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Presented for filing is a new continuation patent application of:

Inventor(s): CHRISTOPHER P. RICCI

Title: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Enclosed are the following papers, including those required to receive a filing date under 37 CFR 1.53(b):

	Pages
Specification	102
Claims	3
Abstract	1
Declaration	1
Drawing(s)	39

Enclosures:

— Application Data Sheet, 23 pages.
— Power of Attorney, 2 pages.

The applicant claims small entity status under 37 CFR 1.27.

Basic Filing Fee			$80
Search Fee			$350
Examination Fee			$400
Total Claims 20	over 20	**0 x $50**	$0
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Fee for Multiple Dependent claims			$0
Application size fee for each 50 pages over 100 Total Sheets: 145 x .75 - 100/50 = 1 x			$210

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Respectfully submitted,

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Enclosures

SNP/khw
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ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a continuation of and claims priority to U.S. Patent Application Serial Nos.: (1) 14/252,863, filed on April 15, 2014, of the same title; (2) 14/252,865, filed on April 15, 2014, entitled "User Profile Exchange via Vehicle Supported Communications Protocol"; (3) 14/252,868, filed on April 15, 2014, entitled "Transfer of User Profile Data via Vehicle Agency Control"; (4) 15/099,413, filed on April 14, 2016, entitled "Guest Vehicle User Reporting," which is a continuation of U.S. Patent Application Serial No. 14/252,871, filed on April 15, 2014, of the same title; and (5) 14/831,696, filed on August 20, 2015, entitled "Parental Control over Vehicle Features and Child Alert System," which is a continuation of U.S. Patent Application Serial No. 14/252,876, filed on April 15, 2014, of the same title. Each of the foregoing applications claims the benefits of and priority, under 35 U.S.C. § 119(e), to U.S. Provisional Application Serial Nos. 61/811,981, filed on April 15, 2013, entitled "Functional Specification for a Next Generation Automobile"; 61/865,954, filed on August 14, 2013, entitled "Gesture Control of Vehicle Features"; 61/870,698, filed on August 27, 2013, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; 61/891,217, filed on October 15, 2013, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; 61/904,205, filed on November 14, 2013, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; 61/924,572, filed on January 7, 2014, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; and 61/926,749, filed on January 13, 2014, entitled "Method and System for Providing Infotainment in a Vehicle." The entire disclosures of the applications listed above are hereby incorporated by reference, in their entirety, for all that they teach and for all purposes.

[0002] This application is also related to U.S. Patent Application Nos. 13/420,236, filed on March 14, 2012, entitled, "Configurable Vehicle Console"; 13/420,240, filed on March 14, 2012, entitled "Removable, Configurable Vehicle Console"; 13/462,593, filed on May 2, 2012, entitled "Configurable Dash Display"; 13/462,596, filed on May 2, 2012, entitled "Configurable Heads-Up Dash Display"; 13/679,459, filed on November 16, 2012, entitled "Vehicle Comprising Multi-Operating System" (Attorney Docket No. 6583-228); 13/679,234, filed on November 16, 2012, entitled "Gesture Recognition for On-Board Display" (Attorney Docket No. 6583-229); 13/679,412, filed on November 16, 2012, entitled "Vehicle Application Store for Console" (Attorney Docket No. 6583-230); 13/679,857, filed on November 16, 2012, entitled "Sharing Applications/Media Between Car and Phone (Hydroid)" (Attorney Docket No. 6583-231); 13/679,878, filed on November 16, 2012, entitled "In-Cloud Connection for Car Multimedia" (Attorney Docket No. 6583-232); 13/679,875, filed on November 16, 2012, entitled "Music Streaming" (Attorney Docket No. 6583-233); 13/679,676, filed on November 16, 2012, entitled "Control of Device Features Based on Vehicle State" (Attorney Docket No. 6583-234); 13/678,673, filed on November 16, 2012, entitled "Insurance Tracking" (Attorney Docket No. 6583-235); 13/678,691, filed on November 16, 2012, entitled "Law Breaking/Behavior Sensor" (Attorney

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Docket No. 6583-236); 13/678,699, filed on November 16, 2012, entitled "Etiquette Suggestion" (Attorney Docket No. 6583-237); 13/678,710, filed on November 16, 2012, entitled "Parking Space Finder Based on Parking Meter Data" (Attorney Docket No. 6583-238); 13/678,722, filed on November 16, 2012, entitled "Parking Meter Expired Alert" (Attorney Docket No. 6583-239); 13/678,726, filed on November 16, 2012, entitled "Object Sensing (Pedestrian Avoidance/Accident Avoidance)" (Attorney Docket No. 6583-240); 13/678,735, filed on November 16, 2012, entitled "Proximity Warning Relative to Other Cars" (Attorney Docket No. 6583-241); 13/678,745, filed on November 16, 2012, entitled "Street Side Sensors" (Attorney Docket No. 6583-242); 13/678,753, filed on November 16, 2012, entitled "Car Location" (Attorney Docket No. 6583-243); 13/679,441, filed on November 16, 2012, entitled "Universal Bus in the Car" (Attorney Docket No. 6583-244); 13/679,864, filed on November 16, 2012, entitled "Mobile Hot Spot/Router/Application Share Site or Network" (Attorney Docket No. 6583-245); 13/679,815, filed on November 16, 2012, entitled "Universal Console Chassis for the Car" (Attorney Docket No. 6583-246); 13/679,476, filed on November 16, 2012, entitled "Vehicle Middleware" (Attorney Docket No. 6583-247); 13/679,306, filed on November 16, 2012, entitled "Method and System for Vehicle Data Collection Regarding Traffic" (Attorney Docket No. 6583-248); 13/679,369, filed on November 16, 2012, entitled "Method and System for Vehicle Data Collection" (Attorney Docket No. 6583-249); 13/679,680, filed on November 16, 2012, entitled "Communications Based on Vehicle Diagnostics and Indications" (Attorney Docket No. 6583-250); 13/679,443, filed on November 16, 2012, entitled "Method and System for Maintaining and Reporting Vehicle Occupant Information" (Attorney Docket No. 6583-251); 13/678,762, filed on November 16, 2012, entitled "Behavioral Tracking and Vehicle Applications" (Attorney Docket No. 6583-252); 13/679,292, filed November 16, 2012, entitled "Branding of Electrically Propelled Vehicles Via the Generation of Specific Operating Output" (Attorney Docket No. 6583-258); 13/679,400, filed November 16, 2012, entitled "Vehicle Climate Control" (Attorney Docket No. 6583-313); 13/840,240, filed on March 15, 2013, entitled "Improvements to Controller Area Network Bus" (Attorney Docket No. 6583-314); 13/678,773, filed on November 16, 2012, entitled "Location Information Exchange Between Vehicle and Device" (Attorney Docket No. 6583-315); 13/679,887, filed on November 16, 2012, entitled "In Car Communication Between Devices" (Attorney Docket No. 6583-316); 13/679,842, filed on November 16, 2012, entitled "Configurable Hardware Unit for Car Systems" (Attorney Docket No. 6583-317); 13/679,204, filed on November 16, 2012, entitled "Feature Recognition for Configuring a Vehicle Console and Associated Devices" (Attorney Docket No. 6583-318); 13/679,350, filed on November 16, 2012, entitled "Configurable Vehicle Console" (Attorney Docket No. 6583-412); 13/679,358, filed on November 16, 2012, entitled "Configurable Dash Display" (Attorney Docket No. 6583-413); 13/679,363, filed on November 16, 2012, entitled "Configurable Heads-Up Dash Display" (Attorney Docket No. 6583-414); and 13/679,368, filed on November 16, 2012, entitled "Removable, Configurable Vehicle Console" (Attorney Docket No. 6583-415). The entire disclosures of the applications listed above are hereby incorporated by reference, in their entirety, for all that they teach and for all purposes.

[0003] This application is also related to PCT Patent Application Nos. PCT/US14/_____, filed on April 15, 2014, entitled, "Building Profiles Associated with Vehicle Users" (Attorney Docket No. 6583-543-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "Access and Portability of User Profiles Stored as Templates" (Attorney Docket No. 6583-544-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "User Interface and Virtual Personality Presentation Based on User Profile" (Attorney Docket No. 6583-547-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "Creating Targeted Advertising Profiles Based on User Behavior" (Attorney Docket No. 6583-549-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "Behavior Modification via Altered Map Routes Based on User Profile Information" (Attorney Docket No. 6583-550-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "Vehicle Location-Based Home Automation Triggers" (Attorney Docket No. 6583-556-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "Vehicle Initiated Communications with Third Parties via Virtual Personalities" (Attorney Docket No. 6583-559-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "Vehicle Intruder Alert Detection and Indication" (Attorney Docket No. 6583-562-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "Driver Facts Behavior Information Storage System" (Attorney Docket No. 6583-565-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "Synchronization Between Vehicle and User Device Calendar" (Attorney Docket No. 6583-567-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "User Gesture Control of Vehicle Features" (Attorney Docket No. 6583-569-PCT); PCT/US14/_____, filed on April 15, 2014, entitled "Central Network for the Automated Control of Vehicular Traffic" (Attorney Docket No. 6583-574-PCT); and PCT/US14/_____, filed on April 15, 2014, entitled "Vehicle-Based Multimode Discovery" (Attorney Docket No. 6583-585-PCT). The entire disclosures of the applications listed above are hereby incorporated by reference, in their entirety, for all that they teach and for all purposes.

BACKGROUND

[0004] Whether using private, commercial, or public transport, the movement of people and/or cargo has become a major industry. In today's interconnected world, daily travel is essential to engaging in commerce. Commuting to and from work can account for a significant portion of a traveler's day. As a result, vehicle manufacturers have begun to focus on making this commute, and other journeys, more enjoyable.

[0005] Currently, vehicle manufacturers attempt to entice travelers to use a specific conveyance based on any number of features. Most of these features focus on vehicle safety or efficiency. From the addition of safety-restraints, air-bags, and warning systems to more efficient engines, motors, and designs, the vehicle industry has worked to appease the supposed needs of the traveler. Recently, however, vehicle manufactures have shifted their focus to user and passenger comfort as a primary concern. Making an individual more comfortable while traveling instills confidence and pleasure in using a given vehicle, increasing an individual's preference for a given manufacturer and/or vehicle type.

