 AND ((G06Q50/22 OR G06Q50/24 OR G06Q10/06311 OR G06Q10/1097 OR G06Q30/02 OR G06Q30/0269).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:28
S187	15	("20010049544" | "20020013518" | "20030146847" | "20040088027" | "20050102167" | "20050115561" | "5912656" | "6198394" | "6269339" | "6551243" | "6589172" | "6697103" | "6733495" | "6735630" | "6954148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:29
S188	4	S182 AND ((H04L67/12 OR H04L29/12783 OR H04L51/046 OR H04L61/35 OR H04L67/14 OR H04L67/30).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:29
S189	3	S182 AND ((H04W4/02 OR H04W36/14 OR H04W48/16 OR H04W76/10 OR H04W84/10 OR H04W84/12 OR H04W88/02 OR H04W88/06).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:29
S190	22	("20010034475" | "20020013518" | "20020084698" | "20020115914" | "20030206116" | "20030220673" | "20040004460" | "20040147818" | "20050138428" | "6213942" | "6221012" | "6497656" | "6525854" | "6544174" | "6589170" | "6616606" | "6654631" | "6749566" | "6819013" | "6870475" | "7061924" | "7316648").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:30

S191	2	S182 AND ((H04M1/663 OR H04M1/725 OR H04M1/72527 OR H04M1/7253 OR H04M1/72569 OR H04M2250/10 OR H04M2250/12).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:30
S192	22	("20010034475" | "20020013518" | "20020084698" | "20020115914" | "20030206116" | "20030220673" | "20040004460" | "20040147818" | "20050138428" | "6213942" | "6221012" | "6497656" | "6525854" | "6544174" | "6589170" | "6616606" | "6654631" | "6749566" | "6819013" | "6870475" | "7061924" | "7316648").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:30
S193	0	(proximit$3) and "6"$phone and entity and (physiological adj2 parameter) and (first adj air adj interface) and (second adj air adj interface) and absent and ((unlicens$3 licens$3) near4 (frequenc$3 bandwidth band))"clm."	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:34
S194	0	(absent stop$4) same (entity (base adj station) (access adj point)) same "6"$phone same (first adj2 interfac$3) same (second adj2 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:36
S195	0	(absent stop$4) same (entity (base adj station) (access adj point)) same "6"$phone and (first adj2 interfac$3) same (second adj2 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:37
S196	3	S176 AND ((H04Q2213/13092 OR H04Q2213/13098 OR H04Q2213/13103 OR H04Q2213/13104 OR H04Q2213/13389 OR H04Q3/00).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:46
S197	7	S176 AND ((H04M1/72536 OR H04M2242/04 OR H04M2242/15 OR H04M3/5116 OR H04M11/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:47
S198	236	("20020001367" | "20020027975" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050104745" | "20050151642" | "20060293024" | "20070030146" | "20070033095" | "20070049287" | "20070053308" | "20070058528" | "20070060097" | "20070161383" | "20070164872" | "20070218895" | "20080019268" | "20080063153" | "20080081646" | "20080166990" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:49

"20080194238" | "20080294058" |
"20090186596" | "20090257345" |
"20090322513" | "20100002846" |
"20100156626" | "20100159976" |
"20100166153" | "20100202368" |
"20100238018" | "20100262668" |
"20110009086" | "20110071880" |
"20110086607" | "20110103266" |
"20110134897" | "20110153368" |
"20110201357" | "20110263219" |
"20120002792" | "20120028599" |
"20120029970" | "20120092161" |
"20120144019" | "20120202428" |
"20120210325" | "20120218102" |
"20120257729" | "20120289243" |
"20120295575" | "20120309341" |
"20130005295" | "20130030825" |
"20130084824" | "20130122932" |
"20130138791" | "20130183924" |
"20130185368" | "20130203373" |
"20130203376" | "20130226369" |
"20130237175" | "20130237181" |
"20130331055" | "20140051379" |
"20140086108" | "20140087680" |
"20140113606" | "20140126356" |
"20140148120" | "20140155018" |
"20140199959" | "20140248848" |
"20140324351" | "20150029836" |
"20150055453" | "20150081209" |
"20150109125" | "20150111524" |
"20150137972" | "20150172897" |
"20150181401" | "20150289121" |
"20150304827" | "20150317392" |
"20150350262" | "20150358794" |
"20150365319").PN. OR
("20160004224" | "20160026768" |
"20160050550" | "20160088455" |
"20160219084" | "20160219397" |
"20160269535" | "20160307436" |
"20160315923" | "20160337831" |
"20160345171" | "20160363931" |
"20170004427" | "20170140637" |
"20170142568" | "20170150335" |
"20170161614" | "20170164175" |
"20170171735" | "20170180486" |
"20170180963" | "20170180966" |
"20170195475" | "20170213251" |
"20170238129" | "20170238136" |
"20170245113" | "20180020091" |
"20180039737" | "20180077282" |
"20180242133" | "20180249315" |
"5013271" | "5022878" | "5379337" |
"5479482" | "5563931" | "5596625" |
"5710803" | "5742666" | "6014555" |
"6249674" | "6252943" | "6477362" |
"6502030" | "6510315" | "6556816" |
"6571092" | "6594666" | "6600812" |
"6628933" | "7058385" | "7224773" |
"7324801" | "7349706" | "7409044" |
"7436938" | "7437143" | "7469138" |
"7483519" | "7519351" | "7519372" |
"7548158" | "7565131" | "7646854" |
"7676215" | "7684782" | "7848733" |
"7949326" | "8009810" | "8041335" |

		"8041341" | "8045954" | "8068881" | "8102972" | "8126424" | "8150367" | "8165560" | "8165562" | "8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8484352" | "8489062" | "8509729" | "8516122" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8751265" | "8760290" | "8811935" | "8825687" | "8848877").PN. OR ("8866606" | "8868028" | "8880021" | "8890685" | "8948732" | "8971839" | "8984143" | "9008078" | "9019870" | "9071643" | "9077676" | "9078092" | "9094816" | "9167379" | "9244922" | "9258680" | "9277389" | "9351142" | "9369847" | "9402159" | "9503876" | "9544750" | "9591467" | "9635534" | "9659484" | "9693213" | "9736670" | "9756169" | "9805430").PN.				
S199	145	("20020001367" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20060293024" | "20070033095" | "20070053308" | "20070058528" | "20070161383" | "20080019268" | "20080081646" | "20080294058" | "20090257345" | "20090322513" | "20100002846" | "20100159976" | "20100238018" | "20110086607" | "20110134897" | "20110153368" | "20110263219" | "20120002792" | "20120029970" | "20120202428" | "20120210325" | "20120218102" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130138791" | "20130183924" | "20130203373" | "20130203376" | "20130226369" | "20140051379" | "20140113606" | "20140126356" | "20140148120" | "20140155018" | "20140199959" | "20140248848" | "20150055453" | "20150109125" | "20150111524" | "20150137972" | "20150172897" | "20150289121" | "20150350262" | "20150358794" | "20150365319" | "20160026768" | "20160050550" | "20160088455" | "20160219084" | "20160269535" | "20160307436" | "20160363931" | "20170004427" | "20170150335" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:49

		"7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560").PN. OR ("8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "8890685" | "9008078" | "9019870" | "9094816" | "9258680" | "9351142" | "9369847" | "9402159" | "9544750" | "9635534" | "9693213").PN.				
S200	112	("20020120698" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20070033095" | "20070053308" | "20080081646" | "20080294058" | "20090322513" | "20100002846" | "20100159976" | "20110086607" | "20110134897" | "20110153368" | "20120002792" | "20120029970" | "20120202428" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130203373" | "20130226369" | "20140051379" | "20140113606" | "20140148120" | "20140199959" | "20150137972" | "20150172897" | "20150350262" | "20150358794" | "20160026768" | "20160050550" | "20160088455" | "20160269535" | "20160307436" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560" | "8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "9008078" | "9019870" | "9258680" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:49

		"9369847" | "9544750").PN.				
S201	3	S176 AND ((H04Q2213/13092 OR H04Q2213/13098 OR H04Q2213/13103 OR H04Q2213/13104 OR H04Q2213/13389 OR H04Q3/00).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:50
S202	65	(first adj2 interfac$3) same (second adj3 interfac$3) same (proximit$3 (short adj2 range)) same (entity person animal vehicle (shopping adj card))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:53
S203	9	S175 and S202	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:53
S204	34	("20010050990" | "20010055396" | "20020049681" | "20020069361" | "20020162003" | "20030028495" | "20030076961" | "20030172122" | "20040109568" | "20050054334" | "20050246533" | "20060015736" | "20060227808" | "20060293035" | "20070022162" | "20070022295" | "20070143596" | "20070220614" | "20080148397" | "20080222425" | "20080288278" | "20090100263" | "20090106557" | "20090113328" | "20100121928" | "20100121931" | "20120143967" | "5872849" | "6009177" | "6202150" | "6389136" | "6463534" | "7082538" | "7243238").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:53
S205	19	("5136646" | "5553145" | "5615269" | "5629982" | "5666420" | "5790665" | "5812670" | "5935246" | "5946396" | "6047242" | "6115699" | "6119108" | "6134326" | "6137884" | "6141750" | "6182142" | "6185683" | "6301660" | "6334118").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S206	13	("4232370" | "4652990" | "5023907" | "5388211" | "5649187" | "5678046" | "5724425" | "5828751" | "5923763" | "5943423" | "5960085" | "5970143" | "5978475").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S207	8	("5659616" | "5671279" | "5712914" | "5796841" | "5878144" | "5884158" | "5903878" | "5987440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S208	22	("4200770" | "4218582" | "4405829" | "4558176" | "4771461" | "4868877" | "4995082" | "5001752" | "5005200" | "5136643" | "5150411" | "5164988" | "5199070" | "5214700" | "5214702" | "5222140" | "5261002" | "5276737" | "5313521" | "5315658" | "5499295" | "5787172").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55

S209	5	("20030143987" | "20040090937" | "20050288021" | "20060153133" | "6876642").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S210	2	15/800885	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:42
S211	6	(first adj2 interfac$3) same (second adj3 interfac$3) same (proximit$3 (short adj2 range)) same (entity person animal vehicle (shopping adj card)) and transaction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:55
S212	12	("20060152369" | "20080084312" | "20090117872" | "20110260839" | "20120242294" | "20130265140" | "20130293190" | "20140025444" | "20140340267" | "20140364772" | "20150119728" | "20150154490").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:56
S213	48	("20030220105" | "20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20060194538" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070243872" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8023580" | "8463238" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:56
S214	43	("20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:56

		"7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8532069" | "8646060" | "RE39736").PN.				
S215	4	S211 AND ((H04W48/04 OR H04W4/02 OR H04W4/023 OR H04W4/80 OR H04W76/10 OR H04W88/06).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S216	5	S211 AND ((G06Q30/0601 OR G06Q10/00).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S217	4	S211 AND ((H04L67/18).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S218	1	S211 AND ((G06F8/60 OR G06F9/24 OR G06F9/48).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S219	48	("20030220105" | "20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20060194538" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070243872" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8023580" | "8463238" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:59
S220	43	("20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:59

		"20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8532069" | "8646060" | "RE39736").PN.				
S223	7	12/264711 and transaction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:22
S224	1	12/264711 and transaction with store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:23
S225	99	transaction near4 pay$3 with store same item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:27
S226	2	(cellular portable mobule pda iphone ipad) same transaction near4 pay$3 with store same item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:27
S227	1857	(cellular portable mobule pda iphone ipad) same store near8 check$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:29
S228	452	(cellular portable mobule pda iphone ipad) near9 store near8 check$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:29
S230	13	(cellular portable mobule pda iphone ipad) near9 store near8 check$2out same ((short adj range) proximity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:30
S232	914	(cellular portable mobule pda iphone	US-PGPUB;	OR	OFF	2019/05/07

		ipad) near15 (transaction pay$3) near8 (item product)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:34
S233	69	(cellular portable mobule pda iphone ipad) near15 (transaction pay$3) near8 (item product) near16 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:37
S234	3	"08249935"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:01
S235	602	(cellular portable mobule pda iphone ipad) same ((transaction pay$3 check$3 adj out)) same (item product) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:04
S236	162	(cellular portable mobule pda iphone ipad) same ((transaction pay$3 check$3 adj out)) near9 (item product) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:05
S238	29	"10219199"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:32
S240	1	"08249935"	USPAT	OR	OFF	2019/05/08 15:18
S241	52	(cellular portable mobule pda iphone ipad) near15 ((transaction pay$3 check$3 adj out)) near9 (item product) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/08 16:06
S242	10	S241 AND ((H04W12/08 OR H04W12/12 OR H04W4/02 OR H04W12/0013 OR H04W12/0023 OR H04W12/02 OR H04W4/50 OR H04W4/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/08 16:06
S243	96	(financial adj transaction) same authoriz$6 same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2019/12/11 12:31

			EPO; JPO; DERWENT; IBM_TDB			
S244	66	S243 AND ((G06Q20/32 OR G06Q20/40 OR G06Q20/202 OR G06Q20/3278 OR G06Q20/327 OR G06Q20/322 OR G06Q20/325 OR G06Q20/20 OR G06Q20/3226 OR G06Q20/38215 OR G06Q20/401 OR G06Q20/3227 OR G06Q20/4012 OR G06Q20/40145 OR G06Q20/04 OR G06Q20/3674 OR G06Q20/3821 OR G06Q20/385 OR G06Q20/42 OR G06Q20/3223 OR G06Q40/02 OR G06Q20/00 OR G06Q20/26 OR G06Q30/00 OR G06Q20/045 OR G06Q20/10 OR G06Q20/108 OR G06Q20/3829 OR G06Q20/4016 OR G06Q20/352 OR G06Q20/4014 OR G06Q20/02 OR G06Q20/4018 OR G06Q2220/00 OR G06Q30/06 OR G06Q20/105 OR G06Q20/1085 OR G06Q20/3255 OR G06Q20/3274 OR G06Q20/347 OR G06Q20/353 OR G06Q20/363 OR G06Q20/405 OR G06Q40/00 OR G06Q40/12 OR G06Q20/027 OR G06Q20/0453 OR G06Q20/16 OR G06Q20/18 OR G06Q20/223 OR G06Q20/24 OR G06Q20/3224 OR G06Q20/3229 OR G06Q20/3276 OR G06Q20/341 OR G06Q20/35785 OR G06Q20/36 OR G06Q20/3672 OR G06Q20/3825 OR G06Q20/403 OR G06Q20/425 OR G06Q30/02 OR G06Q30/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/11 12:31
S245	51	(financial adj transaction) same authoriz$6 same (short-range (short adj range)) same (phone portable cellular pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/11 12:33
S246	19	S245 AND ((H04W12/06 OR H04W12/02 OR H04W12/00522 OR H04W12/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/11 12:33

12/ 12/ 2019 2:18:53 PM
C:\ Users\ mvu1\ Documents\ EAST\ Workspaces\ 16251834_Transaction.wsp

UNITED STATES PATENT AND TRADEMARK OFFICE

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.
16/251,834	01/18/2019	Peter D. Karabinis	1348.002US5	1391

138517 7590 03/02/2020

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

EXAMINER	
VU, MICHAEL T	

ART UNIT	PAPER NUMBER
2641	

NOTIFICATION DATE	DELIVERY MODE
03/02/2020	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):

docketing@carlsoncaspers.com
eofficeaction@appcoll.com

IPR2025-01235
Apple EX1002 Page 230

Applicant-Initiated Interview Summary	**Application No.** 16/251,834	**Applicant(s)** Karabinis et al.	
	Examiner MICHAEL T VU	**Art Unit** 2641	**AIA (FITF) Status** No

All participants (applicant, applicants representative, PTO personnel):

(1) MICHAEL T. VU. (3) _____.