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[0006] One way to instill comfort in a vehicle is to create an environment within the vehicle similar to that of an individual's home. Integrating features in a vehicle that are associated with comfort found in an individual's home can ease a traveler's transition from home to vehicle. Several manufacturers have added comfort features in vehicles such as the following: leather seats, adaptive and/or personal climate control systems, music and media players, ergonomic controls, and, in some cases, Internet connectivity. However, because these manufacturers have added features to a conveyance, they have built comfort around a vehicle and failed to build a vehicle around comfort.

SUMMARY

[0007] There is a need for a vehicle ecosystem, which can integrate both physical and mental comforts, while seamlessly communicating with current electronic devices to result in a totally intuitive and immersive user experience. These and other needs are addressed by the various aspects, embodiments, and/or configurations of the present disclosure. Also, while the disclosure is presented in terms of exemplary and optional embodiments, it should be appreciated that individual aspects of the disclosure can be separately claimed.

[0008] Exemplary aspects are directed toward:

A system to access one or more user profiles that govern one or more vehicle functions comprising:

means for verifying, using a processor, one or more of biometric information, gesture recognition, facial recognition and device identification information, that a user has authority to access the one or more user profiles, the one or more profiles being stored in one or more of a vehicle, a cloud and a communications device; and

means for allowing the user to make one or more edits to the one or more user profiles.

[0009] A system to associate a user profile with a vehicle comprising:

an import/export module adapted to receive the user profile from one or more of a communications device, a cloud, another vehicle and a computing device;

a profile subsystem module adapted to integrate the user profile into the vehicle; and

a position detection module adapted to determine a position of the user in the vehicle and one or more of enable and disable certain settings or preferences in the profile based on the determined position.

Any of the above aspects, further comprising utilizing one or more of NFC, RFID, Bluetooth®, wireless and IR communications to transfer the user profile.

Any of the above aspects, further comprising a dock adapted to pair the communications device with the vehicle.

Any of the above aspects, wherein feedback is provided to the user via a display of which settings or preferences were enabled or disabled.

Any of the above aspects, wherein the determined position is driver, front seat passenger, back seat passenger or front seat passenger/alternate driver.

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Any of the above aspects, wherein a communication session is established between the communications device and the vehicle.

Any of the above aspects, wherein the user profile is received from another vehicle.

Any of the above aspects, wherein the user profile is retrieved from a rental car agency profile repository.

Any of the above aspects, wherein the user profile is exported to one or more of the communications device, the cloud, another vehicle and the computing device.

Any of the above aspects, wherein the user profile on the communications device is updated upon the user leaving the vehicle.

Any of the above aspects, wherein an updated profile is received at the communications device, and both the updated profile and the user profile are stored.

Any of the above aspects, wherein a user can select from multiple profiles for use in the vehicle.

[0010] A method to associate a user profile with a vehicle comprising:

receiving the user profile from one or more of a communications device, a cloud, another vehicle and a computing device;

integrating the user profile into the vehicle; and

determining a position of the user in the vehicle and one or more of enable and disable certain settings or preferences in the profile based on the determined position.

Any of the above aspects, further comprising utilizing one or more of NFC, RFID, Bluetooth®, wireless and IR communications to transfer the user profile.

Any of the above aspects, further comprising docking the communications device with the vehicle.

Any of the above aspects, further comprising providing feedback to the user via a display of which settings or preferences were enabled or disabled.

Any of the above aspects, wherein the determined position is driver, front seat passenger, back seat passenger or front seat passenger/alternate driver.

Any of the above aspects, further comprising establishing a communication session between the communications device and the vehicle.

Any of the above aspects, wherein the user profile is received from another vehicle.

Any of the above aspects, wherein the user profile is retrieved from a rental car agency profile repository.

Any of the above aspects, wherein the user profile is exported to one or more of the communications device, the cloud, another vehicle and the computing device.

Any of the above aspects, wherein the user profile on the communications device is updated upon the user leaving the vehicle.

Any of the above aspects, wherein an updated profile is received at the communications device, and both the updated profile and the user profile are stored.

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Any of the above aspects, wherein a user can select from multiple profiles for use in the vehicle.

[0011] A non-transitory computer readable information storage media having stored thereon instructions, that when executed by a processor, cause to be performed a method to associate a user profile with a vehicle comprising:

receiving the user profile from one or more of a communications device, a cloud, another vehicle and a computing device;

integrating the user profile into the vehicle; and

determining a position of the user in the vehicle and one or more of enable and disable certain settings or preferences in the profile based on the determined position.

Any of the above aspects, further comprising utilizing one or more of NFC, RFID, Bluetooth®, wireless and IR communications to transfer the user profile.

[0012] A system to associate a user profile with a vehicle comprising:

means for receiving the user profile from one or more of a communications device, a cloud, another vehicle and a computing device;

means for integrating the user profile into the vehicle; and

means for determining a position of the user in the vehicle and one or more of enable and disable certain settings or preferences in the profile based on the determined position.

[0013] A system to associate a user profile with a vehicle comprising:

a system adapted to receive a reservation for a vehicle rental, the system querying a user if they would like to associate their user profile with a rental vehicle; and

when the user would like to associate their user profile with the rental vehicle, locating and uploading their user profile and associating their user profile with the reservation, and

when the user does not wish to associate their user profile with the rental vehicle, querying the user if they would like to create a new profile or rent the vehicle without a profile.

Any of the above aspects, wherein the system further queries the user to associate a position in the vehicle with their user profile.

Any of the above aspects, wherein the system further queries the user to associate a position in the vehicle with one or more additional user profiles.

Any of the above aspects, further comprising an advertising module adapted to send one or more ads to one or more of the rental vehicle and a communications device associated with the user.

Any of the above aspects, wherein the user profile is initially stored on a communications device, a tablet, a smartphone and in a cloud.

Any of the above aspects, wherein a third party is capable of associating the user profile with the reservation.

Any of the above aspects, wherein, after completion of the reservation, the user is provided the option of associating their profile back with their communication device.

Any of the above aspects, wherein the communications device is used as a key for the vehicle.

Any of the above aspects, wherein target advertising is provided to the vehicle at least based on the profile.

Any of the above aspects, wherein the user's profile is locatable by the system through the use of a telephone number.

Any of the above aspects, wherein the user's profile is automatically associated with a specific vehicle upon completion of a rental contract.

[0014] A method to associate a user profile with a vehicle comprising:

receiving a reservation for a vehicle rental, the system querying a user if they would like to associate their user profile with a rental vehicle; and

when the user would like to associate their user profile with the rental vehicle, locating and uploading their user profile and associating their user profile with the reservation, and

when the user does not wish to associate their user profile with the rental vehicle, querying the user if they would like to create a new profile or rent the vehicle without a profile.

Any of the above aspects, further comprising querying the user to associate a position in the vehicle with their user profile.

Any of the above aspects, , further comprising querying the user to associate a position in the vehicle with one or more additional user profiles.

Any of the above aspects, further comprising sending one or more ads to one or more of the rental vehicle and a communications device associated with the user.

Any of the above aspects, wherein the user profile is initially stored on a communications device, a tablet, a smartphone and in a cloud.

Any of the above aspects, wherein a third party is capable of associating the user profile with the reservation.

Any of the above aspects, wherein, after completion of the reservation, the user is provided the option of associating their profile back with their communication device.

Any of the above aspects, wherein the communications device is used as a key for the vehicle.

Any of the above aspects, wherein target advertising is provided to the vehicle at least based on the profile.

Any of the above aspects, wherein the user's profile is locatable by the system through the use of a telephone number.

Any of the above aspects, wherein the user's profile is automatically associated with a specific vehicle upon completion of a rental contract.

[0015] A non-transitory computer readable information storage media having stored thereon instructions, that when executed by a processor, cause to be performed a method to associate a user profile with a vehicle comprising:

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receiving a reservation for a vehicle rental, the system querying a user if they would like to associate their user profile with a rental vehicle; and

when the user would like to associate their user profile with the rental vehicle, locating and uploading their user profile and associating their user profile with the reservation, and

when the user does not wish to associate their user profile with the rental vehicle, querying the user if they would like to create a new profile or rent the vehicle without a profile.

[0016] A system for associating a user profile with a vehicle comprising:

means for receiving a reservation for a vehicle rental; and

means for querying a user if they would like to associate their user profile with a rental vehicle; and

when the user would like to associate their user profile with the rental vehicle, locating and uploading their user profile and associating their user profile with the reservation, and

when the user does not wish to associate their user profile with the rental vehicle, querying the user if they would like to create a new profile or rent the vehicle without a profile.

[0017] A system that reports one or more vehicle conditions comprising:

a vehicle reporting module adapted to receive one or more of a request, a smart calendar item, a trigger and context information, and determine what one or more types of information should be monitored;

a communication system adapted to forward one or more of the one or more types of information to one or more destinations.

Any of the above aspects, wherein the one or more destinations include a smartphone, a communications device and a remote access device.

Any of the above aspects, wherein a smart calendar module initiates one or more triggers, the initiation based on one or more calendared events.

Any of the above aspects, wherein a context module determines context of the vehicle and based on one or more thresholds, initiates the trigger.

Any of the above aspects, wherein a context module cooperates with a breathalyzer and determines when monitoring should commence.

Any of the above aspects, wherein one or more of images, video, audio, GPS information, location information, passenger information and time at location information are monitored.

Any of the above aspects, wherein a parental control module initiates the request to begin monitoring.

Any of the above aspects, wherein one or more of an expression, facial ID and gestures are the trigger.

Any of the above aspects, wherein a remote access device can establish one or more of audio and video communication with the vehicle, and can also control one or more vehicle functions.

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Any of the above aspects, wherein the remote access device is a communications device, a smartphone, a tablet computer and a computer.

[0018] A method to report one or more vehicle conditions comprising:

receiving one or more of a request, a smart calendar item, a trigger and context information, and determine what one or more types of information should be monitored;

forwarding one or more of the one or more types of information to one or more destinations.

Any of the above aspects, wherein the one or more destinations include a smartphone, a communications device and a remote access device.

Any of the above aspects, wherein a smart calendar module initiates one or more triggers, the initiation based on one or more calendared events.

Any of the above aspects, wherein a context module determines context of the vehicle and based on one or more thresholds, initiates the trigger.

Any of the above aspects, wherein a context module cooperates with a breathalyzer and determines when monitoring should commence.

Any of the above aspects, wherein one or more of images, video, audio, GPS information, location information, passenger information and time at location information are monitored.

Any of the above aspects, wherein a parental control module initiates the request to begin monitoring.

Any of the above aspects, wherein one or more of an expression, facial ID and gestures are the trigger.

Any of the above aspects, wherein a remote access device can establish one or more of audio and video communication with the vehicle, and can also control one or more vehicle functions.

Any of the above aspects, wherein the remote access device is a communications device, a smartphone, a tablet computer and a computer.

[0019] A non-transitory computer readable information storage media having stored thereon instructions, that when executed by a processor, cause to be performed a method to report one or more vehicle conditions comprising:

receiving one or more of a request, a smart calendar item, a trigger and context information, and determine what one or more types of information should be monitored;

forwarding one or more of the one or more types of information to one or more destinations.

[0020] A system to report one or more vehicle conditions comprising:

means for receiving one or more of a request, a smart calendar item, a trigger and context information, and determine what one or more types of information should be monitored;

means for forwarding one or more of the one or more types of information to one or more destinations.

[0021] A parental control system for a vehicle comprising:

a parental control module adapted to limit one or more vehicle functions based on one or more rules; and

a profile module adapted to interact with the parental control module to limit the one or more vehicle functions based on whether the profile is associated with a driver or a passenger.

Any of the above aspects, wherein vehicle reporting is activated.

Any of the above aspects, wherein context sensing is enabled.

Any of the above aspects, wherein communications are established with one or more remote devices.

Any of the above aspects, wherein one or more rules based functions are enabled or disabled, wherein the one or more rules based functions include at least one vehicle operational function.

Any of the above aspects, wherein real-time communications are established between the vehicle and a communications device or a computing device.

Any of the above aspects, wherein global context awareness is enabled and communications established with one or more smart systems.

Any of the above aspects, wherein the parental control module is activated based on one or more of a facial recognition and a profile associated with the vehicle.

Any of the above aspects, wherein real-time communications audio or video communications are established between the vehicle and a communications device or a computing device.

Any of the above aspects, wherein the one or more vehicle functions are limited based on a determined context of one or more of the vehicle and one or more passengers.

Any of the above aspects, wherein information from a local or remote breathalyzer is used as input to determine whether to limit the one or more vehicle functions.

[0022] A parental control method for a vehicle comprising:

limiting one or more vehicle functions based on one or more rules; and

interacting with the parental control module to limit the one or more vehicle functions based on whether the profile is associated with a driver or a passenger.

Any of the above aspects, wherein vehicle reporting is activated.

Any of the above aspects, wherein context sensing is enabled.

Any of the above aspects, wherein communications are established with one or more remote devices.

Any of the above aspects, wherein one or more rules based functions are enabled or disabled, wherein the one or more rules based functions include at least one vehicle operational function.

Any of the above aspects, wherein real-time communications are established between the vehicle and a communications device or a computing device.

Any of the above aspects, wherein global context awareness is enabled and communications established with one or more smart systems.

Any of the above aspects, wherein the parental control module is activated based on one or more of a facial recognition and a profile associated with the vehicle.

Any of the above aspects, wherein real-time communications audio or video communications are established between the vehicle and a communications device or a computing device.

Any of the above aspects, wherein the one or more vehicle functions are limited based on a determined context of one or more of the vehicle and one or more passengers.

Any of the above aspects, wherein information from a local or remote breathalyzer is used as input to determine whether to limit the one or more vehicle functions.

[0023] A parental control system for a vehicle comprising:

means for limiting one or more vehicle functions based on one or more rules; and

means for interacting with the parental control module to limit the one or more vehicle functions based on whether the profile is associated with a driver or a passenger.

[0024] A non-transitory computer readable information storage media having stored thereon instructions, that when executed by a processor, cause to be performed a parental control method for a vehicle comprising:

limiting one or more vehicle functions based on one or more rules; and

interacting with the parental control module to limit the one or more vehicle functions based on whether the profile is associated with a driver or a passenger.

[0025] The present disclosure can provide a number of advantages depending on the particular aspect, embodiment, and/or configuration. The above and other advantages will be apparent from the disclosure.

[0026] The phrases "at least one," "one or more," and "and/or" are open-ended expressions that are both conjunctive and disjunctive in operation. For example, each of the expressions "at least one of A, B and C," "at least one of A, B, or C," "one or more of A, B, and C," "one or more of A, B, or C" and "A, B, and/or C" means A alone, B alone, C alone, A and B together, A and C together, B and C together, or A, B and C together.

[0027] The term "a" or "an" entity refers to one or more of that entity. As such, the terms "a" (or "an"), "one or more," and "at least one" can be used interchangeably herein. It is also to be noted that the terms "comprising," "including," and "having" can be used interchangeably.

[0028] The term "automatic" and variations thereof, as used herein, refer to any process or operation done without material human input when the process or operation is performed. However, a process or operation can be automatic, even though performance of the process or operation uses material or immaterial human input, if the input is received before the performance of the process or operation. Human input is deemed to be material if such input influences how the process or operation will be performed. Human input that consents to the performance of the process or operation is not deemed to be "material."

[0029] The term "automotive navigation system" can refer to a satellite navigation system designed for use in vehicles. It typically uses a GPS navigation device to acquire position data to locate the user on a road in the unit's map database. Using the road database, the unit can give directions to other locations along roads also in its database. Dead reckoning using distance data from sensors attached to the drivetrain, a gyroscope and an accelerometer can be used for greater reliability, as GPS signal loss and/or multipath can occur due to urban canyons or tunnels.

[0030] The term "bus" and variations thereof, as used herein, can refer to a subsystem that transfers information and/or data between various components. A bus generally refers to the collection communication hardware interface, interconnects, bus architecture, standard, and/or protocol defining the communication scheme for a communication system and/or communication network. A bus may also refer to a part of a communication hardware that interfaces the communication hardware with the interconnects that connect to other components of the corresponding communication network. The bus may be for a wired network, such as a physical bus, or wireless network, such as part of an antenna or hardware that couples the communication hardware with the antenna. A bus architecture supports a defined format in which information and/or data is arranged when sent and received through a communication network. A protocol may define the format and rules of communication of a bus architecture.

[0031] The terms "communication device," "smartphone," and "mobile device," and variations thereof, as used herein, can be used interchangeably and may include any type of device capable of communicating with one or more of another device and/or across a communications network, via a communications protocol, and the like. Exemplary communication devices may include but are not limited to smartphones, handheld computers, laptops, netbooks, notebook computers, subnotebooks, tablet computers, scanners, portable gaming devices, phones, pagers, GPS modules, portable music players, and other Internet-enabled and/or network-connected devices.

[0032] A "communication modality" can refer to any protocol- or standard defined or specific communication session or interaction, such as Voice-Over-Internet-Protocol ("VoIP), cellular communications (e.g., IS-95, 1G, 2G, 3G, 3.5G, 4G, 4G/IMT-Advanced standards, 3GPP, WIMAX™, GSM, CDMA, CDMA2000, EDGE, 1xEVDO, iDEN, GPRS, HSPDA, TDMA, UMA, UMTS, ITU-R, and 5G), Bluetooth™, text or instant messaging (e.g., AIM, Blauk, eBuddy, Gadu-Gadu, IBM Lotus Sametime, ICQ, iMessage, IMVU, Lync, MXit, Paltalk, Skype, Tencent QQ, Windows Live Messenger™ or MSN Messenger™, Wireclub, Xfire, and Yahoo! Messenger™), email, Twitter (e.g., tweeting), Digital Service Protocol (DSP), and the like.

[0033] The term "communication system" or "communication network" and variations thereof, as used herein, can refer to a collection of communication components capable of one or more of transmission, relay, interconnect, control, or otherwise manipulate information or data from at least one transmitter to at least one receiver. As such, the communication may include a range of systems supporting point-to-point or broadcasting of the information or data. A communication system may refer to the collection individual communication hardware as well as the interconnects associated with and connecting the individual communication hardware. Communication hardware may refer to dedicated communication hardware or may refer a processor coupled with a communication means (i.e., an antenna) and running software capable of using the communication means to send and/or receive a signal within the communication system. Interconnect refers some type of wired or wireless communication link that connects various components, such as communication hardware, within a communication

system. A communication network may refer to a specific setup of a communication system with the collection of individual communication hardware and interconnects having some definable network topography. A communication network may include wired and/or wireless network having a pre-set to an ad hoc network structure.

[0034] The term "computer-readable medium," as used herein refers to any tangible storage and/or transmission medium that participates in providing instructions to a processor for execution. Such a medium may take many forms, including but not limited to, non-volatile media, volatile media, and transmission media. Non-volatile media includes, for example, non-volatile random access memory (NVRAM), or magnetic or optical disks. Volatile media includes dynamic memory, such as main memory. Common forms of computer-readable media include, for example, a floppy disk, a flexible disk, hard disk, magnetic tape, or any other magnetic medium, magneto-optical medium, a compact disc read only memory (CD-ROM), any other optical medium, punch cards, paper tape, any other physical medium with patterns of holes, a random access memory (RAM), a programmable read only memory (PROM), and erasable programmable read only memory EPROM, a FLASH-EPROM, a solid state medium like a memory card, any other memory chip or cartridge, a carrier wave as described hereinafter, or any other medium from which a computer can read. A digital file attachment to an e-mail or other self-contained information archive or set of archives is considered a distribution medium equivalent to a tangible storage medium. When the computer-readable media is configured as a database, it is to be understood that the database may be any type of database, such as relational, hierarchical, object-oriented, and/or the like. Accordingly, the disclosure is considered to include a tangible storage medium or distribution medium and prior art-recognized equivalents and successor media, in which the software implementations of the present disclosure are stored. It should be noted that any computer readable medium that is not a signal transmission may be considered non-transitory.

[0035] The terms dash and dashboard and variations thereof, as used herein, may be used interchangeably and can be any panel and/or area of a vehicle disposed adjacent to an operator, user, and/or passenger. Dashboards may include, but are not limited to, one or more control panel(s), instrument housing(s), head unit(s), indicator(s), gauge(s), meter(s), light(s), audio equipment, computer(s), screen(s), display(s), HUD unit(s), and graphical user interface(s).