(2) Aaron W Pederson. (4) _____.

Date of Interview: 26 February 2020.

Type: ☑ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☑ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☑Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1-19.

Identification of prior art discussed: _____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicant's representative (Mr. Pederson) discussed and explained the invention of claims 1, 5, 9, and 14 to get clarification and addition advisement, Mr. Pederson and Examiner Vu further discussed the proposed amendment. However, the examiner invited the applicant to amend the independent claims 1, 5, and cancel claims 9-19 in order to expedite prosecution of this application. Nonetheless, the examiner will require further consideration and search after received the applicant's response based on claims amendments..

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	16251834	Filing Date	2019-01-18	Docket Number (if applicable)	1348.002US5	Art Unit	2641
First Named Inventor	Peter D. Karabinis			Examiner Name	Vu, Michael T.		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☐ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 502880

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

Signature of Registered U.S. Patent Practitioner			
Signature	/Aaron W. Pederson/	Date (YYYY-MM-DD)	2020-03-09
Name	Aaron W. Pederson	Registration Number	58607

This collection of information is required by 37 CFR 1.114. 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 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.

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

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.

Electronic Patent Application Fee Transmittal

Application Number:	16251834
Filing Date:	18-Jan-2019
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Filer:	Aaron Wesley Pederson/Sage Kruse
Attorney Docket Number:	1348.002US5

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	2202	13	50	650
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
RCE- 1ST REQUEST	2801	1	650	650
		Total in USD ($)		**1300**

Electronic Acknowledgement Receipt

EFS ID:	38804480
Application Number:	16251834
International Application Number:	
Confirmation Number:	1391
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	138517
Filer:	Aaron Wesley Pederson/Sage Kruse
Filer Authorized By:	Aaron Wesley Pederson
Attorney Docket Number:	1348.002US5
Receipt Date:	09-MAR-2020
Filing Date:	18-JAN-2019
Time Stamp:	15:00:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1300
RAM confirmation Number	E202039F00411810
Deposit Account	502880
Authorized User	Sage Kruse

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

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)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		1348002US5Response.pdf	109777 9a1ce6579f93387f5e07857ac17e71b904b72104	yes	14
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	1	
	Claims		2	11	
	Applicant Arguments/Remarks Made in an Amendment		12	14	
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	1348002US5RCE.pdf	1349934 a35c8e444281f5223d787b4b9cafc896c486f2ed	no	3
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	32265 f5b845fde6e9646c27982ad2de631d2f949c6ef6	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1491976		

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	16/251,834
Applicant	:	Telcom Ventures LLC
Filed	:	January 18, 2019
Art Unit	:	2641
Examiner	:	Michael T VU
Confirmation No.:		1391
Docket No.	:	1348.002US5
Customer No.	:	138517
Title	:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

RESPONSE W/ RCE

Mail Stop: RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Final Office Action mailed December 17, 2019, please consider the following:

Amendments to the Claims, beginning at page 2 of this paper;

Remarks, beginning on page 12 of this paper.

Should any additional fee be deemed to be due for this filing or any other fees required for the subjection application, please charge the appropriate amount to Deposit Account No. 502880.

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently Amended) A method of operating a smartphone in performing a plurality of financial transactions, the method comprising:

responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone, enabling a mode to communicate by the smartphone information requesting an authorization;

while the mode is enabled, transmitting by the smartphone first data to a first device, the first data relating to a plurality of financial transactions to be conducted;

receiving by the smartphone second data from the first device responsive to said transmitting by the smartphone the first data, the second data relating to the plurality of financial transactions to be conducted and differing from the first data;

performing a first transaction of the plurality of financial transactions by:

detecting by the smartphone that a proximity condition is satisfied between the smartphone and [[an]] a first entity, wherein the first entity is distinct from the first device;

establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity, in response to the proximity condition having been satisfied between the smartphone and the first entity;

receiving, using the first air interface, a short-range signal from the first entity; and

responsive to receiving the short-range signal from the first entity, sending by the smartphone to the first entity over the first air interface, information associated with the second data received from the first device; and

independent of performing said first transaction, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface,

wherein said transmitting by the smartphone first data and said receiving by the smartphone second data are performed over an air interface that differs from the first air interface.

IPR2025-01235
Apple EX1002 Page 242

2. (Currently Amended) The method of Claim 1, wherein establishing the wireless short-range communications link between the smartphone and the first entity is performed ~~in response to a physiological parameter~~ responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone.

3. (Currently Amended) The method of Claim 1, wherein sending by the smartphone to the first entity, information associated with the second data, is performed ~~in response to a physiological parameter~~ responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone.

4. (Currently Amended) The method of Claim 1, wherein sending by the smartphone to the first entity, information associated with the second data, is performed ~~in response~~ responsive to a value of at least one parameter associated with the smartphone.

5. (Currently Amended) A smartphone that is configured to perform operations associated with a plurality of financial transactions; the operations comprising:

responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone, enabling a mode to communicate by the smartphone information requesting an authorization;

while the mode is enabled, transmitting first data to a first device as a precursor to performing [[a]] the plurality of financial transactions; and

receiving second data from the first device responsive to said transmitting the first data;

performing a first financial transaction ~~to pay for one or more items~~ of the plurality of financial transactions by:

detecting by the smartphone that a proximity condition is satisfied between the smartphone and [[an]] a first entity, wherein the first entity is distinct from the first device;

establishing, using a first air interface, a wireless short-range communications link between the smartphone and the first entity, in response to the proximity condition having been satisfied between the smartphone and the first entity;

IPR2025-01235
Apple EX1002 Page 243

receiving, using the first air interface, a short-range signal from the first entity; and

responsive to receiving the short-range signal from the first entity, sending to the first entity over the first air interface, information based on the second data received from the first device; and

independent of performing a transaction to pay for one or more items, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface,

wherein said transmitting first data and said receiving second data are performed over an air interface that differs from the first air interface.

6. (Currently Amended) The smartphone of Claim 5, wherein establishing the wireless short-range communications link between the smartphone and the first entity is performed ~~in response to a physiological parameter~~ responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone.

7. (Currently Amended) The smartphone of Claim 5, wherein sending by the smartphone to the first entity, information based on the second data, is performed ~~in response to a physiological parameter~~ responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone.

8. (Currently Amended) The smartphone of Claim 5, wherein sending by the smartphone to the first entity, information based on the second data, is performed ~~in response~~ responsive to a value of at least one parameter associated with the smartphone.

9. (Currently Amended) A smartphone that is configured to perform operations comprising:

receiving a communications service from a wireless network via a first air interface;

responsive to a physiological parameter having been sensed by a sensor of the smartphone, enabling a mode of the smartphone to communicate information requesting an authorization;

IPR2025-01235
Apple EX1002 Page 244

while the mode is enabled, transmitting over the first air interface a request to a first device as a precursor to performing a financial transaction;

receiving from the first device over the first air interface authorization data responsive to the request;

detecting that a proximity condition is satisfied between the smartphone and [[an]] a first entity, the first entity being distinct from the first device;

establishing, using a second air interface, a wireless short-range communications link between the smartphone and the first entity, in response to the proximity condition having been satisfied between the smartphone and the first entity;

receiving, using the second air interface, a short-range signal from the first entity; and

responsive to receiving the short-range signal from the first entity, sending over the second air interface to the first entity, information ~~to at least one unit~~ associated with said authorization for performing a transaction to pay for one or more items.

10. (Currently Amended) The smartphone of claim 9, wherein establishing the wireless short-range communications link between the smartphone and the first entity ~~and sending over the second air interface information for performing a transaction is performed in response to~~ is further responsive to having sensed by a sensor of the smartphone a physiological parameter.

11. (Currently Amended) The smartphone of claim 9, wherein sending over the second air interface information to the first entity for performing a transaction to pay for one or more items is ~~performed in response~~ further responsive to a physiological parameter having been sensed by a sensor of the smartphone.

12. (Currently Amended) The smartphone of claim 9, wherein sending over the second air interface information to the first entity for performing a transaction to pay for one or more items is ~~performed in response~~ further responsive to a value of at least one parameter that is associated with the smartphone, an environment thereof and/or a living organism associated therewith.

13. (Previously presented) The smartphone according to claim 9, wherein receiving said authorization data is necessary in order to enable the smartphone to pay for a transaction.

IPR2025-01235
Apple EX1002 Page 245

14. (Currently Amended) A smartphone that is configured to perform operations with respect to financial transactions, the operations comprising:

responsive to a physiological parameter having been sensed by a sensor of the smartphone, enabling a mode to communicate by the smartphone information requesting an authorization;

while the mode is enabled, requesting the authorization by transmitting first data to a first device~~, the first data relating to a plurality of financial transactions to be conducted~~;

receiving second data from the first device responsive to said transmitting the first data~~, the second data relating to a plurality of financial transactions to be conducted~~ the second data providing the authorization; and

performing a first transaction of the ~~plurality of~~ financial transactions by sending to a first entity over a short-range link and over a short-range air interface, information associated with the second data received from the first device;

wherein the first entity is distinct from the first device; and

wherein said transmitting ~~by the smartphone~~ first data and said receiving ~~by the smartphone~~ second data are performed over an air interface that differs from the short-range air interface.

15. (Currently Amended) The smartphone of claim 14, wherein said performing a first transaction of the ~~plurality of~~ financial transactions by sending to a first entity over a short-range link and over a short-range air interface, information associated with the second data received from the first device, is responsive to a proximity condition having been satisfied between the smartphone and the first entity and is further responsive to a value of at least one parameter that is associated with the smartphone, an environment thereof and/or a living organism associated therewith.

16. (Previously Presented) The smartphone of claim 15, wherein said value of at least one parameter that is associated with the smartphone, an environment thereof and/or a living organism associated therewith comprises a physiological parameter.

IPR2025-01235
Apple EX1002 Page 246

17. (Currently Amended) The smartphone of claim 14, wherein the operations further comprise:

performing a second transaction of the ~~plurality of~~ financial transactions by sending to a second entity over a short-range link and over [[a]] the short-range air interface, information associated with the second data received from the first device;

wherein the second entity is distinct from the first device and is further distinct from the first entity.

18. (Previously Presented) The smartphone of claim 14, wherein said transmitting first data to a first device comprises transmitting data relating to a request to pay for a plurality of transactions and wherein said receiving second data comprises receiving data relating to an acknowledgement and/or authorization of enabling a mode/function to pay for the plurality of transactions.

19. (Currently Amended) The smartphone of claim 14, ~~wherein said transmitting first data to a first device comprises~~ comprising:

transmitting data to a second device relating to a request to pay for a plurality of transactions, wherein the second device is distinct from the first device; and

~~wherein said receiving second data comprises~~ receiving data from the second device relating to an acknowledgement and/or authorization of enabling a mode/function to pay for the plurality of transactions.

20. (New) The smartphone of claim 14, wherein said operations further comprise:

responsive to said performing a first transaction of the financial transactions, causing data to be transmitted selectively to a plurality of other predetermined devices and further causing data to be received selectively from said plurality of other predetermined devices.

21. (New) The smartphone of claim 9, wherein the operations further comprise:

performing an additional transaction to pay for an additional item, other than said one or more items, by sending to a second entity over a short-range link and over the second air interface, information associated with the second data received from the first device;

IPR2025-01235
Apple EX1002 Page 247

wherein the second entity is distinct from the first device and is further distinct from the first entity.

22. (New) The smartphone of claim 9,

wherein said transmitting over the first air interface a request to a first device as a precursor to performing a financial transaction includes transmitting data relating to a request to pay for a transaction; and

wherein said receiving from the first device over the first air interface authorization data responsive to the request includes receiving data relating to an acknowledgement and/or authorization of enabling a mode/function to pay for the transaction.

23. (New) The smartphone of claim 9, wherein said operations further comprise:

transmitting over the first air interface by the smartphone a second request to a second device, that is distinct from the first device and is further distinct from the first entity, as a precursor to performing a financial transaction; and

receiving data from the second device relating to an acknowledgement and/or authorization of enabling a mode/function to pay for a financial transaction.

24. (New) The smartphone of claim 9, wherein said operations further comprise:

responsive to performing a financial transaction, causing data to be transmitted selectively to a plurality of predetermined devices and further causing data to be received selectively from said plurality of predetermined devices.

25. (New) The smartphone of claim 5, wherein the operations further comprise:

performing a second financial transaction of the plurality of financial transactions by:

detecting by the smartphone that a proximity condition is satisfied between the smartphone and a second entity; wherein the second entity is distinct from the first entity and is further distinct from the first device;

establishing, using the first air interface, a wireless short-range communications link between the smartphone and the second entity, in response to the proximity condition having been satisfied between the smartphone and the second entity;

IPR2025-01235
Apple EX1002 Page 248

receiving, using the first air interface, a short-range signal from the second entity; and

responsive to receiving the short-range signal from the second entity, sending by the smartphone to the second entity over the first air interface, information associated with the second data received from the first device.

26. (New) The smartphone of claim 5,

wherein said transmitting by the smartphone first data to a first device includes transmitting by the smartphone data relating to a request to pay for a transaction; and

wherein said receiving by the smartphone second data from the first device includes receiving by the smartphone data relating to an acknowledgement and/or authorization of enabling a mode/function to pay for a transaction.

27. (New) The smartphone of claim 5, wherein said operations further comprise:

transmitting third data to a second device; the second device being distinct from the first device and further being distinct from the first entity; and

receiving by the smartphone fourth data from the second device relating to an acknowledgement and/or authorization of enabling a mode/function to pay for a financial transaction;

wherein said transmitting by the smartphone third data to a second device and said receiving by the smartphone fourth data from the second device are performed over the air interface that differs from the first air interface.

28. (New) The smartphone of claim 5, wherein said operations further comprise:

responsive to performing a financial transaction, causing data to be transmitted selectively to a plurality of predetermined devices and further causing data to be received selectively from said plurality of predetermined devices.

29. (New) The method of claim 1, wherein the method further comprises:

performing a second transaction of the plurality of financial transactions by:

IPR2025-01235
Apple EX1002 Page 249

detecting by the smartphone that a proximity condition is satisfied between the smartphone and a second entity, wherein the second entity is distinct from the first entity and is further distinct from the first device;

establishing, using the first air interface, a wireless short-range communications link between the smartphone and the second entity, in response to the proximity condition having been satisfied between the smartphone and the second entity;

receiving, using the first air interface, a short-range signal from the second entity; and

responsive to receiving the short-range signal from the second entity, sending by the smartphone to the second entity over the first air interface, information associated with the second data received from the first device.