[0036] The term "module" as used herein refers to any known or later developed hardware, software, firmware, artificial intelligence, fuzzy logic, or combination of hardware and software that is capable of performing the functionality associated with that element.

[0037] The term "desktop" refers to a metaphor used to portray systems. A desktop is generally considered a "surface" that may include pictures, called icons, widgets, folders, etc. that can activate and/or show applications, windows, cabinets, files, folders, documents, and other graphical items. The icons are generally selectable to initiate a task through user interface interaction to allow a user to execute applications and/or conduct other operations.

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[0038] The term "display" refers to a portion of a physical screen used to display the output of a computer to a user.

[0039] The term "displayed image" refers to an image produced on the display. A typical displayed image is a window or desktop. The displayed image may occupy all or a portion of the display.

[0040] The term "display orientation" refers to the way in which a rectangular display is oriented for viewing. The two most common types of display orientations are portrait and landscape. In landscape mode, the display is oriented such that the width of the display is greater than the height of the display (such as a 4:3 ratio, which is 4 units wide and 3 units tall, or a 16:9 ratio, which is 16 units wide and 9 units tall). Stated differently, the longer dimension of the display is oriented substantially horizontal in landscape mode while the shorter dimension of the display is oriented substantially vertical. In the portrait mode, by contrast, the display is oriented such that the width of the display is less than the height of the display. Stated differently, the shorter dimension of the display is oriented substantially horizontal in the portrait mode while the longer dimension of the display is oriented substantially vertical. A multi-screen display can have one composite display that encompasses all the screens. The composite display can have different display characteristics based on the various orientations of the device.

[0041] The term "electronic address" can refer to any contactable address, including a telephone number, instant message handle, e-mail address, Uniform Resource Locator ("URL"), Global Universal Identifier ("GUID"), Universal Resource Identifier ("URI"), Address of Record ("AOR"), electronic alias in a database, etc., combinations thereof.

[0042] The term "gesture" refers to a user action that expresses an intended idea, action, meaning, result, and/or outcome. The user action can include manipulating a device (e.g., opening or closing a device, changing a device orientation, moving a trackball or wheel, etc.), movement of a body part in relation to the device, movement of an implement or tool in relation to the device, audio inputs, etc. A gesture may be made on a device (such as on the screen) or with the device to interact with the device.

[0043] The term "gesture capture" refers to a sense or otherwise a detection of an instance and/or type of user gesture. The gesture capture can be received by sensors in three-dimensional space. Further, the gesture capture can occur in one or more areas of a screen, for example, on a touch-sensitive display or a gesture capture region. A gesture region can be on the display, where it may be referred to as a touch sensitive display, or off the display, where it may be referred to as a gesture capture area.

[0044] The terms "infotainment" and "infotainment system" may be used interchangeably and can refer to the hardware/software products, data, content, information, and/or systems, which can be built into or added to vehicles to enhance driver and/or passenger experience. Infotainment may provide media and/or multimedia content. An example is information-based media content or programming that also includes entertainment content.

[0045] A "multi-screen application" refers to an application that is capable of producing one or more windows that may simultaneously occupy one or more screens. A multi-screen application commonly can operate in single-screen mode in which one or more windows of the application are displayed only

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on one screen or in multi-screen mode in which one or more windows are displayed simultaneously on multiple screens.

[0046] A "single-screen application" refers to an application that is capable of producing one or more windows that may occupy only a single screen at a time.

[0047] The terms "online community," "e-community," or "virtual community" can mean a group of people that interact via a computer network, for social, professional, educational, and/or other purposes. The interaction can use a variety of media formats, including wikis, blogs, chat rooms, Internet forums, instant messaging, email, and other forms of electronic media. Many media formats may be used in social software separately and/or in combination, including text-based chat rooms and forums that use voice, video text or avatars.

[0048] The term "satellite positioning system receiver" can refer to a wireless receiver or transceiver to receive and/or send location signals from and/or to a satellite positioning system (SPS), such as the Global Positioning System ("GPS") (US), GLONASS (Russia), Galileo positioning system (EU), Compass navigation system (China), and Regional Navigational Satellite System (India).

[0049] The term "social network service" may include a service provider that builds online communities of people, who share interests and/or activities, or who are interested in exploring the interests and/or activities of others. Social network services can be network-based and may provide a variety of ways for users to interact, such as e-mail and instant messaging services.

[0050] The term "social network" can refer to a network-based social network.

[0051] The term "screen," "touch screen," "touchscreen," or "touch-sensitive display" refers to a physical structure that enables the user to interact with the computer by touching areas on the screen and provides information to a user through a display. The touch screen may sense user contact in a number of different ways, such as by a change in an electrical parameter (e.g., resistance or capacitance), acoustic wave variations, infrared radiation proximity detection, light variation detection, and the like. In a resistive touch screen, for example, normally separated conductive and resistive metallic layers in the screen pass an electrical current. When a user touches the screen, the two layers make contact in the contacted location, whereby a change in electrical field is noted and the coordinates of the contacted location calculated. In a capacitive touch screen, a capacitive layer stores electrical charge, which is discharged to the user upon contact with the touch screen, causing a decrease in the charge of the capacitive layer. The decrease is measured, and the contacted location coordinates determined. In a surface acoustic wave touch screen, an acoustic wave is transmitted through the screen, and the acoustic wave is disturbed by user contact. A receiving transducer detects the user contact instance and determines the contacted location coordinates.

[0052] The term "window" refers to a, typically rectangular, displayed image on at least part of a display that contains or provides content different from the rest of the screen. The window may obscure the desktop. The dimensions and orientation of the window may be configurable either by another

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module or by a user. When the window is expanded, the window can occupy substantially all of the display space on a screen or screens.

[0053] The terms "determine," "calculate," and "compute," and variations thereof, as used herein, are used interchangeably and include any type of methodology, process, mathematical operation, or technique.

[0054] It shall be understood that the term "means," as used herein, shall be given its broadest possible interpretation in accordance with 35 U.S.C., Section 112, Paragraph 6 or other applicable law. Accordingly, a claim incorporating the term "means" shall cover all structures, materials, or acts set forth herein, and all of the equivalents thereof. Further, the structures, materials or acts and the equivalents thereof shall include all those described in the summary of the invention, brief description of the drawings, detailed description, abstract, and claims themselves.

[0055] The terms "vehicle," "car," "automobile," and variations thereof may be used interchangeably herein and can refer to a device or structure for transporting animate and/or inanimate or tangible objects (e.g., persons and/or things), such as a self-propelled conveyance. A vehicle as used herein can include any conveyance or model of a conveyance, where the conveyance was originally designed for the purpose of moving one or more tangible objects, such as people, animals, cargo, and the like. The term "vehicle" does not require that a conveyance moves or is capable of movement. Typical vehicles may include but are in no way limited to cars, trucks, motorcycles, busses, automobiles, trains, railed conveyances, boats, ships, marine conveyances, submarine conveyances, airplanes, space craft, flying machines, human-powered conveyances, and the like.

[0056] The term "profile," as used herein, can refer to any data structure, data store, and/or database that includes one or more items of information associated with a vehicle, a vehicle system, a device (e.g., a mobile device, laptop, mobile phone, etc.), or a person.

[0057] The term "in communication with," as used herein, refers to any coupling, connection, or interaction using electrical signals to exchange information or data, using any system, hardware, software, protocol, or format, regardless of whether the exchange occurs wirelessly or over a wired connection.

[0058] The preceding is a simplified summary of the disclosure to provide an understanding of some aspects of the disclosure. This summary is neither an extensive nor exhaustive overview of the disclosure and its various aspects, embodiments, and/or configurations. It is intended neither to identify key or critical elements of the disclosure nor to delineate the scope of the disclosure but to present selected concepts of the disclosure in a simplified form as an introduction to the more detailed description presented below. As will be appreciated, other aspects, embodiments, and/or configurations of the disclosure are possible utilizing, alone or in combination, one or more of the features set forth above or described in detail below.

BRIEF DESCRIPTION OF THE DRAWINGS

[0059] Fig. 1 depicts an embodiment of a vehicle operating environment;

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[0060] Fig. 2 is a block diagram of an embodiment of a vehicle system;

[0061] Fig. 3 is a block diagram of an embodiment of a vehicle control system environment;

[0062] Fig. 4 is a block diagram of an embodiment of a vehicle communications subsystem;

[0063] Fig. 5A is a first block diagram of an embodiment of a vehicle interior environment separated into areas and/or zones;

[0064] Fig. 5B is a second block diagram of an embodiment of a vehicle interior environment separated into areas and/or zones;

[0065] Fig. 5C is a third block diagram of an embodiment of a vehicle interior environment separated into areas and/or zones;

[0066] Fig. 6A depicts an embodiment of a sensor configuration for a vehicle;

[0067] Fig. 6B depicts an embodiment of a sensor configuration for a zone of a vehicle;

[0068] Fig. 7A is a block diagram of an embodiment of interior sensors for a vehicle;

[0069] Fig. 7B is a block diagram of an embodiment of exterior sensors for a vehicle;

[0070] Fig. 8A is a block diagram of an embodiment of a media subsystem for a vehicle;

[0071] Fig. 8B is a block diagram of an embodiment of a user and device interaction subsystem for a vehicle;

[0072] Fig. 8C is a block diagram of an embodiment of a Navigation subsystem for a vehicle;

[0073] Fig. 9 is a block diagram of an embodiment of a communications subsystem for a vehicle;

[0074] Fig. 10 is a block diagram of an embodiment of a software architecture for the vehicle control system;

[0075] Fig. 11A is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

[0076] Fig. 11B is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

[0077] Fig. 11C is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

[0078] Fig. 11D is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

[0079] Fig. 11E is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

[0080] Fig. 11F is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

[0081] Fig. 11G is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

[0082] Fig. 11H is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

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[0083] Fig. 11I is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

[0084] Fig. 11J is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

[0085] Fig. 11K is a graphical representation of an embodiment of a gesture that a user may perform to provide input to a vehicle control system;

[0086] Fig. 12A is a diagram of an embodiment of a data structure for storing information about a user of a vehicle;