30. (New) The method of claim 1,

wherein said transmitting by the smartphone first data to a first device includes transmitting by the smartphone data relating to a request to pay for a transaction; and

wherein said receiving by the smartphone second data from the first device includes receiving by the smartphone data relating to an acknowledgement and/or authorization of enabling a mode/function to pay for a transaction.

31. (New) The method of claim 1, comprising:

transmitting by the smartphone third data to a second device; the second device being distinct from the first device and further being distinct from the first entity; and

receiving by the smartphone fourth data from the second device relating to an acknowledgement and/or authorization of enabling a mode/function to pay for a financial transaction,

wherein said transmitting by the smartphone third data to a second device and said receiving by the smartphone fourth data from the second device are performed over the air interface that differs from the first air interface.

32. (New) The method of claim 1, wherein said operations further comprise:

IPR2025-01235
Apple EX1002 Page 250

responsive to performing a financial transaction, causing data to be transmitted selectively to a plurality of predetermined devices and further causing data to be received selectively from said plurality of predetermined devices.

33. (New) The method of claim 1, wherein the second air interface comprises an Orthogonal Frequency Division Multiplexed and/or an Orthogonal Frequency Division Multiple Access (OFDM/OFDMA) technology.

IPR2025-01235
Apple EX1002 Page 251

REMARKS

This paper is responsive to the Final Office Action dated December 17, 2019 wherein claims 1-19 were pending and rejected. With this paper, claims 1-12, 14, 15, 17, and 19 are amended and new claims 20-33 are added. Upon entry, claims 1-33 will be pending in this application. Reconsideration and further prosecution of the present application is respectfully requested.

Examiner Interview Summary

Applicant's representative, Aaron Pederson (Reg. No. 58,607), thanks Examiner Vu for the opportunity to discuss aspects of the subject application in a telephone call on February 26, 2020. During the call a proposed amendment to independent claims 1, 5, 9, and 14 was discussed. No specific agreement was reached, and the Examiner indicated he would likely update his search of the prior art in response to formal submission of the amendment with an RCE.

Double Patenting

Claims 1-8 were previously rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 1, 6, 8-10, 16, and 18-19 of US 10,219,199. Applicant respectfully traverses these rejections. At page 2, paragraph 3, Examiner suggest the filing of a Terminal Disclaimer.

Independent claims 1 and 5 are amended herein rendering the double patenting rejection moot. Applicant respectfully requests reconsideration and withdrawal of the double patenting rejections to claims 1-8.

IPR2025-01235
Apple EX1002 Page 252

Rejections Under 35 U.S.C. § 103

Claims 1-19 were rejected under 35 USC § 103 as being unpatentable over U.S. Patent Publication No. 2006/0165060 to Dua (hereinafter "Dua"), in view of U.S. Patent Publication No. 2004/0143550 to Creamer (hereinafter "Creamer"). Applicant respectfully traverses these rejections.

Amended claim 1 recites in pertinent part:

> responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone, enabling a mode to communicate by the smartphone information requesting an authorization ...

Applicant respectfully asserts that neither Dua nor Creamer, nor the combination thereof, teach or suggest this language. The Final Office Action asserted that paragraphs [0026], [0089], and [0495] of Dua taught "the service parameters interaction based on the transaction reads on a physiological parameter". None of these paragraphs, however, nor anywhere else in Dua or Creamer, teach or suggest "enabling a mode to communicate ... responsive to at least one physiological parameter ..." as recited in amended claim 1. Independent claims 5, 9, and 14 include similar language.

Accordingly, Applicant respectfully asserts that the combination of Dua and Creamer does not teach or suggest each and every limitation of independent claims 1, 5, 9, and 14. Applicant respectfully requests reconsideration and withdrawal of the rejections to claims 1, 5, 9, and 14 under 35 USC § 103 with respect to Dua and Creamer.

Claims 2-4, 6-8, 10-13, and 15-19 variously depend from or contain similar language to claims 1, 5, 9, and 14. Accordingly, Applicant respectfully requests reconsideration and withdrawal of the rejection of these claims for the reasons provided above with respect to claims 1, 5, 9, and 14.

IPR2025-01235
Apple EX1002 Page 253

SUMMARY

For the reasons set out above, Applicant respectfully submits that the application is in condition for allowance. Favorable reconsideration and allowance of the application are, therefore, respectfully requested.

If the Examiner believes that anything further is necessary to place the application in better condition for allowance, the Examiner is asked to contact Applicant's undersigned representative at the telephone number below.

Customer No. 138517

Date: March 9, 2020

Attorneys for Applicant
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St., Ste. 4200
Minneapolis, Minnesota 55402

Respectfully submitted,

/Aaron W. Pederson/

Aaron Pederson
Registration No. 58607

Tel No. (612) 436-9609

IPR2025-01235
Apple EX1002 Page 254

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. 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 displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/251,834	Filing Date 01/18/2019	☐ 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 $230 =	
☐ 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	03/09/2020	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 33	Minus	** 20	= 13		x $50 =	650
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 0		x $230 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	650

		(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.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ANTHONY TYSON/
*** 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.**

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

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US5

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8091780	B2	2012-01-10	Todd et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16251834
	Filing Date	2019-01-18
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Michael T VU
	Attorney Docket Number	1348.002US5

	1	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/012,513, 12/19/2019, pp. 1-14	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US5

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Aaron W. Pederson/	Date (YYYY-MM-DD)	2020-03-16
Name/Print	Aaron Pederson	Registration Number	58607

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

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 record s.

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.

Electronic Acknowledgement Receipt

EFS ID:	38879089
Application Number:	16251834
International Application Number:	
Confirmation Number:	1391
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	138517
Filer:	Aaron Wesley Pederson/Sage Kruse
Filer Authorized By:	Aaron Wesley Pederson
Attorney Docket Number:	1348.002US5
Receipt Date:	16-MAR-2020
Filing Date:	18-JAN-2019
Time Stamp:	16:46:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	SupplementalIDS1348002US5.pdf	1053159 04071eedcb113709b5af870890c8691abface448	no	4

Warnings:

IPR2025-01235
Apple EX1002 Page 260

Information:					
2	Non Patent Literature	16012513FinalOADated19DEC2019.pdf	12528540 3275be77ce01bbd040d953aeb2737ada452bfd5f	no	14
Warnings:					
Information:					
			Total Files Size (in bytes):	13581699	

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.

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	16251834
Filing Date	18-Jan-2019
First Named Inventor	Peter Karabinis
Attorney Docket Number	1348.002US5
Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

☒ 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
Telcom Ventures LLC	100%

The owner(s) with 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)

10219199

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.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:
- 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 presently shortened by any terminal disclaimer.

◉ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

○ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status: ◉ Small Entity ○ Micro Entity ○ Regular Undiscounted I hereby declare that all statements made herein of my own knowledge are true and that all statements 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.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES 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 Registration Number 58607 ○ A sole inventor ○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ○ A joint inventor; all of whom are signing this request	
Signature	/Aaron W. Pederson/
Name	Aaron Pederson

*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.

Electronic Patent Application Fee Transmittal

Application Number:	16251834
Filing Date:	18-Jan-2019
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Filer:	Aaron Wesley Pederson
Attorney Docket Number:	1348.002US5

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**160**

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 16251834

Filing Date: 18-Jan-2019

Applicant/Patent under Reexamination: Karabinis

Electronic Terminal Disclaimer filed on April 15, 2020

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	39171121
Application Number:	16251834
International Application Number:	
Confirmation Number:	1391
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION
First Named Inventor/Applicant Name:	Peter D. Karabinis
Customer Number:	138517
Filer:	Aaron Wesley Pederson
Filer Authorized By:	
Attorney Docket Number:	1348.002US5
Receipt Date:	15-APR-2020
Filing Date:	18-JAN-2019
Time Stamp:	18:38:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$160
RAM confirmation Number	E20204EI38330465
Deposit Account	502880
Authorized User	Aaron Pederson

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

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)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33645 3b1b08d86b5c13f9000f7ab66b57d8f6b30c6bba	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30448 ae259fdfce3f9a82037bb6fadf53daa08a5123e7	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	64093		

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

138517 7590 04/22/2020

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

EXAMINER
VU, MICHAEL T

ART UNIT	PAPER NUMBER
2641	

DATE MAILED: 04/22/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/251,834	01/18/2019	Peter D. Karabinis	1348.002US5	1391

TITLE OF INVENTION: MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	07/22/2020

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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 and an extra copy of the form should be submitted. 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 EFS-Web.

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 including the Patent, advance orders and notification of maintenance fees 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.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

138517 7590 04/22/2020

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

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 EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/251,834	01/18/2019	Peter D. Karabinis	1348.002US5	1391

TITLE OF INVENTION: MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	07/22/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
VU, MICHAEL T	2641	455-456300

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/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 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) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ 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

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

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.
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.
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. _____

IPR2025-01235
Apple EX1002 Page 270

UNITED STATES PATENT AND TRADEMARK OFFICE

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.
16/251,834	01/18/2019	Peter D. Karabinis	1348.002US5	1391

138517 7590 04/22/2020

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

EXAMINER	
VU, MICHAEL T	

ART UNIT	PAPER NUMBER
2641	

DATE MAILED: 04/22/2020

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.

IPR2025-01235
Apple EX1002 Page 271

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. 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 disclosure of these records is required by the Freedom of Information Act.
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 inspection 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.

IPR2025-01235
Apple EX1002 Page 272

Notice of Allowability	Application No. 16/251,834	Applicant(s) Karabinis et al.	
	Examiner MICHAEL T VU	Art Unit 2641	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 04/16/2020.
   ☐ 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 1-8 and 25-33 . 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. 04/16/2020.
5. ☑ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/MICHAEL T VU/
Primary Examiner, Art Unit 2641

DETAILED ACTION

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/09/2020 has been entered.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 03/16/2020 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Terminal Disclaimer

4. The terminal disclaimer filed on 04/15/2020 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 11/04/2008 (see Date of Continuation on BIB) has been reviewed and is accepted. The terminal disclaimer has been approved on 04/15/2020.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

6. Authorization for this examiner's amendment was given in a telephone interview with Aaron Pederson on April 16, 2020.

Please amend the applicant as follow:

7. **Claims 9-24 have been cancelled.**

Allowable Subject Matter

8. **Claims 1-8, 25-33** are allowed.

9. The following is an examiner's statement of reasons for allowance:

With respect to claims 1 and 5, the closest prior art record, Dua (US 2006/0165060) teaches a method of operating a smartphone in performing a plurality of financial transactions, the method comprising:

However, Dua alone or in combination fails teaches or fairly suggest;

responsive to at least one physiological parameter having been sensed by at least one sensor of the smartphone, enabling a mode to communicate by the smartphone information requesting an authorization;

while the mode is enabled, transmitting by the smartphone first data to a first device, the first data relating to a plurality of financial transactions to be conducted;

....independent of performing said first transaction, receiving by the smartphone a communications service from a wireless network, using a second air interface that differs from the first air interface,

wherein said transmitting by the smartphone first data and said receiving by the smartphone second data are performed over an air interface that differs from the first air interface.

Dependent claims 2-4, 6-8, and 25-33 are allowable for the same reason as set forth above.

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".

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL T VU whose telephone number is

(571)272-8131. The examiner can normally be reached on 8:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles N. Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/MICHAEL T VU/
Primary Examiner, Art Unit 2641

Examiner-Initiated Interview Summary	Application No. 16/251,834	Applicant(s) Karabinis et al.	
	Examiner MICHAEL T VU	Art Unit 2641	AIA (FITF) Status No

All participants (applicant, applicant's representative, PTO personnel):

(1) MICHAEL T. VU. (3) _____.

(2) Aaron Pederson. (4) _____.

Date of Interview: 16 April 2020.

Type: ☑ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☑ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: _____.

Issues Discussed ☐ 101 ☐ 112 ☐ 102 ☐ 103 ☑ Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 9-24.

Identification of prior art discussed: _____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicant's representative authorized entry of an Examiner's Amendment to cancel claims 9-24, in order to expedite prosecution of the application in condition for allowance.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/251,834	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

CPC - Searched*		
Symbol	Date	Examiner
h04W 48/04	04/15/2020	MTV

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
Inventor Name: Peter Karabinis	04/15/2020	MTV
Assignee: Telcom Ventures	04/15/2020	MTV
Double Patent Rejected	04/15/2020	MTV
EAST Searched System	04/15/2020	MTV
Telework Covid-19	04/15/2020	MTV

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
Interference	Text Searched	04/15/2020	MTV

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

IPR2025-01235
Apple EX1002 Page 279

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/251,834	Karabinis et al.
	Examiner	**Art Unit**
	MICHAEL T VU	2641

CPC							
Symbol						**Type**	**Version**
H04W	/	48	/	04		F	2013-01-01
H04W	/	4	/	029		I	2018-02-01
G06Q	/	30	/	0601		I	2013-01-01
H04W	/	4	/	023		I	2013-01-01
H04L	/	67	/	18		I	2013-01-01
H04W	/	4	/	80		I	2018-02-01
H04W	/	76	/	10		I	2018-02-01
H04W	/	88	/	06		A	2013-01-01

CPC Combination Sets								
Symbol						**Type**	**Set**	**Ranking**	**Version**
	/		/						

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	17	
/MICHAEL T VU/ Primary Examiner, Art Unit 2641	15 April 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20200415

IPR2025-01235
Apple EX1002 Page 280

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/251,834	Karabinis et al.
	Examiner	**Art Unit**
	MICHAEL T VU	2641

INTERNATIONAL CLASSIFICATION					
CLAIMED					
H04W	/	4	/	02	
NON-CLAIMED					
	/		/		

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE (Assistant Examiner) (Date)	**Total Claims Allowed:** 17	
/MICHAEL T VU/ Primary Examiner, Art Unit 2641 (Primary Examiner) 15 April 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

U.S. Patent and Trademark Office Part of Paper No.: 20200415

IPR2025-01235
Apple EX1002 Page 281

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/251,834	Karabinis et al.
	Examiner	**Art Unit**
	MICHAEL T VU	2641

☐ 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
1	1		10		19	17	28								
2	2		11		20	5	29								
3	3		12		21	6	30								
4	4		13		22	7	31								
10	5		14		23	8	32								
11	6		15		24	9	33								
12	7		16	14	25										
13	8		17	15	26										
	9		18	16	27										

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	17	
/MICHAEL T VU/ Primary Examiner, Art Unit 2641	15 April 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office Part of Paper No.: 20200415

IPR2025-01235
Apple EX1002 Page 282

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(multiple plurality) near2 transaction same (physiological near2 (parameter value))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 16:53
L2	20557	sens$3 near9 (physiological near2 (parameter value))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 16:53
L3	450	sens$3 near9 (physiological near2 (parameter value)) same (proximit$3 (short-range) (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 16:54
L4	13	sens$3 near9 (physiological near2 (parameter value)) same (proximit$3 (short-range) (short adj range)) same (author$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 16:55
L5	0	sens$3 near9 (physiological near2 (parameter value)) same (proximit$3 (short-range) (short adj range)) same (author$7) and transaction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 16:57

L6	13	4 AND ((G06F19/3418 OR G06F19/3475 OR G06F19/3481).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 16:58
L7	7	4 AND ((H04Q2213/13092 OR H04Q2213/13098 OR H04Q2213/13103 OR H04Q2213/13104 OR H04Q2213/13389 OR H04Q3/00).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 16:58
L8	6	4 AND ((G06Q50/22 OR G06Q50/24).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 16:59
L9	1365452	455/$.ccls. 370/$.ccls. 709/$.ccls. 705/$.ccls. 379/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 16:59
L10	4	6 and 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:06
L11	57	sens$3 near9 (physiological near2 (parameter value)) same (proximit$3 (short-range) (short adj range)) and transaction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:12

L12	3	11 AND ((H04W4/80 OR H04W48/04 OR H04W4/023 OR H04W4/029 OR H04W76/10 OR H04W88/06).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:12
L13	34	11 AND ((G06F19/3418 OR G06F19/00 OR G06F3/0482 OR G06F19/323 OR G06F19/327 OR G06F21/31 OR G06F21/32 OR G06F21/41 OR G06F2221/2115 OR G06F2221/2139).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:13
L14	11	11 AND ((H04L2209/805 OR H04L9/0844 OR H04L67/12 OR H04L2209/88 OR H04L67/04 OR H04L67/14 OR H04L9/0822 OR H04L9/083 OR H04L9/0869 OR H04L9/321 OR H04L9/3273 OR H04L63/0492 OR H04L63/0861 OR H04L63/1416 OR H04L67/02 OR H04L67/10 OR H04L67/18).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:14
L15	5	11 AND ((G06Q50/00 OR G06Q20/20 OR G06Q20/202 OR G06Q20/322 OR G06Q20/3278 OR G06Q20/387 OR G06Q20/40145 OR G06Q30/02 OR G06Q30/0203 OR G06Q30/0224 OR G06Q30/0238 OR G06Q30/0255 OR G06Q30/0267 OR G06Q30/0268 OR G06Q30/0601 OR G06Q50/22).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:14
L16	2185	2 AND ((G06F19/00 OR G06F19/3481 OR G06F1/163 OR G06F3/016 OR G06F3/0227 OR G06F19/3418 OR G06F3/015 OR G06F17/5009 OR G06F19/3431 OR G06F2203/011 OR G06F2209/547 OR G06F3/011 OR G06F3/012 OR G06F3/013 OR G06F3/017 OR G06F3/048 OR G06F3/162 OR G06F9/546 OR H04Q2213/13092 OR H04Q2213/13098 OR H04Q2213/13103 OR H04Q2213/13104 OR H04Q2213/13389 OR H04Q3/00).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/04/15 17:16

L18	4	sens$3 near9 (physiological near2 (parameter value)) and (proximit$3 (short-range) (short adj range)) same (author$7) and transaction and first near2 interface and second near2 interface.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:17
L19	2108	(transaction) same authoriz$6 same (short-range (short adj range) proximity bluetooth RFID) same (phone portable cellular pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:34
L20	22	(transaction) same authoriz$6 same (short-range (short adj range) proximity bluetooth RFID) same (phone portable cellular pda iphone ipad) and (physiological near2 (parameter value))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:35
L21	3	20 AND ((H04W48/04 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W76/10 OR H04W88/06).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:35
L22	13	20 AND ((G06F21/32 OR G06F16/90344 OR G06F16/90348 OR G06F19/30 OR G06F3/014 OR G06F3/015).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:36
L23	7	20 AND ((H04L29/06 OR H04L67/18 OR H04L63/0853 OR H04L63/0861).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:36

L24	6	20 AND ((G06Q30/0601 OR G06Q20/3224 OR G06Q20/401 OR G06Q30/00).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/04/15 17:37
S1	29754	local near8 activat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/30 15:57
S2	5	local near8 activat$3 same (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/30 15:58
S4	2694	(local WLAN) same (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:10
S5	460	connect$4 near6 (local WLAN) same (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:11
S6	11	connect$4 near6 (local WLAN) same determin$4 with (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:11

S7	87	S5 AND ((H04W84/12 OR H04W12/08 OR H04W24/02 OR H04W24/08 OR H04W4/26 OR H04W28/0215 OR H04W28/0268 OR H04W28/0289 OR H04W28/12 OR H04W36/14 OR H04W4/001 OR H04W80/04 OR H04W84/042 OR H04W24/00 OR H04W28/021 OR H04W28/0221 OR H04W28/0247 OR H04W28/0257 OR H04W28/0284 OR H04W28/20 OR H04W48/04 OR H04W48/06 OR H04W48/16 OR H04W52/0212 OR H04W52/0264 OR H04W12/00 OR H04W28/02 OR H04W4/24 OR H04W88/06 OR H04W88/08 OR H04W40/02 OR H04W4/008 OR H04W76/02 OR H04W88/12 OR H04W8/02 OR H04W12/02 OR H04W12/06 OR H04W24/04 OR H04W28/08 OR H04W28/10 OR H04W36/26 OR H04W40/12 OR H04W48/14 OR H04W48/20 OR H04W4/005 OR H04W4/006 OR H04W4/02 OR H04W4/023 OR H04W4/06 OR H04W4/12 OR H04W4/18 OR H04W4/20 OR H04W52/0203 OR H04W72/0453 OR H04W76/022 OR H04W80/06 OR H04W84/04 OR H04W84/20 OR H04W88/02 OR H04W88/04 OR H04W88/085 OR H04W88/10 OR H04W8/18 OR H04W8/20).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/05/31 06:12
S8	67	(local WLAN) same indicat$4 same activat$3 and (terminat$3 stop$4 end$3) with wide near4 network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:43
S9	21	S8 AND ((H04W76/02 OR H04W88/04 OR H04W4/008 OR H04W88/10 OR H04W12/00 OR H04W88/06 OR H04W16/14 OR H04W28/08 OR H04W28/10 OR H04W40/12 OR H04W48/18 OR H04W4/001 OR H04W4/021 OR H04W4/24 OR H04W88/02 OR H04W88/16 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:44

		H04W12/04 OR H04W12/06 OR H04W12/08 OR H04W28/06 OR H04W4/043 OR H04W52/0209 OR H04W74/00 OR H04W8/26).CPC.)				
S10	9	S8 AND ((G06Q10/06 OR G06Q30/02 OR G06Q30/0233 OR G06Q30/0601 OR G06Q10/02 OR G06Q30/00 OR G06Q30/04 OR G06Q50/30).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:45
S11	8	S8 AND ((G06F1/3203 OR G06F11/1448 OR G06F11/1458 OR G06F11/2294 OR G06F2009/4557 OR G06F2009/45575 OR G06F9/4443 OR G06F9/45558 OR G06F9/4856).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:45
S12	2272	((SOUMYA NEAR2 DAS) OR (BONGYONG NEAR2 SONG) OR (SAMIR NEAR3 SOLIMAN)).IN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:46
S13	0	S8 AND S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/06/01 15:46
S14	85	((sari near2 nielsen) or (antti near2 toskala)).in.	USPAT	OR	OFF	2017/06/01 15:48
S15	0	S8 and S14	USPAT	OR	OFF	2017/06/01 15:48
S16	1360	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/11/13 12:49

			DERWENT; IBM_TDB			
S17	26	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network) same (detect$3 whether) with ((local adj area adj network) WLAN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 12:50
S18	9	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network) same (detect$3 whether) same (indicat$3) same ((local adj area adj network) WLAN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 12:50
S19	6	(UE mobile terminal) same (disconnect$4 terminat$3) with ((wide cellular) adj4 network) and (unlicensed adj band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 13:08
S21	30	(UE mobile terminal) same (wide adj area adj network) same activat$3 same ((long adj term adj evolution adj network) LTE)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 14:02
S22	100	(UE mobile terminal) same (local adj area adj network) same (indicat$3 with activat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 14:33
S23	115	((terminat$3 end$3) near9 (unlicens$3 adj2 band))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/05/16 19:53

			DERWENT; IBM_TDB			
S24	43	((terminat$3 end$3) near9 (unlicens$3 adj2 band)) same LTE	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 19:54
S26	150	((terminat$3 end$3) near9 ((unlicens$3 adj2 band) LTE-U))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:16
S27	31	UE same ((terminat$3 end$3) near9 ((unlicens$3 adj2 band) LTE-U))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:17
S28	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:20
S29	24	((terminat$3) near9 (unlicens$3 adj2 band))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:31
S30	18	S29 AND ((H04W16/14 OR H04W72/0453 OR H04W28/08 OR H04W84/045 OR H04W84/12 OR H04W88/02 OR H04W88/06 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2018/05/16 20:35

		H04W72/02 OR H04W72/042 OR H04W72/0446 OR H04W76/06 OR H04W76/30 OR H04W28/26 OR H04W72/0406 OR H04W72/14 OR H04W24/08 OR H04W24/10 OR H04W28/18 OR H04W48/16 OR H04W48/18 OR H04W52/04 OR H04W56/0005 OR H04W60/00 OR H04W64/00 OR H04W72/00 OR H04W72/04 OR H04W72/044 OR H04W72/0486 OR H04W72/1289 OR H04W74/006 OR H04W74/0833 OR H04W74/085 OR H04W76/27 OR H04W88/12 OR H04W8/02 OR H04W92/20).CPC.)	JPO; DERWENT; IBM_TDB			
S31	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:36
S32	8	("20060246903" | "20070281704" | "20080002658" | "20080113624" | "20090054058" | "20110289175" | "6850489" | "8509788").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:36
S33	9	S29 AND ((H04L1/00 OR H04L27/0006 OR H04L27/26 OR H04L5/0048 OR H04L5/001 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/0085 OR H04L5/0091 OR H04L5/14 OR H04L1/0003 OR H04L1/0009 OR H04L1/0061 OR H04L1/18 OR H04L1/1861 OR H04L5/0007 OR H04L5/0044 OR H04L5/0053 OR H04L5/0092).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:37
S34	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:37

		"7363008" | "8126473" | "8565178" | "8767666").PN.				
S35	131	S26 AND ((H04W16/14 OR H04W74/0808 OR H04W72/0453 OR H04W72/1215 OR H04W84/12 OR H04W72/0446 OR H04W74/0816 OR H04W72/042 OR H04W88/06 OR H04W88/10 OR H04W24/08 OR H04W88/02 OR H04W88/08 OR H04W72/082 OR H04W84/045 OR H04W48/16 OR H04W74/006 OR H04W28/26 OR H04W72/00 OR H04W72/02 OR H04W72/044 OR H04W84/042 OR H04W8/005 OR H04W16/16 OR H04W24/02 OR H04W24/10 OR H04W48/12 OR H04W52/0206 OR H04W52/243 OR H04W56/001 OR H04W72/0406 OR H04W72/0413 OR H04W72/085 OR H04W72/14 OR H04W74/08 OR H04W76/28 OR H04W12/06 OR H04W16/32 OR H04W28/08 OR H04W28/18 OR H04W40/16 OR H04W4/24 OR H04W52/04 OR H04W52/241 OR H04W52/244 OR H04W56/00 OR H04W72/04 OR H04W72/0426 OR H04W72/048 OR H04W72/0486 OR H04W72/1252 OR H04W72/1268 OR H04W74/002 OR H04W74/04 OR H04W74/0833 OR H04W76/15 OR H04W76/27 OR H04W88/12 OR H04W92/20 OR H04W12/08 OR H04W24/00 OR H04W28/14 OR H04W28/16 OR H04W36/22 OR H04W36/385 OR H04W40/244 OR H04W48/00 OR H04W48/20 OR H04W4/02 OR H04W4/20 OR H04W52/143 OR H04W52/281 OR H04W52/367 OR H04W56/0005 OR H04W56/0015 OR H04W60/00 OR H04W64/00 OR H04W72/005 OR H04W72/10 OR H04W72/121 OR H04W72/1247 OR H04W72/1263 OR H04W72/1273 OR H04W72/1289 OR H04W74/004 OR H04W74/008 OR H04W74/06 OR H04W74/0841 OR H04W74/085 OR H04W76/046 OR H04W76/048 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:38

		H04W76/06 OR H04W76/30 OR H04W8/02 OR H04W8/22 OR H04W8/24 OR H04W92/10).CPC.)				
S36	5	("20120039284" | "20130201884" | "20130208587" | "20130315152" | "20150016239").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S37	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S38	13	("20040264475" | "20060194540" | "20070171909" | "20110044218" | "20120051342" | "20120069766" | "20130337821" | "20140044105" | "20150124740" | "20150223075" | "20150271226" | "20150334744" | "6526264").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S39	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S40	8	("20060223448" | "20080122581" | "20110021153" | "20110128895" | "20130163449" | "20160338019" | "20170127449" | "8155102").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S41	1	("20140044105").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:40
S42	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41

		"20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.				
S43	8	("20080108366" | "20110228742" | "20130143502" | "20140044105" | "20150189676" | "20150264699" | "20160294516" | "8792900").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S44	10	("20120120892" | "20130196653" | "20140029535" | "20140187287" | "20140213219" | "20140369329" | "20150009850" | "20150063323" | "8290503" | "8767576").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S45	44	("20090129332" | "20090285169" | "20100172254" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130003591" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130142059" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050146" | "20140050170" | "20140087748" | "20140126403" | "20140301351" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S46	18	("20090197627" | "20100048234" | "20100208685" | "20100273515" | "20110228666" | "20110299479" | "20110300891" | "20120044898" | "20120052891" | "20120100883" | "20120176998" | "20120231834" | "20130034091" | "20130044662" | "20130343219" | "20140080501" | "20140086195" | "20150087352").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41

S47	4	("20050207381" | "20120076081" | "20130208587" | "20150215100").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S48	61	S26 AND ((H04L5/0048 OR H04L27/0006 OR H04L5/0053 OR H04L5/001 OR H04L5/0055 OR H04L5/0073 OR H04L5/14 OR H04L1/20 OR H04L5/0098 OR H04L1/00 OR H04L1/0003 OR H04L1/0009 OR H04L1/0015 OR H04L27/2601 OR H04L27/2613 OR H04L41/0803 OR H04L5/0007 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/0085 OR H04L5/0091 OR H04L12/1407 OR H04L1/0026 OR H04L1/0027 OR H04L1/0038 OR H04L1/0061 OR H04L1/0073 OR H04L1/18 OR H04L1/1861 OR H04L1/1887 OR H04L25/0238 OR H04L25/0242 OR H04L27/2605 OR H04L27/2611 OR H04L27/2626 OR H04L27/2656 OR H04L27/2666 OR H04L27/2675 OR H04L41/0893 OR H04L41/5019 OR H04L43/0894 OR H04L43/10 OR H04L43/16 OR H04L47/29 OR H04L47/52 OR H04L5/00 OR H04L5/0005 OR H04L5/0032 OR H04L5/0035 OR H04L5/005 OR H04L5/0051 OR H04L5/0058 OR H04L5/0092 OR H04L5/08 OR H04L65/102 OR H04L65/1073 OR H04L69/22 OR H04L7/00).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:41
S49	74	("20020156897" | "20020167933" | "20020197991" | "20030114158" | "20030119490" | "20030165124" | "20030176186" | "20040001461" | "20040067753" | "20040072581" | "20040090958" | "20040105416" | "20040142693" | "20040203788" | "20040229621" | "20050018637" | "20050090259" | "20050221828" | "20050271008" | "20060020694" | "20060058032" | "20060073826" | "20060095954" | "20060098598" | "20060111112" | "20060116127" | "20060148479" | "20060223498" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42