[0087] Fig. 12B is a diagram of an embodiment of a data structure for storing information about a device associated with or in a vehicle;

[0088] Fig. 12C is a diagram of an embodiment of a data structure for storing information about a system of a vehicle;

[0089] Fig. 12D is a diagram of an embodiment of a data structure for storing information about a vehicle;

[0090] Fig. 13 is a flow or process diagram of a method for storing one or more settings associated with a user;

[0091] Fig. 14 is a flow or process diagram of a method for establishing one or more settings associated with a user;

[0092] Fig. 15 is a flow or process diagram of a method for storing one or more settings associated with a user;

[0093] Fig. 16 is a flow or process diagram of a method for storing one or more gestures associated with a user;

[0094] Fig. 17 is a flow or process diagram of a method for reacting to a gesture performed by a user;

[0095] Fig. 18 is a flow or process diagram of a method for storing health data associated with a user;

[0096] Fig. 19 is a flow or process diagram of a method for reacting to a gesture performed by a user;

[0097] Fig. 20 illustrates an embodiment of additional vehicle subsystems and components;

[0098] Fig. 21illustrates another embodiment of additional vehicle subsystems and components;

[0099] Fig. 22 illustrates another embodiment of additional vehicle subsystems and components;

[0100] Fig. 23 is a flowchart illustrating an exemplary method for profile management;

[0101] Fig. 24 is a flowchart illustrating vehicle to mobile device communication;

[0102] Fig. 25 is a flowchart illustrating an exemplary method for profile transferring;

[0103] Fig. 26 is a flowchart illustrating an exemplary method for associating one or more profiles with a reservation;

[0104] Fig. 27 is a flowchart illustrating an exemplary method for vehicle monitoring;

[0105] Fig. 28 is a flowchart illustrating an exemplary method for parental control;

[0106] Fig. 29 is a flowchart illustrating an exemplary method for global context awareness.

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[0107] In the appended figures, similar components and/or features may have the same reference label. Further, various components of the same type may be distinguished by following the reference label by a letter that distinguishes among the similar components. If only the first reference label is used in the specification, the description is applicable to any one of the similar components having the same first reference label irrespective of the second reference letter or label.

DETAILED DESCRIPTION

[0108] Presented herein are embodiments of systems, devices, processes, data structures, user interfaces, etc. The embodiments may relate to an automobile and/or an automobile environment. The automobile environment can include systems associated with the automobile and devices or other systems in communication with the automobile and/or automobile systems. Furthermore, the systems can relate to communications systems and/or devices and may be capable of communicating with other devices and/or to an individual or group of individuals. Further, the systems can receive user input in unique ways. The overall design and functionality of the systems provide for an enhanced user experience making the automobile more useful and more efficient. As described herein, the automobile systems may be electrical, mechanical, electro-mechanical, software-based, and/or combinations thereof.

[0109] A vehicle environment 100 that may contain a vehicle ecosystem is shown in Fig. 1. The vehicle environment 100 can contain areas associated with a vehicle or conveyance 104. The vehicle 104 is shown as a car but can be any type of conveyance. The environment 100 can include at least three zones. A first zone 108 may be inside a vehicle 104. The zone 108 includes any interior space, trunk space, engine compartment, or other associated space within or associated with the vehicle 104. The interior zone 108 can be defined by one or more techniques, for example, geo-fencing.

[0110] A second zone 112 may be delineated by line 120. The zone 112 is created by a range of one or more sensors associated with the vehicle 104. Thus, the area 112 is exemplary of the range of those sensors and what can be detected by those sensors associated with the vehicle 104. Although sensor range is shown as a fixed and continuous oval, the sensor range may be dynamic and/or discontinuous. For example, a ranging sensor (e.g., radar, lidar, ladar, etc.) may provide a variable range depending on output power, signal characteristics, or environmental conditions (e.g., rain, fog, clear, etc.). The rest of the environment includes all space beyond the range of the sensors and is represented by space 116. Thus, the environment 100 may have an area 116 that includes all areas beyond the sensor range 112. The area 116 may include locations of travel that the vehicle 104 may proceed to in the future.

[0111] An embodiment of a vehicle system 200 is shown in Fig. 2. The vehicle system 200 may comprise hardware and/or software that conduct various operations for or with the vehicle 104. The operations can include, but are not limited to, providing information to the user 216, receiving input from the user 216, and controlling the functions or operation of the vehicle 104, etc. The vehicle system 200 can include a vehicle control system 204. The vehicle control system 204 can be any type of computing

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system operable to conduct the operations as described herein. An example of a vehicle control system may be as described in conjunction with Fig. 3.

[0112] The vehicle control system 204 may interact with a memory or storage system 208 that stores system data. System data 208 may be any type of data needed for the vehicle control system 204 to control effectively the vehicle 104. The system data 208 can represent any type of database or other storage system. Thus, the system data 208 can be a flat file data system, an object-oriented data system, or some other data system that may interface with the vehicle control system 204.

[0113] The vehicle control system 204 may communicate with a device or user interface 212, 248. The user interface 212, 248 may be operable to receive user input either through touch input, on one or more user interface buttons, via voice command, via one or more image sensors, or through a graphical user interface that may include a gesture capture region, as described in conjunction with the other figures provided herein. Further, the symbol 212, 248 can represent a device that is located or associated with the vehicle 104. The device 212, 248 can be a mobile device, including, but not limited to, a mobile telephone, a mobile computer, or other type of computing system or device that is either permanently located in or temporarily associated with, but not necessarily connected to, the vehicle 104. Thus, the vehicle control system 204 can interface with the device 212, 248 and leverage the device's computing capability to provide one or more of the features or functions as described herein.

[0114] The device or user interface 212, 248 can receive input or provide information to a user 216. The user 216 may thus interact with the vehicle control system 204 through the interface or device 212, 248. Further, the device 212, 248 may include or have access to device data 220 and/or profile data 252. The device data 220 can be any type of data that is used in conjunction with the device 212, 248 including, but not limited to, multimedia data, preferences data, device identification information, or other types of data. The profile data 252 can be any type of data associated with at least one user 216 including, but in no way limited to, bioinformatics, medical information, driving history, personal information (e.g., home physical address, business physical address, contact addresses, likes, dislikes, hobbies, size, weight, occupation, business contacts – including physical and/or electronic addresses, personal contacts – including physical and/or electronic addresses, family members, and personal information related thereto, etc.), other user characteristics, advertising information, user settings and feature preferences, travel information, associated vehicle preferences, communication preferences, historical information (e.g., including historical, current, and/or future travel destinations), Internet browsing history, or other types of data. In any event, the data may be stored as device data 220 and/or profile data 252 in a storage system similar to that described in conjunction with Figs. 12A through 12D.

[0115] As an example, the profile data 252 may include one or more user profiles. User profiles may be generated based on data gathered from one or more of vehicle preferences (e.g., seat settings, HVAC settings, dash configurations, and the like), recorded settings, geographic location information (e.g., provided by a satellite positioning system (e.g., GPS), Wi-Fi hotspot, cell tower data, etc.), mobile device information (such as mobile device electronic addresses, Internet browsing history and content,

application store selections, user settings and enabled and disabled features, and the like), private information (such as user information from a social network, user presence information, user business account, and the like), secure data, biometric information, audio information from on board microphones, video information from on board cameras, Internet browsing history and browsed content using an on board computer and/or the local area network enabled by the vehicle 104, geographic location information (e.g., a vendor storefront, roadway name, city name, etc.), and the like.

[0116] The profile data 252 may include one or more user accounts. User accounts may include access and permissions to one or more settings and/or feature preferences associated with the vehicle 104, communications, infotainment, content, etc. In one example, a user account may allow access to certain settings for a particular user, while another user account may deny access to the settings for another user, and vice versa. The access controlled by the user account may be based on at least one of a user account priority, role, permission, age, family status, a group priority (e.g., the user account priority of one or more users, etc.), a group age (e.g., the average age of users in the group, a minimum age of the users in the group, a maximum age of the users in the group, and/or combinations thereof, etc.).

[0117] For example, a user 216 may be allowed to purchase applications (e.g., software, etc.) for the vehicle 104 and/or a device associated with the vehicle 104 based on information associated with the user account. This user account information may include a preferred payment method, permissions, and/or other account information. As provided herein, the user account information may be part of the user profile and/or other data stored in the profile data 252.

[0118] As another example, an adult user (e.g., a user with an age of 18 years old and/or over, etc.) may be located in an area of a vehicle 104, such as a rear passenger area. Continuing this example a child user (e.g., a user with an age of 17 years old and/or less, etc.) may be located in the same, or close, area. In this example, the user account information in the profile data 252 associated with both the adult user and the child user may be used by the vehicle 104 in determining whether content is appropriate for the area given the age of the child user. For instance, a graphic movie containing violence (e.g., a movie associated with a mature rating, such as a Motion Picture Association of America (MPAA) rating of "R," "NC-17," etc.) may be suitable to present to a display device associated with the adult user but may not be acceptable to present to the display device if a 12-year old child user may see and/or hear the content of the movie.

[0119] The vehicle control system 204 may also communicate with or through a communication network 224. The communication network 224 can represent any type of wireless and/or wired communication system that may be included within the vehicle 104 or operable to communicate outside the vehicle 104. Thus, the communication network 224 can include a local area communication capability and a wide area communication capability. For example, the communication network 224 can include a Bluetooth® wireless system, an 802.11x (e.g., 802.11G/ 802.11N /802.11AC, or the like, wireless system), a CAN bus, an Ethernet network within the vehicle 104, or other types of communication networks that may function with or be associated with the vehicle 104. Further, the

communication network 224 can also include wide area communication capabilities, including one or more of, but not limited to, a cellular communication capability, satellite telephone communication capability, a wireless wide area network communication capability, or other types of communication capabilities that allow for the vehicle control system 204 to communicate outside the vehicle 104.

[0120] The vehicle control system 204 may communicate through the communication network 224 to a server 228 that may be located in a facility that is not within physical proximity to the vehicle 104. Thus, the server 228 may represent a cloud computing system or cloud storage that allows the vehicle control system 204 to either gain access to further computing capabilities or to storage at a location outside of the vehicle 104. The server 228 can include a computer processor and memory and be similar to any computing system as understood to one skilled in the art.

[0121] Further, the server 228 may be associated with stored data 232. The stored data 232 may be stored in any system or by any method, as described in conjunction with system data 208, device data 220, and/or profile data 252. The stored data 232 can include information that may be associated with one or more users 216 or associated with one or more vehicles 104. The stored data 232, being stored in a cloud or in a distant facility, may be exchanged among vehicles 104 or may be used by a user 216 in different locations or with different vehicles 104. Additionally or alternatively, the server may be associated with profile data 252 as provided herein. It is anticipated that the profile data 252 may be accessed across the communication network 224 by one or more components of the system 200. Similar to the stored data 232, the profile data 252, being stored in a cloud or in a distant facility, may be exchanged among vehicles 104 or may be used by a user 216 in different locations or with different vehicles 104.

[0122] The vehicle control system 204 may also communicate with one or more sensors 236, 242, which are either associated with the vehicle 104 or communicate with the vehicle 104. Vehicle sensors 242 may include one or more sensors for providing information to the vehicle control system 204 that determine or provide information about the environment 100 in which the vehicle 104 is operating. Embodiments of these sensors may be as described in conjunction with Figs. 6A-7B. Non-vehicle sensor 236 can be any type of sensor that is not currently associated with the vehicle 104. For example, non-vehicle sensor 236 can be sensors in a traffic system operated by a third party that provides data to the vehicle control system 204. Further, the non-vehicle sensor(s) 236 can be other types of sensors which provide information about the distant environment 116 or other information about the vehicle 104 or the environment 100. These non-vehicle sensors 236 may be operated by third parties but provide information to the vehicle control system 204. Examples of information provided by the sensors 236 and that may be used by the vehicle control system 204 may include weather tracking data, traffic data, user health tracking data, vehicle maintenance data, or other types of data, which may provide environmental or other data to the vehicle control system 204. The vehicle control system 204 may also perform signal processing of signals received from one or more sensors 236, 242. Such signal processing may include estimation of a measured parameter from a single sensor, such as multiple measurements of a range state

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parameter from the vehicle 104 to an obstacle, and/or the estimation, blending, or fusion of a measured state parameter from multiple sensors such as multiple radar sensors or a combination of a ladar/lidar range sensor and a radar sensor. Signal processing of such sensor signal measurements may comprise stochastic signal processing, adaptive signal processing, and/or other signal processing techniques known to those skilled in the art.

[0123] The various sensors 236, 242 may include one or more sensor memory 244. Embodiments of the sensor memory 244 may be configured to store data collected by the sensors 236, 242. For example, a temperature sensor may collect temperature data associated with a vehicle 104, user 216, and/or environment, over time. The temperature data may be collected incrementally, in response to a condition, or at specific time periods. In this example, as the temperature data is collected, it may be stored in the sensor memory 244. In some cases, the data may be stored along with an identification of the sensor and a collection time associated with the data. Among other things, this stored data may include multiple data points and may be used to track changes in sensor measurements over time. As can be appreciated, the sensor memory 244 can represent any type of database or other storage system.

[0124] The diagnostic communications module 256 may be configured to receive and transmit diagnostic signals and information associated with the vehicle 104. Examples of diagnostics signals and information may include, but is in no way limited to, vehicle system warnings, sensor data, vehicle component status, service information, component health, maintenance alerts, recall notifications, predictive analysis, and the like. Embodiments of the diagnostic communications module 256 may handle warning/error signals in a predetermined manner. The signals, for instance, can be presented to one or more of a third party, occupant, vehicle control system 204, and a service provider (e.g., manufacturer, repair facility, etc.).

[0125] Optionally, the diagnostic communications module 256 may be utilized by a third party (i.e., a party other than the user 216, etc.) in communicating vehicle diagnostic information. For instance, a manufacturer may send a signal to a vehicle 104 to determine a status associated with one or more components associated with the vehicle 104. In response to receiving the signal, the diagnostic communications module 256 may communicate with the vehicle control system 204 to initiate a diagnostic status check. Once the diagnostic status check is performed, the information may be sent via the diagnostic communications module 256 to the manufacturer. This example may be especially useful in determining whether a component recall should be issued based on the status check responses returned from a certain number of vehicles.

[0126] Wired/wireless transceiver/communications ports 260 may be included. The wired/wireless transceiver/communications ports 260 may be included to support communications over wired networks or links, for example with other communication devices, server devices, and/or peripheral devices. Examples of wired/wireless transceiver/communications ports 260 include Ethernet ports, Universal Serial Bus (USB) ports, Institute of Electrical and Electronics Engineers (IEEE) 1594, or other interface ports.

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[0127] An embodiment of a vehicle control environment 300 including a vehicle control system 204 may be as shown in Fig. 3. Beyond the vehicle control system 204, the vehicle control environment 300 can include one or more of, but is not limited to, a power source and/or power control module 316, a data storage module 320, user interface(s)/input interface(s) 324, vehicle subsystems 328, user interaction subsystems 332, Global Positioning System (GPS)/Navigation subsystems 336, sensor(s) and/or sensor subsystems 340, communication subsystems 344, media subsystems 348, and/or device interaction subsystems 352. The subsystems, modules, components, etc. 316-352 may include hardware, software, firmware, computer readable media, displays, input devices, output devices, etc. or combinations thereof. The system, subsystems, modules, components, etc. 204, 316-352 may communicate over a network or bus 356. This communication bus 356 may be bidirectional and perform data communications using any known or future-developed standard or protocol. An example of the communication bus 356 may be as described in conjunction with Fig. 4.

[0128] The vehicle control system 204 can include a processor 304, memory 308, and/or an input/output (I/O) module 312. Thus, the vehicle control system 204 may be a computer system, which can comprise hardware elements that may be electrically coupled. The hardware elements may include one or more central processing units (CPUs) 304; one or more components of the I/O module 312 including input devices (e.g., a mouse, a keyboard, etc.) and/or one or more output devices (e.g., a display device, a printer, etc.).

[0129] The processor 304 may comprise a general purpose programmable processor or controller for executing application programming or instructions. The processor 304 may, optionally, include multiple processor cores, and/or implement multiple virtual processors. Additionally or alternatively, the processor 304 may include multiple physical processors. As a particular example, the processor 304 may comprise a specially configured application specific integrated circuit (ASIC) or other integrated circuit, a digital signal processor, a controller, a hardwired electronic or logic circuit, a programmable logic device or gate array, a special purpose computer, or the like. The processor 304 generally functions to run programming code or instructions implementing various functions of the vehicle control system 204.

[0130] The input/output module 312 and associated ports may be included to support communications over wired or wireless networks or links, for example with other communication devices, server devices, and/or peripheral devices. Examples of an input/output module 312 include an Ethernet port, a Universal Serial Bus (USB) port, Institute of Electrical and Electronics Engineers (IEEE) 1594, or other interface.

[0131] The vehicle control system 204 may also include one or more storage devices 308. By way of example, storage devices 308 may be disk drives, optical storage devices, solid-state storage devices such as a random access memory ("RAM") and/or a read-only memory ("ROM"), which can be programmable, flash-updateable and/or the like. The vehicle control system 204 may additionally include a computer-readable storage media reader; a communications system (e.g., a modem, a network card (wireless or wired), an infra-red communication device, etc.); and working memory 308, which may include RAM and ROM devices as described above. The vehicle control system 204 may also include a

processing acceleration unit, which can include a digital signal processor (DSP), a special-purpose processor, and/or the like.

[0132] The computer-readable storage media reader can further be connected to a computer-readable storage medium, together (and, optionally, in combination with storage device(s)) comprehensively representing remote, local, fixed, and/or removable storage devices plus storage media for temporarily and/or more permanently containing computer-readable information. The communications system may permit data to be exchanged with an external or internal network and/or any other computer or device described herein. Moreover, as disclosed herein, the term "storage medium" may represent one or more devices for storing data, including read only memory (ROM), random access memory (RAM), magnetic RAM, core memory, magnetic disk storage mediums, optical storage mediums, flash memory devices, and/or other machine readable mediums for storing information.

[0133] The vehicle control system 204 may also comprise software elements including an operating system and/or other code, as described in conjunction with Fig. 10. It should be appreciated that alternates to the vehicle control system 204 may have numerous variations from that described herein. For example, customized hardware might also be used and/or particular elements might be implemented in hardware, software (including portable software, such as applets), or both. Further, connection to other computing devices such as network input/output devices may be employed.

[0134] The power source and/or power control module 316 can include any type of power source, including, but not limited to, batteries, alternating current sources (from connections to a building power system or power line), solar cell arrays, etc. One or more components or modules may also be included to control the power source or change the characteristics of the provided power signal. Such modules can include one or more of, but is not limited to, power regulators, power filters, alternating current (AC) to direct current (DC) converters, DC to AC converters, receptacles, wiring, other converters, etc. The power source and/or power control module 316 functions to provide the vehicle control system 204 and any other system with power.

[0135] The data storage 320 can include any module for storing, retrieving, and/or managing data in one or more data stores and/or databases. The database or data stores may reside on a storage medium local to (and/or resident in) the vehicle control system 204 or in the vehicle 104. Alternatively, some of the data storage capability may be remote from the vehicle control system 204 or automobile, and in communication (e.g., via a network) to the vehicle control system 204. The database or data stores may reside in a storage-area network ("SAN") familiar to those skilled in the art. Similarly, any necessary files for performing the functions attributed to the vehicle control system 204 may be stored locally on the respective vehicle control system 204 and/or remotely, as appropriate. The databases or data stores may be a relational database, and the data storage module 320 may be adapted to store, update, and retrieve data in response to specifically-formatted commands. The data storage module 320 may also perform data management functions for any flat file, object oriented, or other type of database or data store.

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[0136] A first data store that may be part of the vehicle control environment 300 is a profile data store 252 for storing data about user profiles and data associated with the users. A system data store 208 can include data used by the vehicle control system 204 and/or one or more of the components 324-352 to facilitate the functionality described herein. The data stores 208 and/or 252 may be as described in conjunction with Figs. 1 and/or 12A-12D.