		"20060268799" | "20070008885" | "20070026862" | "20070083470" | "20070091839" | "20070173251" | "20070268908" | "20080076420" | "20080091612" | "20080189550" | "20080254833" | "20080259886" | "20080311917" | "20090061863" | "20090092081" | "20090110168" | "20090129338" | "20090219826" | "20090220216" | "20090265542" | "20090287922" | "20100093307" | "20100161638" | "20100190492" | "20100214977" | "20100226347" | "20110055574" | "20110076998" | "20110093945" | "20130324115" | "5406615" | "5475677" | "5854982" | "6493437" | "6647426" | "6680923" | "6922559" | "6925074" | "7127250" | "7283822" | "7308263" | "7324818" | "7565145" | "7623486" | "8340711" | "8738084").PN.				
S50	37	("20090129332" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050170" | "20140087748" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S51	22	("20030104849" | "20050089057" | "20060148482" | "20060187952" | "20090122736" | "20100124254" | "20100167742" | "20100177757" | "20100197317" | "20110228666" | "20120015607" | "20120077510" | "20120129522" | "20120207036" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42

		"20130058218" | "20130136097" | "20130344883" | "20140342745" | "20150009871" | "20150156636" | "6295285" | "8478282").PN.				
S52	4	("20130203429" | "20140335876" | "20140341135" | "20150223075").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S53	4	("20050207381" | "20120076081" | "20130208587" | "20150215100").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S54	44	("20090129332" | "20090285169" | "20100172254" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130003591" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130142059" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050146" | "20140050170" | "20140087748" | "20140126403" | "20140301351" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S55	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42

		"20140133371" | "20150063148" | "8494580" | "9253778").PN.				
S56	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:42
S57	13	("20040264475" | "20060194540" | "20070171909" | "20110044218" | "20120051342" | "20120069766" | "20130337821" | "20140044105" | "20150124740" | "20150223075" | "20150271226" | "20150334744" | "6526264").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S58	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S59	13	S26 AND ((H04B17/318 OR H04B17/336 OR H04B17/345 OR H04B10/272 OR H04B17/18 OR H04B1/40 OR H04B7/0413 OR H04B7/155 OR H04B7/15535 OR H04B7/2656).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S60	1	("20140044105").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S61	2	("20120051748" | "20120166819").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:43
S62	2	S26 AND ((H04Q11/0067 OR H04Q2011/0081 OR H04Q2011/0084 OR H04Q2011/0088).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44
S63	2	("20120051748" | "20120166819").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44

S64	3	S26 AND ((H04M15/00 OR H04M15/41 OR H04M15/55 OR H04M15/66).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44
S65	74	("20020156897" | "20020167933" | "20020197991" | "20030114158" | "20030119490" | "20030165124" | "20030176186" | "20040001461" | "20040067753" | "20040072581" | "20040090958" | "20040105416" | "20040142693" | "20040203788" | "20040229621" | "20050018637" | "20050090259" | "20050221828" | "20050271008" | "20060020694" | "20060058032" | "20060073826" | "20060095954" | "20060098598" | "20060111112" | "20060116127" | "20060148479" | "20060223498" | "20060268799" | "20070008885" | "20070026862" | "20070083470" | "20070091839" | "20070173251" | "20070268908" | "20080076420" | "20080091612" | "20080189550" | "20080254833" | "20080259886" | "20080311917" | "20090061863" | "20090092081" | "20090110168" | "20090129338" | "20090219826" | "20090220216" | "20090265542" | "20090287922" | "20100093307" | "20100161638" | "20100190492" | "20100214977" | "20100226347" | "20110055574" | "20110076998" | "20110093945" | "20130324115" | "5406615" | "5475677" | "5854982" | "6493437" | "6647426" | "6680923" | "6922559" | "6925074" | "7127250" | "7283822" | "7308263" | "7324818" | "7565145" | "7623486" | "8340711" | "8738084").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:44
S66	131	S26 AND ((H04W16/14 OR H04W74/0808 OR H04W72/0453 OR H04W72/1215 OR H04W84/12 OR H04W72/0446 OR H04W74/0816 OR H04W72/042 OR H04W88/06 OR H04W88/10 OR H04W24/08 OR H04W88/02 OR H04W88/08 OR H04W72/082 OR H04W84/045 OR H04W48/16 OR H04W74/006 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:46

		H04W28/26 OR H04W72/00 OR H04W72/02 OR H04W72/044 OR H04W84/042 OR H04W8/005 OR H04W16/16 OR H04W24/02 OR H04W24/10 OR H04W48/12 OR H04W52/0206 OR H04W52/243 OR H04W56/001 OR H04W72/0406 OR H04W72/0413 OR H04W72/085 OR H04W72/14 OR H04W74/08 OR H04W76/28 OR H04W12/06 OR H04W16/32 OR H04W28/08 OR H04W28/18 OR H04W40/16 OR H04W4/24 OR H04W52/04 OR H04W52/241 OR H04W52/244 OR H04W56/00 OR H04W72/04 OR H04W72/0426 OR H04W72/048 OR H04W72/0486 OR H04W72/1252 OR H04W72/1268 OR H04W74/002 OR H04W74/04 OR H04W74/0833 OR H04W76/15 OR H04W76/27 OR H04W88/12 OR H04W92/20 OR H04W12/08 OR H04W24/00 OR H04W28/14 OR H04W28/16 OR H04W36/22 OR H04W36/385 OR H04W40/244 OR H04W48/00 OR H04W48/20 OR H04W4/02 OR H04W4/20 OR H04W52/143 OR H04W52/281 OR H04W52/367 OR H04W56/0005 OR H04W56/0015 OR H04W60/00 OR H04W64/00 OR H04W72/005 OR H04W72/10 OR H04W72/121 OR H04W72/1247 OR H04W72/1263 OR H04W72/1273 OR H04W72/1289 OR H04W74/004 OR H04W74/008 OR H04W74/06 OR H04W74/0841 OR H04W74/085 OR H04W76/046 OR H04W76/048 OR H04W76/06 OR H04W76/30 OR H04W8/02 OR H04W8/22 OR H04W8/24 OR H04W92/10).CPC.)				
S67	10	("20120120892" | "20130196653" | "20140029535" | "20140187287" | "20140213219" | "20140369329" | "20150009850" | "20150063323" | "8290503" | "8767576").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47

S68	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S69	8	("20060223448" | "20080122581" | "20110021153" | "20110128895" | "20130163449" | "20160338019" | "20170127449" | "8155102").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S70	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S71	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:47
S72	61	S26 AND ((H04L5/0048 OR H04L27/0006 OR H04L5/0053 OR H04L5/001 OR H04L5/0055 OR H04L5/0073 OR H04L5/14 OR H04L1/20 OR H04L5/0098 OR H04L1/00 OR H04L1/0003 OR H04L1/0009 OR H04L1/0015 OR H04L27/2601 OR H04L27/2613 OR H04L41/0803 OR H04L5/0007 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/0085 OR H04L5/0091 OR H04L12/1407 OR H04L1/0026 OR H04L1/0027 OR H04L1/0038 OR H04L1/0061 OR H04L1/0073 OR H04L1/18 OR H04L1/1861 OR H04L1/1887 OR	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:49

		H04L25/0238 OR H04L25/0242 OR H04L27/2605 OR H04L27/2611 OR H04L27/2626 OR H04L27/2656 OR H04L27/2666 OR H04L27/2675 OR H04L41/0893 OR H04L41/5019 OR H04L43/0894 OR H04L43/10 OR H04L43/16 OR H04L47/29 OR H04L47/52 OR H04L5/00 OR H04L5/0005 OR H04L5/0032 OR H04L5/0035 OR H04L5/005 OR H04L5/0051 OR H04L5/0058 OR H04L5/0092 OR H04L5/08 OR H04L65/102 OR H04L65/1073 OR H04L69/22 OR H04L7/00).CPC.)				
S73	74	("20020156897" | "20020167933" | "20020197991" | "20030114158" | "20030119490" | "20030165124" | "20030176186" | "20040001461" | "20040067753" | "20040072581" | "20040090958" | "20040105416" | "20040142693" | "20040203788" | "20040229621" | "20050018637" | "20050090259" | "20050221828" | "20050271008" | "20060020694" | "20060058032" | "20060073826" | "20060095954" | "20060098598" | "20060111112" | "20060116127" | "20060148479" | "20060223498" | "20060268799" | "20070008885" | "20070026862" | "20070083470" | "20070091839" | "20070173251" | "20070268908" | "20080076420" | "20080091612" | "20080189550" | "20080254833" | "20080259886" | "20080311917" | "20090061863" | "20090092081" | "20090110168" | "20090129338" | "20090219826" | "20090220216" | "20090265542" | "20090287922" | "20100093307" | "20100161638" | "20100190492" | "20100214977" | "20100226347" | "20110055574" | "20110076998" | "20110093945" | "20130324115" | "5406615" | "5475677" | "5854982" | "6493437" | "6647426" | "6680923" | "6922559" | "6925074" | "7127250" | "7283822" | "7308263" | "7324818" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50

		"7565145" | "7623486" | "8340711" | "8738084").PN.				
S74	37	("20090129332" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050170" | "20140087748" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S75	44	("20090129332" | "20090285169" | "20100172254" | "20110128895" | "20120069766" | "20120082140" | "20120093009" | "20120170557" | "20120243498" | "20120250631" | "20120264468" | "20130003591" | "20130010766" | "20130034018" | "20130058245" | "20130083661" | "20130094467" | "20130142059" | "20130178225" | "20130194981" | "20130208587" | "20130235814" | "20130242924" | "20130272260" | "20140036818" | "20140044000" | "20140044105" | "20140045494" | "20140050146" | "20140050170" | "20140087748" | "20140126403" | "20140301351" | "20150055621" | "20150063245" | "20150085683" | "20150085684" | "20150085792" | "20150085841" | "20150163794" | "20150163801" | "20150163823" | "20150208413" | "20150236782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50

S76	26	("20040162617" | "20080233967" | "20090262785" | "20100046440" | "20100091670" | "20100322287" | "20110110251" | "20110170424" | "20110205984" | "20110244904" | "20120120892" | "20120140656" | "20120207040" | "20120264388" | "20130065533" | "20130142059" | "20130143502" | "20130195072" | "20130315152" | "20130322279" | "20130336156" | "20130337821" | "20140133371" | "20150063148" | "8494580" | "9253778").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S77	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S78	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:50
S79	18	S29 AND ((H04W16/14 OR H04W72/0453 OR H04W28/08 OR H04W84/045 OR H04W84/12 OR H04W88/02 OR H04W88/06 OR H04W72/02 OR H04W72/042 OR H04W72/0446 OR H04W76/06 OR H04W76/30 OR H04W28/26 OR H04W72/0406 OR H04W72/14 OR H04W24/08 OR H04W24/10 OR H04W28/18 OR H04W48/16 OR H04W48/18 OR H04W52/04 OR H04W56/0005 OR H04W60/00 OR H04W64/00 OR H04W72/00 OR H04W72/04 OR H04W72/044 OR H04W72/0486 OR H04W72/1289 OR H04W74/006 OR H04W74/0833 OR H04W74/085 OR H04W76/27 OR H04W88/12 OR H04W8/02 OR H04W92/20).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/16 20:51

S80	8	("20060246903" | "20070281704" | "20080002658" | "20080113624" | "20090054058" | "20110289175" | "6850489" | "8509788").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:51
S81	18	("20050095986" | "20120113918" | "20120307748" | "20130336156" | "20130343288" | "20140023022" | "20140199992" | "20140254524" | "20150215952" | "20150223077" | "20150256303" | "20160007350" | "20160014610" | "20170141859" | "7363008" | "8126473" | "8565178" | "8767666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/16 20:51
S82	891	(terminat$3 stop$4 end$3) near9 (unlicens$3 un-licens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:29
S83	28	(respons$3 respond$3) near9 (terminat$3 stop$4 end$3) near9 (unlicens$3 un-licens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:33
S84	27	S83 AND ((H04W16/14 OR H04W72/0453 OR H04W72/1215 OR H04W72/042 OR H04W74/0808 OR H04W88/12 OR H04W36/14 OR H04W72/1226 OR H04W74/0816 OR H04W76/28 OR H04W84/12 OR H04W88/06 OR H04W28/20 OR H04W36/0038 OR H04W4/24 OR H04W4/80 OR H04W52/0216 OR H04W72/085 OR H04W72/1278 OR H04W74/002 OR H04W76/048 OR H04W76/20 OR H04W76/34 OR H04W84/105 OR H04W8/04 OR H04W8/18 OR H04W8/20 OR H04W8/26 OR H04W28/10 OR H04W52/0229 OR H04W72/0413 OR H04W72/082 OR H04W72/1289 OR H04W72/14 OR H04W76/025 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:34

		H04W76/068 OR H04W76/15 OR H04W76/38 OR H04W88/02 OR H04W88/10 OR H04W92/02).CPC.)				
S85	7	("20060009202" | "20070099653" | "20130003533" | "20150023315" | "20160338096" | "20170279565" | "20170311337").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:35
S86	24	("20080279155" | "20120063373" | "20120082100" | "20120129522" | "20120320874" | "20140003356" | "20140287769" | "20140301351" | "20140342745" | "20140378157" | "20160036617" | "20160095009" | "20160174214" | "20160205562" | "20160219623" | "20160233989" | "20160337867" | "20170079054" | "20170094681" | "20170280341" | "20170339717" | "8670780" | "8855069" | "8934909").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:35
S87	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S88	25	("20060223448" | "20070026868" | "20120077510" | "20130156019" | "20130203458" | "20130294356" | "20130337821" | "20140036818" | "20140036889" | "20140112289" | "20140342745" | "20150085683" | "20150131516" | "20150163681" | "20150181453" | "20150201429" | "20150223244" | "20150237548" | "20150382374" | "20160007368" | "20160135055" | "20160255648" | "20160295588" | "9326157" | "9392614").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S89	1	("20150223075").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S90	9	("20050025265" | "20100246506" | "20120077510" | "20120129522" | "20130143502" | "20140031054" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36

		"20140112289" | "5850596" | "7512094").PN.				
S91	2	("20130203458" | "20150223244").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S92	9	("20040203815" | "20070015536" | "20090196253" | "20090196268" | "20100278141" | "20110003575" | "20110117889" | "20110299511" | "8229440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36
S93	100	("20010036158" | "20020072364" | "20020085516" | "20020106029" | "20030032440" | "20030058822" | "20030112796" | "20030119489" | "20030123485" | "20030133423" | "20040008652" | "20040047364" | "20040073424" | "20040090989" | "20040131025" | "20040131051" | "20040192295" | "20040203791" | "20040254786" | "20040264482" | "20050105512" | "20050180456" | "20050195829" | "20050232232" | "20050265279" | "20050267746" | "20050286466" | "20060009202" | "20060050664" | "20060062225" | "20060083199" | "20060092927" | "20060099935" | "20060111112" | "20060142011" | "20060198347" | "20060209799" | "20060229068" | "20060245395" | "20060270411" | "20060276192" | "20060286981" | "20060291454" | "20060291483" | "20070011727" | "20070041360" | "20070043558" | "20070123196" | "20070135165" | "20070140214" | "20070171841" | "20070286082" | "20080039087" | "20080102794" | "20080123596" | "20080151845" | "20080198841" | "5375121" | "5513185" | "5867785" | "5905873" | "5999529" | "6011579" | "6046999" | "6147988" | "6167129" | "6215996" | "6339594" | "6424637" | "6625169" | "6647428" | "6731627" | "6731647" | "6791959" | "6850883" | "6967958" | "6983163" | "6990340" | "7006489" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:36

		"7054318" | "7054320" | "7068623" | "7072358" | "7082143" | "7089011" | "7095733" | "7103021" | "7106701" | "7162024" | "7180892" | "7203226" | "7305229" | "7349698" | "7369859" | "7398088" | "7400881" | "7433690" | "7471655" | "7830864" | "7835346").PN.				
S94	13	S83 AND ((H04L1/1812 OR H04L1/0026 OR H04L1/0027 OR H04L1/0073 OR H04L1/1822 OR H04L1/20 OR H04L29/06027 OR H04L65/1043 OR H04L1/1887 OR H04L47/14 OR H04L47/2441 OR H04L47/2491 OR H04L5/001).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S95	7	("20060009202" | "20070099653" | "20130003533" | "20150023315" | "20160338096" | "20170279565" | "20170311337").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S96	4	("20130170427" | "20130250931" | "20140341024" | "20160066306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S97	25	("20060223448" | "20070026868" | "20120077510" | "20130156019" | "20130203458" | "20130294356" | "20130337821" | "20140036818" | "20140036889" | "20140112289" | "20140342745" | "20150085683" | "20150131516" | "20150163681" | "20150181453" | "20150201429" | "20150223244" | "20150237548" | "20150382374" | "20160007368" | "20160135055" | "20160255648" | "20160295588" | "9326157" | "9392614").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:37
S98	2	("20130203458" | "20150223244").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:38
S99	100	("20010036158" | "20020072364" | "20020085516" | "20020106029" | "20030032440" | "20030058822" | "20030112796" | "20030119489" | "20030123485" | "20030133423" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:38

		"20040008652" | "20040047364" | "20040073424" | "20040090989" | "20040131025" | "20040131051" | "20040192295" | "20040203791" | "20040254786" | "20040264482" | "20050105512" | "20050180456" | "20050195829" | "20050232232" | "20050265279" | "20050267746" | "20050286466" | "20060009202" | "20060050664" | "20060062225" | "20060083199" | "20060092927" | "20060099935" | "20060111112" | "20060142011" | "20060198347" | "20060209799" | "20060229068" | "20060245395" | "20060270411" | "20060276192" | "20060286981" | "20060291454" | "20060291483" | "20070011727" | "20070041360" | "20070043558" | "20070123196" | "20070135165" | "20070140214" | "20070171841" | "20070286082" | "20080039087" | "20080102794" | "20080123596" | "20080151845" | "20080198841" | "5375121" | "5513185" | "5867785" | "5905873" | "5999529" | "6011579" | "6046999" | "6147988" | "6167129" | "6215996" | "6339594" | "6424637" | "6625169" | "6647428" | "6731627" | "6731647" | "6791959" | "6850883" | "6967958" | "6983163" | "6990340" | "7006489" | "7054318" | "7054320" | "7068623" | "7072358" | "7082143" | "7089011" | "7095733" | "7103021" | "7106701" | "7162024" | "7180892" | "7203226" | "7305229" | "7349698" | "7369859" | "7398088" | "7400881" | "7433690" | "7471655" | "7830864" | "7835346").PN.				
S100	1282274	455/$.ccls. 705/$.ccls. 379/$.ccls. 370/$.ccls. 709/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:42

S101	1	S83 AND ((G06F21/10 OR G06F21/105).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:43
S102	1	S83 AND ((G06Q10/10 OR G06Q30/06).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:43
S103	353	S82 and S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:44
S104	350	(determin$3 detect$3) same (terminat$3 stop$4 end$3) near9 (unlicens$3 un-licens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:45
S105	130	S100 and S104	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:46
S106	103	S105 AND ((H04W16/14 OR H04W84/12 OR H04W72/0453 OR H04W48/16 OR H04W52/367 OR H04W72/042 OR H04W52/146 OR H04W74/002 OR H04W74/0808 OR H04W4/02 OR H04W56/001 OR H04W72/02 OR H04W72/04 OR H04W74/0816 OR H04W24/02 OR H04W28/08 OR H04W48/14 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:46

		H04W52/243 OR H04W72/0406 OR H04W72/0426 OR H04W72/048 OR H04W72/082 OR H04W8/005 OR H04W16/16 OR H04W24/08 OR H04W24/10 OR H04W36/14 OR H04W48/12 OR H04W52/283 OR H04W52/30 OR H04W52/346 OR H04W52/36 OR H04W52/38 OR H04W52/52 OR H04W72/00 OR H04W84/045 OR H04W88/02 OR H04W24/00 OR H04W28/04 OR H04W36/22 OR H04W48/20 OR H04W52/04 OR H04W72/044 OR H04W72/0446 OR H04W72/0486 OR H04W72/1215 OR H04W72/1226 OR H04W72/1247 OR H04W72/1278 OR H04W74/00 OR H04W74/006 OR H04W74/04 OR H04W76/14 OR H04W84/042 OR H04W84/18 OR H04W88/06 OR H04W88/10 OR H04W8/26 OR H04W16/26 OR H04W28/0247 OR H04W28/0278 OR H04W28/06 OR H04W28/20 OR H04W28/26 OR H04W36/0072 OR H04W36/30 OR H04W40/22 OR H04W48/08 OR H04W48/10 OR H04W4/24 OR H04W52/0206 OR H04W52/0225 OR H04W52/0251 OR H04W52/281 OR H04W60/00 OR H04W64/00 OR H04W68/005 OR H04W72/005 OR H04W72/0413 OR H04W72/08 OR H04W72/085 OR H04W72/1263 OR H04W72/1284 OR H04W72/14 OR H04W74/08 OR H04W74/0833 OR H04W74/085 OR H04W76/023 OR H04W76/026 OR H04W76/12 OR H04W76/15 OR H04W76/16 OR H04W76/20 OR H04W76/27 OR H04W76/36 OR H04W80/00 OR H04W88/04 OR H04W88/08 OR H04W8/02 OR H04W8/04 OR H04W8/20).CPC.)				
S107	54	("20020138756" | "20020199203" | "20030074580" | "20030105978" | "20030135611" | "20040005886" | "20040088565" | "20040107360" | "20040123162" | "20040193907" | "20040221174" | "20050015622" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47

		"20050033596" | "20050044418" | "20050060537" | "20050132225" | "20050138408" | "20050144475" | "20050154885" | "20050166065" | "20050172142" | "20050188065" | "5666411" | "5673322" | "5721779" | "5732074" | "5901284" | "5987611" | "6012100" | "6061650" | "6081508" | "6151628" | "6185609" | "6253327" | "6377982" | "6453035" | "6493349" | "6507908" | "6539482" | "6643782" | "6654891" | "6694437" | "6732270" | "6748543" | "6751729" | "6760444" | "6766453" | "6778498" | "6785823" | "6850943" | "6874139" | "7111324" | "7240015" | "7340770").PN.				
S108	29	("20040192288" | "20080049776" | "4939726" | "5129096" | "5295154" | "5400338" | "5455569" | "5479400" | "5563881" | "5610839" | "5740366" | "5974236" | "5987011" | "6044062" | "6046992" | "6249516" | "6298053" | "6349091" | "6349210" | "6385174" | "6437692" | "6704301" | "6728514" | "6804532" | "6829347" | "6850502" | "6885660" | "6965575" | "6973039").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47
S109	31	("20070079012" | "20070183439" | "20070211866" | "20090116509" | "4939726" | "5129096" | "5295154" | "5400338" | "5455569" | "5479400" | "5563881" | "5610839" | "5740366" | "5974236" | "5987011" | "6044062" | "6046992" | "6249516" | "6298053" | "6349091" | "6349210" | "6385174" | "6437692" | "6704301" | "6728514" | "6804532" | "6829347" | "6850502" | "6885660" | "6965575" | "6973039").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47
S110	60	("20030093526" | "20050003827" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:47

		"20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195667" | "20100220687" | "20100229205" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110043710" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.				
S111	60	("20030093526" | "20050003827" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195667" | "20100220687" | "20100229205" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110043710" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120120904" | "20120165056" | "20120170534" | "20120218956" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48

		"6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.				
S112	11	("20020168993" | "20040127240" | "20040137905" | "20040180652" | "20050059422" | "20060018284" | "20070049239" | "20110306375" | "20120093092" | "8130708" | "8203987").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S113	6	("20060073827" | "20080205358" | "20090061783" | "20110110349" | "20110116458" | "20110280228").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S114	71	("20020154653" | "20030050012" | "20030093526" | "20050003827" | "20050070279" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080130519" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195667" | "20100220687" | "20100229205" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110019649" | "20110043710" | "20110045781" | "20110090887" | "20110090890" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120063364" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "20130114586" | "20130142132" | "6175739" | "6757550" | "6826400" | "6882841" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48

		"7280834" | "7742764" | "7917110" | "8032086").PN.				
S115	74	("20020154653" | "20030050012" | "20030093526" | "20050003827" | "20050070279" | "20060034236" | "20060062183" | "20060067354" | "20060218392" | "20070047492" | "20070192472" | "20070253394" | "20080130519" | "20080151796" | "20080171552" | "20080240024" | "20080298333" | "20090061783" | "20090158282" | "20090171930" | "20090191906" | "20090196180" | "20090207800" | "20090217333" | "20090253392" | "20090280748" | "20090298522" | "20090323835" | "20090325499" | "20100048234" | "20100061299" | "20100069013" | "20100081449" | "20100091712" | "20100111235" | "20100124254" | "20100142458" | "20100175101" | "20100195580" | "20100195590" | "20100195595" | "20100195667" | "20100220687" | "20100229205" | "20100240407" | "20100246434" | "20100246506" | "20100303026" | "20100309317" | "20100309806" | "20110019649" | "20110043710" | "20110045781" | "20110090887" | "20110090890" | "20110116458" | "20110222488" | "20110243078" | "20110286405" | "20120063364" | "20120120904" | "20120165056" | "20120170534" | "20120218956" | "20130114586" | "20130142132" | "6175739" | "6757550" | "6826400" | "6882841" | "7280834" | "7742764" | "7917110" | "8032086").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S116	10	("20020006788" | "20030207683" | "20090258603" | "20100128565" | "20110087639" | "20110116458" | "20110310253" | "20120008604" | "20120134328" | "20120282959").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48

S117	3	("20080130564" | "20080261563" | "20110216743").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S118	10	("20040203815" | "20060223524" | "20090125650" | "20100098011" | "20100191878" | "20100226430" | "20110028102" | "20110141983" | "7054790" | "7512094").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:48
S119	10	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:49
S120	11	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:49
S121	5	("20020082997" | "5790664" | "6343280" | "6697948" | "6810389").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:49
S122	9	S105 AND ((G06Q50/184 OR G06Q30/0222 OR G06Q30/0633 OR G06Q30/02 OR G06Q2220/18).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:50
S123	54	S105 AND ((H04L27/0006 OR H04L5/001 OR H04L5/0048 OR H04L65/60 OR H04L67/1002 OR H04L67/1025 OR H04L67/1038 OR H04L67/104 OR H04L67/1063 OR H04L67/1091 OR H04L67/322 OR H04L67/42 OR H04L51/32 OR H04L5/0085 OR H04L47/10 OR H04L47/14 OR H04L47/2408 OR H04L47/2416 OR H04L47/2441 OR H04L47/2458 OR H04L47/28 OR H04L47/29 OR H04L47/31 OR H04L47/50 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/14 OR H04L67/18 OR H04L67/306 OR H04L12/2898 OR	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:51

		H04L1/0026 OR H04L1/0027 OR H04L1/0073 OR H04L1/1812 OR H04L1/1822 OR H04L1/1835 OR H04L1/1887 OR H04L1/1896 OR H04L1/20 OR H04L27/261 OR H04L43/08 OR H04L47/30 OR H04L5/0007 OR H04L5/003 OR H04L5/0041 OR H04L5/005 OR H04L5/0051 OR H04L5/0053 OR H04L5/0055 OR H04L5/0058 OR H04L5/0062 OR H04L5/0069 OR H04L5/0091 OR H04L5/0094 OR H04L63/0272 OR H04L63/0414 OR H04L63/0428 OR H04L63/083 OR H04L63/102 OR H04L63/164 OR H04L69/16 OR H04L69/168 OR H04L9/3226 OR H04L9/3271).CPC.)				
S124	10	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:52
S125	5	("20020082997" | "5790664" | "6343280" | "6697948" | "6810389").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 11:52
S127	1	((terminat$3) near9 (unlicens$3 adj2 band)) and (positive adj2 (result report$3)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 11:55
S128	11	S105 AND ((G06F21/10 OR G06F15/167 OR G06F17/30766 OR G06F17/30772 OR G06F17/30867 OR G06F21/126 OR G06F2221/0775 OR G06F2221/2101 OR G06F2221/2141).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:02
S129	5	("20020082997" | "5790664" | "6343280" | "6697948" | "6810389").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:02

S130	1	((terminat$3 end$3 stop$4) near10 (unlicens$3 adj2 band)) and (positive adj2 (result report$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:10
S131	361	(UE mobile terminal) same (disconnect$4 terminat$3 end$3 stop$4) near10 (un-licens$3 unlicens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:46
S132	123	(UE mobile terminal) same (determin$4 detect$3) same (disconnect$4 terminat$3 end$3 stop$4) near10 (un-licens$3 unlicens$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:47
S133	36	S100 and S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:48
S134	35	S133 AND ((H04W16/14 OR H04W72/0453 OR H04W88/06 OR H04W74/0808 OR H04W84/12 OR H04W56/001 OR H04W84/045 OR H04W84/105 OR H04W4/02 OR H04W88/02 OR H04W24/00 OR H04W24/08 OR H04W28/04 OR H04W28/08 OR H04W36/14 OR H04W48/16 OR H04W4/24 OR H04W72/0446 OR H04W72/0486 OR H04W72/082 OR H04W72/1215 OR H04W72/1226 OR H04W72/1263 OR H04W74/002 OR H04W74/006 OR H04W74/04 OR H04W74/0816 OR H04W76/12 OR H04W76/20 OR H04W84/042 OR H04W8/04 OR H04W8/26 OR H04W24/10 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 12:48