[0137] The user interface/input interfaces 324 may be as described herein for providing information or data and/or for receiving input or data from a user. Vehicle systems 328 can include any of the mechanical, electrical, electromechanical, computer, or other systems associated with the function of the vehicle 100. For example, vehicle systems 328 can include one or more of, but is not limited to, the steering system, the braking system, the engine and engine control systems, the electrical system, the suspension, the drive train, the cruise control system, the radio, the heating, ventilation, air conditioning (HVAC) system, the windows and/or doors, etc. These systems are well known in the art and will not be described further.

[0138] Examples of the other systems and subsystems 324-352 may be as described further herein. For example, the user interface(s)/input interface(s) 324 may be as described in Figs. 2 and 8B; the vehicle subsystems 328 may be as described in Figs. 6a *et. seq.*; the user interaction subsystem 332 may be as described in conjunction with the user/device interaction subsystem 817 of Fig. 8B; the Navigation subsystem 336 may be as described in Figs. 6A and 8C; the sensor(s)/sensor subsystem 340 may be as described in Figs. 7A and 7B; the communication subsystem 344 may be as described in Figs. 2, 4, 5B, 5C, and 9; the media subsystem 348 may be as described in Fig. 8A; and, the device interaction subsystem 352 may be as described in Fig. 2 and in conjunction with the user/device interaction subsystem 817 of Fig. 8B.

[0139] Fig. 4 illustrates an optional communications channel architecture 400 and associated communications components. Fig. 4 illustrates some of the optional components that can be interconnected via the communication channels/zones 404. Communication channels/zones 404 can carry information on one or more of a wired and/or wireless communications link with, in the illustrated example, there being three communications channels/zones, 408, 412, and 416.

[0140] This optional environment 400 can also include an IP router 420, an operator cluster 424, one or more storage devices 428, one or more blades, such as master blade 432, and computational blades 436 and 440. Additionally, the communications channels/zones 404 can interconnect one or more displays, such as, remote display 1 444, remote display N 448, and console display 452. The communications channels/zones 404 also interconnect an access point 456, a Bluetooth® access point/USB hub 460, a Femtocell 464, a storage controller 468, that is connected to one or more of USB devices 472, DVDs 476, or other storage devices 480. To assist with managing communications within the communication channel, the environment 400 optionally includes a firewall 484 which will be discussed hereinafter in greater detail. Other components that could also share the communications

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channel/zones 404 include GPS 488, media controller 492, which is connected to one or more media sources 496, and one or more subsystems, such as subsystem switches 498.

[0141] Optionally, the communications channels/zones 404 can be viewed as an I/O network or bus where the communications channels are carried on the same physical media. Optionally, the communication channels 404 can be split amongst one or more physical media and/or combined with one or more wireless communications protocols. Optionally, the communications channels 404 can be based on wireless protocols with no physical media interconnecting the various elements described herein.

[0142] The environment 400 shown in Fig. 4 can include a collection of blade processors that are housed in a "crate." The crate can have a PC-style backplane connector 408 and a backplane Ethernet 408 that allows the various blades to communicate with one another using, for example, an Ethernet.

[0143] Various other functional elements illustrated in Fig. 4 can be integrated into this crate architecture with, as discussed hereinafter, various zones utilized for security. Optionally, as illustrated in Fig. 4, the backplane 404/408 can have two separate Ethernet zones that may or may not be on the same communications channel. Optionally, the zones exist on a single communications channel on the I/O network/bus 408. Optionally, the zones are actually on different communications channels, e.g., 412, 416; however, the implementation is not restricted to any particular type of configuration. Rather, as illustrated in Fig. 4, there can be a red zone 417 and a green zone 413, and the I/O backplane on the network/bus 408 that enables standard I/O operations. This backplane or I/O network/bus 408 also optionally can provide power distribution to the various modules and blades illustrated in Fig. 4. The red and green Ethernet zones, 417 and 413 respectively, can be implemented as Ethernet switches, with one on each side of the firewall 484. Two Ethernets (untrusted and trusted) are not connected in accordance with an optional embodiment. Optionally, the connector geometry for the firewall can be different for the Ethernet zones than for the blades that are a part of the system.

[0144] The red zone 417 only needs to go from the modular connector to the input side of the backplane connector of the firewall 484. While Fig. 4 indicates that there are five external red zone connectors to the firewall 484, provisions can be made for any number of ports with the connections being made at the access point 456, the Bluetooth® access point (combo controller) 460, Femtocell 464, storage controller 468, and/or firewall 484. Optionally, the external port connections can be made through a manufacturer configurable modular connector panel, and one or more of the red zone Ethernet ports could be available through a customer supplied crate which allows, for example, wired Ethernet connections from a bring-your-own-device (BYOD) to the firewall 484.

[0145] The green zone 413 goes from the output side of the firewall 484 and generally defines the trusted Ethernet. The Ethernet on the backplane 408 essentially implements an Ethernet switch for the entire system, defining the Ethernet backbone of the vehicle 104. All other modules, e.g., blades, etc., can connect to a standard backplane bus and the trusted Ethernet. Some number of switch ports can be reserved to connect to an output modular connector panel to distribute the Ethernet throughout the vehicle 104, e.g., connecting such elements as the console display 452, remote displays 444, 448, GPS

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488, etc. Optionally, only trusted components, either provided or approved by the manufacturer after testing, can be attached to the green zone 413, which is by definition in the trusted Ethernet environment.

[0146] Optionally, the environment 400, shown in Fig. 4, utilizes IPv6 over Ethernet connections wherever possible. Using, for example, the Broadcom single-twisted pair Ethernet technology, wiring harnesses are simplified and data transmission speeds are maximized. However, while the Broadcom single-twisted pair Ethernet technology can be used, in general, systems and methods can work comparably well with any type of well-known Ethernet technology or other comparable communications technology.

[0147] As illustrated in Fig. 4 the I/O network/bus 408 is a split-bus concept that contains three independent bus structures:

The red zone 417 - the untrusted Ethernet environment. This zone 417 may be used to connect network devices and customer provided devices to the vehicle information system with these devices being on the untrusted side of the firewall 484.

The green zone 413 - the trusted Ethernet environment, this zone 413 can be used to connect manufacturer certified devices such as GPS units, remote displays, subsystem switches, and the like, to the vehicle network 404. Manufacturer certified devices can be implemented by vendors that allow the vehicle software system to validate whether or not a device is certified to operate with the vehicle 100. Optionally, only certified devices are allowed to connect to the trusted side of the network.

The I/O bus 409 - the I/O bus may be used to provide power and data transmission to bus-based devices such as the vehicle solid state drive, the media controller blade 492, the computational blades 436, 440, and the like.

[0148] As an example, the split-bus structure can have the following minimum configuration:

Two slots for the red zone Ethernet;

One slot for built-in LTE/WiMax access 420 from the car to other network resources such as the cloud/Internet;

One slot for user devices or bring-your-own device access, this slot can implement, for example, WiFi, Bluetooth®, and/or USB connectivity 456, which can be provided in, for example, the customer crate;

One slot for combined red zone and green zone Ethernet, this slot can be reserved for the firewall controller;

Two slots for computational blades. Here the two computation blades are illustratively as shown the optional master blade and the multimedia blade or controller 492 which can be provided as standard equipment; and

The expansion controller that allows the I/O bus to be extended and provides additional Ethernet switch ports for one or more of the red or green zones, which may require that

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the basic green zone Ethernet switch implementation will support additional ports beyond the initial three that are needed for the basic exemplary system.
It should be possible to build 8 or 16 or more Ethernet switches that allow for the expansion with existing component(s) in a straight-forward manner.

[0149] The red zone 417 can be implemented as an 8-port Ethernet switch that has three actual bus ports within the crate with the remaining five ports being available on the customer crate. The crate implements red zone slots for the firewall controller 484, the combo controller which includes WiFi, Bluetooth®, USB hub (456, 460) and the IP router 420.

[0150] The firewall controller 484 can have a dedicated slot that bridges the red zone 417, green zone 413, and uses the I/O bus for power connections. In accordance with an optional low cost implementation, the firewall 484 can be implemented by a dummy module that simply bridges the red zone 417 and the green zone 413 without necessarily providing any firewall functionality. The combo controller 460 that includes the WiFi, Bluetooth®, and USB hub can be provided for consumer device connections. This controller can also implement the IPv6 (un-routable) protocol to insure that all information is packetized for transmission via IP over the Ethernet in the I/O network/bus 408.

[0151] The combo controller 460 with the USB hub can have ports in the customer crate. The combo controller 460 can implement USB discovery functions and packetizes the information for transmission via IP over Ethernet. The combo controller 460 can also facilitate installation of the correct USB driver for the discovered device, such as a BYOD from the user. The combo controller 460 and USB hub can then map the USB address to a "local" IPv6 address for interaction with one or more of the computational blades which is generally going to be the media controller 492.

[0152] The IP router 420 can implement Internet access through a manufacturer provided service. This service can allow, for example, a manufacturer to offer value-added services to be integrated into the vehicle information systems. The existence of the manufacturer provided Internet access can also allow the "e-Call" function and other vehicle data recorder functions to be implemented. IP router 420 also allows, for example, WiMax, 4G LTE, and other connections to the Internet through a service provider that can be, for example, contracted by the manufacturer. Internally, the IP router 420 can allow cellular handset connections to the Internet through a Femtocell 464 that is part of the IP router implementation. The IP router 420, with the Femtocell 464, can also allow a cone of silence functionality to be implemented. The IP router 420 can be an optional component for a vehicle provided by, for example, the manufacturer, a dealer, or installed by a user. In the absence of the IP router 420, it is possible to connect a consumer handheld device to the I/O network/bus 408 using, for example, either WiFi or Bluetooth® 456, 460. While functionality may be somewhat reduced when using a handheld device instead of a built-in Ethernet connection, systems and methods of this invention can also work utilizing this consumer handheld device which then connects to the Internet via, for example, WiMax, 4G, 4G LTE, or the like.

[0153] Figs. 5A-5C show configurations of a vehicle 104. In general, a vehicle 104 may provide functionality based at least partially on one or more areas, zones, and distances, associated with the vehicle 104. Non-limiting examples of this functionality are provided herein below.