		H04W28/0247 OR H04W28/06 OR H04W28/20 OR H04W28/26 OR H04W36/22 OR H04W48/10 OR H04W48/12 OR H04W4/04 OR H04W52/0206 OR H04W52/0225 OR H04W52/0251 OR H04W52/04 OR H04W60/00 OR H04W60/04 OR H04W64/00 OR H04W68/005 OR H04W72/00 OR H04W72/005 OR H04W72/02 OR H04W72/04 OR H04W72/0406 OR H04W72/0413 OR H04W72/042 OR H04W72/14 OR H04W74/08 OR H04W74/0833 OR H04W74/085 OR H04W76/023 OR H04W76/026 OR H04W76/14 OR H04W76/16 OR H04W76/27 OR H04W76/30 OR H04W84/16 OR H04W88/08 OR H04W88/10 OR H04W88/12 OR H04W88/16 OR H04W8/02 OR H04W92/02 OR H04W92/06).CPC.)				
S135	3	("20080130564" | "20080261563" | "20110216743").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:48
S136	9	("20040203815" | "20070015536" | "20090196253" | "20090196268" | "20100278141" | "20110003575" | "20110117889" | "20110299511" | "8229440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:49
S137	4	("20040071090" | "20080076386" | "20080115009" | "20080293407").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:49
S138	18	S133 AND ((H04L5/001 OR H04L27/0006 OR H04L5/0048 OR H04L5/0023 OR H04L5/0057 OR H04L5/006 OR H04L5/14 OR H04L63/164 OR H04L67/18 OR H04L67/306 OR H04L1/1812 OR H04L1/1822 OR H04L1/1835 OR H04L1/1887 OR H04L1/1896 OR H04L27/261 OR H04L47/30 OR H04L5/0007 OR H04L5/0041 OR H04L5/0051 OR H04L5/0053 OR H04L5/0055 OR H04L5/0062 OR H04L5/0069 OR H04L5/0085 OR	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:49

		H04L5/0091 OR H04L5/0094 OR H04L63/0272 OR H04L63/0428).CPC.)				
S139	3	("20080130564" | "20080261563" | "20110216743").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:50
S140	3	S133 AND ((H04B7/2656 OR H04B1/7087).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:50
S141	2	S133 AND ((G06Q30/02).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/05/17 12:50
S142	415	sensor same price with item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 16:00
S143	30	sensor same price with item near9 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/05/17 16:00
S144	730	authorization same different near8 protocol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:06
S145	130	authorization same different near8 protocol same (mobile phone cellular pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:06

S146	42	authorization same different near8 protocol same (mobile phone cellular pda iphone ipad) and (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:07
S147	468	enabling near6 mode same (mobile phone cellular pda iphone ipad) and (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:24
S148	33	enabling near6 mode same (mobile phone cellular pda iphone ipad) same (short adj3 range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:26
S149	2	"09832708"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:38
S150	1	"09462411"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 14:42
S151	1	15/800885	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:29

S152	1	15/800885 and involv$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:29
S153	1	15/800885 and (first adj2 interfac$3) and (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:31
S154	1	15/800885 andentity and (first adj2 interfac$3) and (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:45
S156	1	15/800885 and entity and (first adj2 interfac$3) and (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:46
S157	3472	(first adj2 interfac$3) same (second adj3 interfac$3) same independent$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:48
S158	10	(first adj2 interfac$3) same (second adj3 interfac$3) same independent$3 near8 entity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 15:50

S159	15	(first adj2 interfac$3) same (second adj3 interfac$3) same (short adj2 range) same (access adj point)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:19
S161	153	(first adj2 interfac$3) same (second adj3 interfac$3) and (short adj2 range) same (person animal (shopping adj card))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:26
S162	102813	(first adj2 interfac$3) same (second adj3 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:28
S163	386	(first adj2 interfac$3) same (second adj3 interfac$3) and (first adj time adj interval) and (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:29
S164	368	(first adj2 interfac$3) same (second adj3 interfac$3) and (first adj time adj interval) same (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:32
S165	61	(first adj2 interfac$3) same (second adj3 interfac$3) same (first adj time adj interval) same (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:35

S166	30	(first adj air adj interfac$3) same (second adj air adj interfac$3) and (first adj time adj interval) same (second adj time adj interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 16:42
S167	0	absent near4 involv$3 near8 ((base adj station) (access adj point))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:22
S168	0	absent near4 involv$3 same ((base adj station) (access adj point))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:23
S169	170	(absent stop$4) near4 involv$3 same ((base adj station) (access adj point))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:23
S170	11	2007/0129077	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:33
S171	1	11/584455	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/06 18:33

S172	19	(first adj2 interfac$3) same (second adj3 interfac$3) same (short adj2 range) same (person animal vehicle (shopping adj card))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/07 17:34
S173	10	S172 AND ((H04W84/12 OR H04W88/04 OR H04W48/18 OR H04W28/0231 OR H04W52/0229 OR H04W52/0274 OR H04W84/042 OR H04W88/06 OR H04W88/16 OR H04W92/02 OR H04W4/008 OR H04W4/02 OR H04W4/21 OR H04W4/80 OR H04W76/025 OR H04W76/10 OR H04W76/15 OR H04W84/10).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/08/07 17:34
S174	48	("20030220105" | "20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20060194538" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070243872" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8023580" | "8463238" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT	OR	OFF	2018/08/08 12:53
S175	1320305	455/$.ccls. 370/$.ccls. 379/$.ccls. 709/$.ccls. 705/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/12/27 15:20

			DERWENT; IBM_TDB			
S176	296	(physiological adj2 parameter) same (proximit$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:22
S177	11	S176 AND ((H04W4/90 OR H04W4/80 OR H04W4/02 OR H04W76/14).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:22
S178	236	("20020001367" | "20020027975" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050104745" | "20050151642" | "20060293024" | "20070030146" | "20070033095" | "20070049287" | "20070053308" | "20070058528" | "20070060097" | "20070161383" | "20070164872" | "20070218895" | "20080019268" | "20080063153" | "20080081646" | "20080166990" | "20080194238" | "20080294058" | "20090186596" | "20090257345" | "20090322513" | "20100002846" | "20100156626" | "20100159976" | "20100166153" | "20100202368" | "20100238018" | "20100262668" | "20110009086" | "20110071880" | "20110086607" | "20110103266" | "20110134897" | "20110153368" | "20110201357" | "20110263219" | "20120002792" | "20120028599" | "20120029970" | "20120092161" | "20120144019" | "20120202428" | "20120210325" | "20120218102" | "20120257729" | "20120289243" | "20120295575" | "20120309341" | "20130005295" | "20130030825" | "20130084824" | "20130122932" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23

		"20130138791" | "20130183924" | "20130185368" | "20130203373" | "20130203376" | "20130226369" | "20130237175" | "20130237181" | "20130331055" | "20140051379" | "20140086108" | "20140087680" | "20140113606" | "20140126356" | "20140148120" | "20140155018" | "20140199959" | "20140248848" | "20140324351" | "20150029836" | "20150055453" | "20150081209" | "20150109125" | "20150111524" | "20150137972" | "20150172897" | "20150181401" | "20150289121" | "20150304827" | "20150317392" | "20150350262" | "20150358794" | "20150365319").PN. OR ("20160004224" | "20160026768" | "20160050550" | "20160088455" | "20160219084" | "20160219397" | "20160269535" | "20160307436" | "20160315923" | "20160337831" | "20160345171" | "20160363931" | "20170004427" | "20170140637" | "20170142568" | "20170150335" | "20170161614" | "20170164175" | "20170171735" | "20170180486" | "20170180963" | "20170180966" | "20170195475" | "20170213251" | "20170238129" | "20170238136" | "20170245113" | "20180020091" | "20180039737" | "20180077282" | "20180242133" | "20180249315" | "5013271" | "5022878" | "5379337" | "5479482" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6600812" | "6628933" | "7058385" | "7224773" | "7324801" | "7349706" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7519372" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8068881" | "8102972" | "8126424" | "8150367" | "8165560" | "8165562" | "8185087" |				

		"8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8484352" | "8489062" | "8509729" | "8516122" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8751265" | "8760290" | "8811935" | "8825687" | "8848877").PN. OR ("8866606" | "8868028" | "8880021" | "8890685" | "8948732" | "8971839" | "8984143" | "9008078" | "9019870" | "9071643" | "9077676" | "9078092" | "9094816" | "9167379" | "9244922" | "9258680" | "9277389" | "9351142" | "9369847" | "9402159" | "9503876" | "9544750" | "9591467" | "9635534" | "9659484" | "9693213" | "9736670" | "9756169" | "9805430").PN.				
S179	145	("20020001367" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20060293024" | "20070033095" | "20070053308" | "20070058528" | "20070161383" | "20080019268" | "20080081646" | "20080294058" | "20090257345" | "20090322513" | "20100002846" | "20100159976" | "20100238018" | "20110086607" | "20110134897" | "20110153368" | "20110263219" | "20120002792" | "20120029970" | "20120202428" | "20120210325" | "20120218102" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130138791" | "20130183924" | "20130203373" | "20130203376" | "20130226369" | "20140051379" | "20140113606" | "20140126356" | "20140148120" | "20140155018" | "20140199959" | "20140248848" | "20150055453" | "20150109125" | "20150111524" | "20150137972" | "20150172897" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23

		"20150289121" | "20150350262" | "20150358794" | "20150365319" | "20160026768" | "20160050550" | "20160088455" | "20160219084" | "20160269535" | "20160307436" | "20160363931" | "20170004427" | "20170150335" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560").PN. OR ("8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "8890685" | "9008078" | "9019870" | "9094816" | "9258680" | "9351142" | "9369847" | "9402159" | "9544750" | "9635534" | "9693213").PN.				
S180	112	("20020120698" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20070033095" | "20070053308" | "20080081646" | "20080294058" | "20090322513" | "20100002846" | "20100159976" | "20110086607" | "20110134897" | "20110153368" | "20120002792" | "20120029970" | "20120202428" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130203373" | "20130226369" | "20140051379" | "20140113606" | "20140148120" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23

		"20140199959" | "20150137972" | "20150172897" | "20150350262" | "20150358794" | "20160026768" | "20160050550" | "20160088455" | "20160269535" | "20160307436" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560" | "8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "9008078" | "9019870" | "9258680" | "9369847" | "9544750").PN.				
S181	15	("20010049544" | "20020013518" | "20030146847" | "20040088027" | "20050102167" | "20050115561" | "5912656" | "6198394" | "6269339" | "6551243" | "6589172" | "6697103" | "6733495" | "6735630" | "6954148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23
S182	15	S175 and S176	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:23
S183	11	S182 AND ((G06F19/00 OR G06F19/3418 OR G06F19/3475 OR G06F19/30).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:24

S184	31	("20020013518" | "20030009154" | "20030181815" | "20030216625" | "20040059205" | "20040073093" | "20050094705" | "3943918" | "4321933" | "4747413" | "4958645" | "5153584" | "5365217" | "5458123" | "5748103" | "6072396" | "6102856" | "6238337" | "6416471" | "6529164" | "6579231" | "6589170" | "6856832" | "6870484" | "6894975" | "6897788" | "6970097" | "6982639" | "7109859" | "7218938" | "7993266").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:24
S185	15	("20010049544" | "20020013518" | "20030146847" | "20040088027" | "20050102167" | "20050115561" | "5912656" | "6198394" | "6269339" | "6551243" | "6589172" | "6697103" | "6733495" | "6735630" | "6954148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:28
S186	8	S182 AND ((G06Q50/22 OR G06Q50/24 OR G06Q10/06311 OR G06Q10/1097 OR G06Q30/02 OR G06Q30/0269).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:28
S187	15	("20010049544" | "20020013518" | "20030146847" | "20040088027" | "20050102167" | "20050115561" | "5912656" | "6198394" | "6269339" | "6551243" | "6589172" | "6697103" | "6733495" | "6735630" | "6954148").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:29
S188	4	S182 AND ((H04L67/12 OR H04L29/12783 OR H04L51/046 OR H04L61/35 OR H04L67/14 OR H04L67/30).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:29
S189	3	S182 AND ((H04W4/02 OR H04W36/14 OR H04W48/16 OR H04W76/10 OR H04W84/10 OR H04W84/12 OR H04W88/02 OR H04W88/06).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:29
S190	22	("20010034475" | "20020013518" | "20020084698" | "20020115914" | "20030206116" | "20030220673" | "20040004460" | "20040147818" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:30

		"20050138428" | "6213942" | "6221012" | "6497656" | "6525854" | "6544174" | "6589170" | "6616606" | "6654631" | "6749566" | "6819013" | "6870475" | "7061924" | "7316648").PN.				
S191	2	S182 AND ((H04M1/663 OR H04M1/725 OR H04M1/72527 OR H04M1/7253 OR H04M1/72569 OR H04M2250/10 OR H04M2250/12).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:30
S192	22	("20010034475" | "20020013518" | "20020084698" | "20020115914" | "20030206116" | "20030220673" | "20040004460" | "20040147818" | "20050138428" | "6213942" | "6221012" | "6497656" | "6525854" | "6544174" | "6589170" | "6616606" | "6654631" | "6749566" | "6819013" | "6870475" | "7061924" | "7316648").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:30
S193	0	(proximit$3) and "6"$phone and entity and (physiological adj2 parameter) and (first adj air adj interface) and (second adj air adj interface) and absent and ((unlicens$3 licens$3) near4 (frequenc$3 bandwidth band))"clm."	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:34
S194	0	(absent stop$4) same (entity (base adj station) (access adj point)) same "6"$phone same (first adj2 interfac$3) same (second adj2 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:36
S195	0	(absent stop$4) same (entity (base adj station) (access adj point)) same "6"$phone and (first adj2 interfac$3) same (second adj2 interfac$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:37

S196	3	S176 AND ((H04Q2213/13092 OR H04Q2213/13098 OR H04Q2213/13103 OR H04Q2213/13104 OR H04Q2213/13389 OR H04Q3/00).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:46
S197	7	S176 AND ((H04M1/72536 OR H04M2242/04 OR H04M2242/15 OR H04M3/5116 OR H04M11/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:47
S198	236	("20020001367" | "20020027975" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050104745" | "20050151642" | "20060293024" | "20070030146" | "20070033095" | "20070049287" | "20070053308" | "20070058528" | "20070060097" | "20070161383" | "20070164872" | "20070218895" | "20080019268" | "20080063153" | "20080081646" | "20080166990" | "20080194238" | "20080294058" | "20090186596" | "20090257345" | "20090322513" | "20100002846" | "20100156626" | "20100159976" | "20100166153" | "20100202368" | "20100238018" | "20100262668" | "20110009086" | "20110071880" | "20110086607" | "20110103266" | "20110134897" | "20110153368" | "20110201357" | "20110263219" | "20120002792" | "20120028599" | "20120029970" | "20120092161" | "20120144019" | "20120202428" | "20120210325" | "20120218102" | "20120257729" | "20120289243" | "20120295575" | "20120309341" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130138791" | "20130183924" | "20130185368" | "20130203373" | "20130203376" | "20130226369" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:49

		"20130237175" | "20130237181" | "20130331055" | "20140051379" | "20140086108" | "20140087680" | "20140113606" | "20140126356" | "20140148120" | "20140155018" | "20140199959" | "20140248848" | "20140324351" | "20150029836" | "20150055453" | "20150081209" | "20150109125" | "20150111524" | "20150137972" | "20150172897" | "20150181401" | "20150289121" | "20150304827" | "20150317392" | "20150350262" | "20150358794" | "20150365319").PN. OR ("20160004224" | "20160026768" | "20160050550" | "20160088455" | "20160219084" | "20160219397" | "20160269535" | "20160307436" | "20160315923" | "20160337831" | "20160345171" | "20160363931" | "20170004427" | "20170140637" | "20170142568" | "20170150335" | "20170161614" | "20170164175" | "20170171735" | "20170180486" | "20170180963" | "20170180966" | "20170195475" | "20170213251" | "20170238129" | "20170238136" | "20170245113" | "20180020091" | "20180039737" | "20180077282" | "20180242133" | "20180249315" | "5013271" | "5022878" | "5379337" | "5479482" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6600812" | "6628933" | "7058385" | "7224773" | "7324801" | "7349706" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7519372" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8068881" | "8102972" | "8126424" | "8150367" | "8165560" | "8165562" | "8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" |				

		"8401565" | "8417212" | "8472973" | "8484352" | "8489062" | "8509729" | "8516122" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8751265" | "8760290" | "8811935" | "8825687" | "8848877").PN. OR ("8866606" | "8868028" | "8880021" | "8890685" | "8948732" | "8971839" | "8984143" | "9008078" | "9019870" | "9071643" | "9077676" | "9078092" | "9094816" | "9167379" | "9244922" | "9258680" | "9277389" | "9351142" | "9369847" | "9402159" | "9503876" | "9544750" | "9591467" | "9635534" | "9659484" | "9693213" | "9736670" | "9756169" | "9805430").PN.				
S199	145	("20020001367" | "20020057678" | "20020120698" | "20030069035" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20060293024" | "20070033095" | "20070053308" | "20070058528" | "20070161383" | "20080019268" | "20080081646" | "20080294058" | "20090257345" | "20090322513" | "20100002846" | "20100159976" | "20100238018" | "20110086607" | "20110134897" | "20110153368" | "20110263219" | "20120002792" | "20120029970" | "20120202428" | "20120210325" | "20120218102" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130138791" | "20130183924" | "20130203373" | "20130203376" | "20130226369" | "20140051379" | "20140113606" | "20140126356" | "20140148120" | "20140155018" | "20140199959" | "20140248848" | "20150055453" | "20150109125" | "20150111524" | "20150137972" | "20150172897" | "20150289121" | "20150350262" | "20150358794" | "20150365319" | "20160026768" | "20160050550" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:49

		"20160088455" | "20160219084" | "20160269535" | "20160307436" | "20160363931" | "20170004427" | "20170150335" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560").PN. OR ("8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "8890685" | "9008078" | "9019870" | "9094816" | "9258680" | "9351142" | "9369847" | "9402159" | "9544750" | "9635534" | "9693213").PN.				
S200	112	("20020120698" | "20040203572" | "20040266390" | "20050085215" | "20050151642" | "20070033095" | "20070053308" | "20080081646" | "20080294058" | "20090322513" | "20100002846" | "20100159976" | "20110086607" | "20110134897" | "20110153368" | "20120002792" | "20120029970" | "20120202428" | "20120295575" | "20130005295" | "20130030825" | "20130084824" | "20130122932" | "20130203373" | "20130226369" | "20140051379" | "20140113606" | "20140148120" | "20140199959" | "20150137972" | "20150172897" | "20150350262" | "20150358794" | "20160026768" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:49

		"20160050550" | "20160088455" | "20160269535" | "20160307436" | "5379337" | "5563931" | "5596625" | "5710803" | "5742666" | "6014555" | "6249674" | "6252943" | "6477362" | "6502030" | "6510315" | "6556816" | "6571092" | "6594666" | "6628933" | "7058385" | "7224773" | "7324801" | "7409044" | "7436938" | "7437143" | "7469138" | "7483519" | "7519351" | "7548158" | "7565131" | "7646854" | "7676215" | "7684782" | "7848733" | "7949326" | "8009810" | "8041335" | "8041341" | "8045954" | "8102972" | "8150367" | "8165560" | "8185087" | "8195121" | "8219135" | "8244205" | "8249546" | "8249547" | "8289953" | "8306501" | "8326260" | "8369488" | "8401565" | "8417212" | "8472973" | "8489062" | "8509729" | "8538370" | "8538468" | "8594015" | "8606218" | "8625578" | "8626112" | "8630609" | "8644301" | "8682279" | "8682281" | "8682286" | "8712366" | "8747336" | "8811935" | "8866606" | "8868028" | "9008078" | "9019870" | "9258680" | "9369847" | "9544750").PN.				
S201	3	S176 AND ((H04Q2213/13092 OR H04Q2213/13098 OR H04Q2213/13103 OR H04Q2213/13104 OR H04Q2213/13389 OR H04Q3/00).CPC.)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:50
S202	65	(first adj2 interfac$3) same (second adj3 interfac$3) same (proximit$3 (short adj2 range)) same (entity person animal vehicle (shopping adj card))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:53
S203	9	S175 and S202	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/27 15:53

S204	34	("20010050990" | "20010055396" | "20020049681" | "20020069361" | "20020162003" | "20030028495" | "20030076961" | "20030172122" | "20040109568" | "20050054334" | "20050246533" | "20060015736" | "20060227808" | "20060293035" | "20070022162" | "20070022295" | "20070143596" | "20070220614" | "20080148397" | "20080222425" | "20080288278" | "20090100263" | "20090106557" | "20090113328" | "20100121928" | "20100121931" | "20120143967" | "5872849" | "6009177" | "6202150" | "6389136" | "6463534" | "7082538" | "7243238").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:53
S205	19	("5136646" | "5553145" | "5615269" | "5629982" | "5666420" | "5790665" | "5812670" | "5935246" | "5946396" | "6047242" | "6115699" | "6119108" | "6134326" | "6137884" | "6141750" | "6182142" | "6185683" | "6301660" | "6334118").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S206	13	("4232370" | "4652990" | "5023907" | "5388211" | "5649187" | "5678046" | "5724425" | "5828751" | "5923763" | "5943423" | "5960085" | "5970143" | "5978475").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S207	8	("5659616" | "5671279" | "5712914" | "5796841" | "5878144" | "5884158" | "5903878" | "5987440").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S208	22	("4200770" | "4218582" | "4405829" | "4558176" | "4771461" | "4868877" | "4995082" | "5001752" | "5005200" | "5136643" | "5150411" | "5164988" | "5199070" | "5214700" | "5214702" | "5222140" | "5261002" | "5276737" | "5313521" | "5315658" | "5499295" | "5787172").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55
S209	5	("20030143987" | "20040090937" | "20050288021" | "20060153133" | "6876642").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 15:55

S210	2	15/800885	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:42
S211	6	(first adj2 interfac$3) same (second adj3 interfac$3) same (proximit$3 (short adj2 range)) same (entity person animal vehicle (shopping adj card)) and transaction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:55
S212	12	("20060152369" | "20080084312" | "20090117872" | "20110260839" | "20120242294" | "20130265140" | "20130293190" | "20140025444" | "20140340267" | "20140364772" | "20150119728" | "20150154490").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:56
S213	48	("20030220105" | "20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20060194538" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070243872" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8023580" | "8463238" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:56

S214	43	("20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:56
S215	4	S211 AND ((H04W48/04 OR H04W4/02 OR H04W4/023 OR H04W4/80 OR H04W76/10 OR H04W88/06).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S216	5	S211 AND ((G06Q30/0601 OR G06Q10/00).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S217	4	S211 AND ((H04L67/18).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/12/28 10:57
S218	1	S211 AND ((G06F8/60 OR G06F9/24 OR G06F9/48).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2018/12/28 10:57

			JPO; DERWENT; IBM_TDB			
S219	48	("20030220105" | "20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20060194538" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070243872" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8023580" | "8463238" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:59
S220	43	("20040030601" | "20040170430" | "20060009234" | "20060133633" | "20060145893" | "20060159260" | "20060172700" | "20070167147" | "20070178935" | "20070184837" | "20070197261" | "20070250393" | "20070265984" | "20070285280" | "20080040274" | "20080140868" | "20080146148" | "20080167966" | "20080200166" | "20080227471" | "20080306868" | "20090023474" | "20090113543" | "20090153367" | "20090169070" | "20090213947" | "20100067591" | "20100265845" | "20110314539" | "20120214443" | "20130156218" | "6595929" | "6769607" | "6957107" | "7028897" | "7133659" | "7155199" | "7539241" | "7822644" | "7912629" | "8532069" | "8646060" | "RE39736").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/28 10:59

S223	7	12/264711 and transaction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:22
S224	1	12/264711 and transaction with store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:23
S225	99	transaction near4 pay$3 with store same item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:27
S226	2	(cellular portable mobule pda iphone ipad) same transaction near4 pay$3 with store same item	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:27
S227	1857	(cellular portable mobule pda iphone ipad) same store near8 check$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:29
S228	452	(cellular portable mobule pda iphone ipad) near9 store near8 check$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:29

S230	13	(cellular portable mobule pda iphone ipad) near9 store near8 check$2out same ((short adj range) proximity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:30
S232	914	(cellular portable mobule pda iphone ipad) near15 (transaction pay$3) near8 (item product)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:34
S233	69	(cellular portable mobule pda iphone ipad) near15 (transaction pay$3) near8 (item product) near16 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 14:37
S234	3	"08249935"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:01
S235	602	(cellular portable mobule pda iphone ipad) same ((transaction pay$3 check$3 adj out)) same (item product) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:04
S236	162	(cellular portable mobule pda iphone ipad) same ((transaction pay$3 check$3 adj out)) near9 (item product) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:05

S238	29	"10219199"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/07 15:32
S240	1	"08249935"	USPAT	OR	OFF	2019/05/08 15:18
S241	52	(cellular portable mobule pda iphone ipad) near15 ((transaction pay$3 check$3 adj out)) near9 (item product) near8 store	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/08 16:06
S242	10	S241 AND ((H04W12/08 OR H04W12/12 OR H04W4/02 OR H04W12/0013 OR H04W12/0023 OR H04W12/02 OR H04W4/50 OR H04W4/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/05/08 16:06
S243	96	(financial adj transaction) same authoriz$6 same (short-range (short adj range))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/11 12:31
S244	66	S243 AND ((G06Q20/32 OR G06Q20/40 OR G06Q20/202 OR G06Q20/3278 OR G06Q20/327 OR G06Q20/322 OR G06Q20/325 OR G06Q20/20 OR G06Q20/3226 OR G06Q20/38215 OR G06Q20/401 OR G06Q20/3227 OR G06Q20/4012 OR G06Q20/40145 OR G06Q20/04 OR G06Q20/3674 OR G06Q20/3821 OR G06Q20/385 OR G06Q20/42 OR G06Q20/3223 OR G06Q40/02 OR G06Q20/00 OR G06Q20/26 OR G06Q30/00 OR G06Q20/045 OR G06Q20/10 OR G06Q20/108 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/11 12:31

		G06Q20/3829 OR G06Q20/4016 OR G06Q20/352 OR G06Q20/4014 OR G06Q20/02 OR G06Q20/4018 OR G06Q2220/00 OR G06Q30/06 OR G06Q20/105 OR G06Q20/1085 OR G06Q20/3255 OR G06Q20/3274 OR G06Q20/347 OR G06Q20/353 OR G06Q20/363 OR G06Q20/405 OR G06Q40/00 OR G06Q40/12 OR G06Q20/027 OR G06Q20/0453 OR G06Q20/16 OR G06Q20/18 OR G06Q20/223 OR G06Q20/24 OR G06Q20/3224 OR G06Q20/3229 OR G06Q20/3276 OR G06Q20/341 OR G06Q20/35785 OR G06Q20/36 OR G06Q20/3672 OR G06Q20/3825 OR G06Q20/403 OR G06Q20/425 OR G06Q30/02 OR G06Q30/04).CPC.)				
S245	51	(financial adj transaction) same authoriz$6 same (short-range (short adj range)) same (phone portable cellular pda iphone ipad)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/11 12:33
S246	19	S245 AND ((H04W12/06 OR H04W12/02 OR H04W12/00522 OR H04W12/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/12/11 12:33
S247	1	16/012513	US-PGPUB; USPAT	OR	OFF	2019/12/12 15:01

4/15/2020 5:38:31 PM
C:\Users\mvu1\Documents\EAST\Workspaces\16251834_Transaction.wsp

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US5

U.S.PATENTS

Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8091780	B2	2012-01-10	Todd et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS

Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS

Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T.V./

IPR2025-01235
Apple EX1002 Page 347

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US5

	1	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/012,513, 12/19/2019, pp. 1-14	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/MICHAEL T VU/	Date Considered	04/15/2020

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16251834
Filing Date	2019-01-18
First Named Inventor	Peter D. Karabinis
Art Unit	2641
Examiner Name	Michael T VU
Attorney Docket Number	1348.002US5

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Aaron W. Pederson/	Date (YYYY-MM-DD)	2020-03-16
Name/Print	Aaron Pederson	Registration Number	58607

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

IPR2025-01235
Apple EX1002 Page 349

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 record s.

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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T./

IPR2025-01235
Apple EX1002 Page 350

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

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 including the Patent, advance orders and notification of maintenance fees 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.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

138517 7590 04/22/2020

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

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 EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/251,834	01/18/2019	Peter D. Karabinis	1348.002US5	1391

TITLE OF INVENTION: MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	07/22/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
VU, MICHAEL T	2641	455-456300

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/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 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 Carlson, Caspers, Vandenburgh, & Lindquist, P.A.
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: Telcom Ventures, LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Miami, Florida

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) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via EFS-Web ❑ 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. 502880

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

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.
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.
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 /Aaron W. Pederson/ Date April 27, 2020

Typed or printed name Aaron W. Pederson Registration No. 58,607

IPR2025-01235
Apple EX1002 Page 351

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
16/251,834	04/27/2020 06:10:41 PM ET	1348.002US5

Title of Invention

MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1391	FILED BY	Sage Kruse
PATENT CENTER #	60013147	FILING DATE	01/18/2019
CUSTOMER #	138517	FIRST NAMED INVENTOR	Peter Karabinis
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Aaron Pederson

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Issue Fee Transmittal1348002US5.pdf	1	Issue Fee Payment (PTO-85B)	1576 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Issue Fee Transmittal1348002US5.pdf	57266645D21CC1DE110F7C853595300C6FC8378D9CDDC52D1 513EB37BDA5F4F672D174B3E743091941405C07EDEB59360D D7207295B0F5E7A3E439BD2A8ADCD3

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.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
16/251,834	04/27/2020 06:10:41 PM ET	1348.002US5

Title of Invention

MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1391	FILED BY	Sage Kruse
PATENT CENTER #	60013147	AUTHORIZED BY	Aaron Pederson
CUSTOMER #	138517	FILING DATE	01/18/2019
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Peter Karabinis

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 502880	E20204Qf11576203	Sage Kruse

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
502880	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	500.00	1	500.00
			TOTAL AMOUNT:	$500.00

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/251,834	06/02/2020	10674432	1348.002US5	1391

138517 7590 05/13/2020

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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 0 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 Application Information Retrieval (PAIR) WEB site (http://pair.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 Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Peter D. Karabinis, Cary, NC;
Telcom Ventures, LLC, Miami, FL;
Rajendra Singh, Indian Creek Village, FL;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.