[0154] An arrangement or configuration for sensors within a vehicle 104 is as shown in Fig. 5A. The sensor arrangement 500 can include one or more areas 508 within the vehicle. An area can be a larger part of the environment inside or outside of the vehicle 104. Thus, area one 508A may include the area within the trunk space or engine space of the vehicle 104 and/or the front passenger compartment. Area two 508B may include a portion of the interior space 108 (e.g., a passenger compartment, etc.) of the vehicle 104. The area N, 508N, may include the trunk space or rear compartment area, when included within the vehicle 104. The interior space 108 may also be divided into other areas. Thus, one area may be associated with the front passenger's and driver's seats, a second area may be associated with the middle passengers' seats, and a third area may be associated with a rear passenger's seat. Each area 508 may include one or more sensors that are positioned or operate to provide environmental information about that area 508.

[0155] Each area 508 may be further separated into one or more zones 512 within the area 508. For example, area 1 508A may be separated into zone A 512A, and zone B 512B. Each zone 512 may be associated with a particular portion of the interior occupied by a passenger. For example, zone A 512A may be associated with a driver. Zone B 512B, may be associated with a front passenger. Each zone 512 may include one or more sensors that are positioned or configured to collect information about the environment or ecosystem associated with that zone or person.

[0156] A passenger area 508B may include more than two zones as described in conjunction with area 508A. For example, area 508B may include three zones, 512C, 512D, and 512E. These three separate zones 512C, 512D, and 512E may be associated with three passenger seats typically found in the rear passenger area of a vehicle 104. An area 508N and may include a single zone 512N as there may be no separate passenger areas but may include a single trunk area within the vehicle 104. The number of zones 512 is unlimited within the areas as the areas are also unlimited inside the vehicle 104. Further, it should be noted that there may be one or areas 508 or zones 512 that may be located outside the vehicle 104 that may have a specific set of sensors associated therewith.

[0157] Optionally, each area/access point 508, 456, 516, 520, and/or zone 512, associated with a vehicle 104, may comprise one or more sensors to determine a presence of a user 216 and/or device 212, 248 in and/or adjacent to each area 508, 456, 516, 520, and/or zone 512. The sensors may include vehicle sensors 242 and/or non-vehicle sensors 236 as described herein. It is anticipated that the sensors may be configured to communicate with a vehicle control system 204 and/or the diagnostic communications module 256. Additionally or alternatively, the sensors may communicate with a device 212, 248. The communication of sensors with the vehicle 104 may initiate and/or terminate the control of device 212, 248 features. For example, a vehicle operator may be located in a second outside area 520 associated with a vehicle 104. As the operator approaches the first outside area 516, associated with the

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vehicle 104, the vehicle control system 204 may determine to control features associated with one or more device 212, 248 and diagnostic communications module 256.

[0158] Optionally, the location of the device 212, 248 relative to the vehicle 104 may determine vehicle functionality and/or features to be provided and/or restricted to a user 216. By way of example, a device 212, 248 associated with a user 216 may be located at a second outside area 520 from the vehicle 104. In this case, and based at least partially on the distance of the device 212, 248 from the vehicle 104 (e.g., provided by detecting the device 212, 248 at or beyond the second outside area 520) the vehicle 104 may lock one or more features (e.g., ignition access, vehicle access, communications ability, etc.) associated with the vehicle 104. Optionally, the vehicle 104 may provide an alert based on the distance of the device 212, 248 from the vehicle 104. Continuing the example above, once the device 212, 248 reaches the first outside area 516 of the vehicle 104 at least one of the vehicle features may be unlocked. For instance, by reaching the first outside area 516, the vehicle 104 may unlock a door of the vehicle 104. In some cases, when the device is detected to be inside the vehicle 104, the various sensors 236, 242 may determine that the user 216 is in an area 508 and/or zone 512. As is further described herein, features of the vehicle 104, device 212, 248, and/or other components may be controlled based on rules stored in a memory.

[0159] Fig. 5B illustrates optional internal vehicle communications between one or more of the vehicle and one or more devices or between devices. Various communications can occur utilizing one or more Bluetooth®, NFC, WiFi, mobile hot spot, point-to-point communications, point-to-multipoint other point communications, an ad hoc network, or in general any known communications protocol over any known communications media or media-types.

[0160] Optionally, various types of internal vehicle communications can be facilitated using an access point 456 that utilizes one or more of Bluetooth®, NFC, WiFi, wireless Ethernet, mobile hot spot technology, or the like. Upon being connected with, and optionally authenticated to the access point 456, the connected device is able to communicate with one or more of the vehicle and one or more other devices that are connected to the access point 456. The type of connection to the access point 456 can be based on, for example, the zone 512, in which the device is located.

[0161] The user may identify their zone 512 in conjunction with an authentication procedure to the access point 456. For example, a driver in zone A 512A, upon authenticating to the access point 456, can cause the access point 456 to send a query to the device asking the device user in which zone 512 they are located. As discussed hereinafter, the zone 512 the user device is located in may have an impact on the type of communications, available bandwidth, the types of other devices or vehicle systems or subsystems the device could communicate with, and the like. As a brief introduction, internal communications with zone A 512A may be given preferential treatment over those communications originating from area 2 508B, which could have in itself, preferential treatment over communications originating within area N 508N.

[0162] Moreover, the device in zone A 512A can include profile information that governs the other devices that are allowed to connect to the access point 456 and what those devices have access to, how they can communicate, how much bandwidth they are allocated, and the like. While, optionally, the device associated with zone A 512A will be considered the "master" controller of the profile that governs the internal vehicle communications, it should be appreciated that this was arbitrarily chosen since it is assumed that there will always be a driver in a car that is present in zone A 512A. However, it should be appreciated the driver in zone A 512A, for example, may not have a communications device in which case a device associated with one of the other areas or zones, such as zone B 512B, area 2 508B, or area N 508N could also be associated with or control this master profile.

[0163] Optionally, various devices located within the various zones 512 can connect using, for example, ports provided by access point 456 or Bluetooth® access point/USB hub 460 as illustrated in Fig 4. Similarly, the device(s) could connect utilizing the Femtocell 464 and optionally be directly connected via, for example, a standard Ethernet port.

[0164] As discussed, each one of the areas, area 1 508A, area 2 508B, and area N 508N, can each have associated therewith a profile that governs, for example, how many and what types of devices can connect from that area 508, bandwidth allocated to that area 508, the types of media or content available to device(s) within that area 508, the interconnection of devices within that area 508 or between areas 508, or, in general, can control any aspect of communication of an associated device with any one or more other associated devices/vehicle systems within the vehicle 104.

[0165] Optionally, area 2 508B devices can be provided with full access to multimedia and infotainment available within the vehicle 104, however, devices in area 2 508B may be restricted from any access to vehicle functions. Only devices in area 1 508A may be able to access vehicle control functions such as when "parents" are located in area 1 508A and the children are located in area 2 508B. Optionally, devices found in zone E 512E of area 2 508B may be able to access limited vehicle control functionality such as climate control within area 2. Similarly, devices in area N 508N may be able to control climate features within zone N 512N.

[0166] As will be appreciated, profiles can be established that allow management of communications within each of the areas 508, and further optionally within each of the zones 512. The profile can be granular in nature controlling not only what type of devices can connect within each zone 512, but how those devices can communicate with other devices and/or the vehicle and types of information that can be communicated.

[0167] To assist with identifying a location of a device within a zone 512, a number of different techniques can be utilized. One optional technique involves one or more of the vehicle sensors detecting the presence of an individual within one of the zones 512. Upon detection of an individual in a zone 512, communications subsystems 344 and the access point 456 can cooperate to not only associate the device within the zone 512 with the access point 456 but to also determine the location of the device within an area, and optionally within a zone 512. Once the device is established within a zone 512, a profile

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associated with the vehicle 104 can store information identifying that device and/or a person and optionally associating it with a particular zone 512 as a default. As discussed, there can be a master profile optionally associated with the device in zone A 512A, this master profile can govern communications with the communications subsystems 340 and where communications within vehicle 104 are to occur.

[0168] Some optional profiles are illustrated below where the Master Profile governs other device connectivity:

Master Profile:

Area 1 508A	Area 2 508B	Area N 508N	Other
All Communications	Allow Access to Infotainment	No Access	Master Profile acts as Firewall and Router
All Vehicle Controls	Allow Area 2 Climate Control		

Secondary Profile (e.g., device in Zone B 512B, Area 1 508A)

Area 1 508A	Area 2 508B	Area N 508N	Other
All Communications	Allow Access to Infotainment	Allow Access to Infotainment	Master Profile acts as Firewall and Router
All Vehicle Controls	Allow Area 2 Climate Control	Allow Area 2 Climate Control	

Secondary Profile, Option 2

Area 1 508A	Area 2 508B	Area N 508N	Other
All Communications	Allow Access to Infotainment, Internet	Allow Access to Infotainment	
All Vehicle Controls Except Driver-centric Controls	Allow Area 2 Climate Control	Allow Area 2 Climate Control	

[0169] Some optional profiles are illustrated below where the Area/Zone governs device connectivity:

Area 2 508B Profile:

Area 1 508A	Area 2 508B	Area N 508N	Other
No Communications with Area 1 Devices	Allow Access to Infotainment, Allow Access to Other Area 2 or Zone N Devices,		

	Internet		
No Vehicle Controls	Allow Area 2 Climate Control		

Area N 508N Profile:

Area 1 508A	Area 2 508B	Area N 508N	Other
Communications with Area 1, Zone B Device		Allow Access to Infotainment, Allow Access to Other Area N or Zone N Devices	
No Vehicle Controls		Allow Area N Climate Control	

Area 2 508B Profile:

Area 1 508A	Area 2 508B	Area N 508N	Other
Media Sharing with Area 1, Zone B and Vehicle	Allow Access to Infotainment, Allow Access to Other Area 2 or Zone N Devices, Internet and Femtocell		
No Vehicle Controls			

[0170] Optionally, a user's device, such as a SmartPhone, can store in, for example a profile, with which zone 512 the user's device is associated. Then, assuming the user sits in the same zone 512 and area 508 as previously, the user's device can re-establish the same communications protocols with the access point 456 as were previously established.

[0171] In addition or in the alternative, the areas 508 and zones 512 can have associated therewith restrictions as to which one or more other user's devices with which users' devices can connect. For example, a first user's device can connect with any other user device in area 2 508B or area N 508N, however is restricted from connecting with a user device in area 1 508A, zone A 512A. However, the first user device may be able to communicate with another user's device that is located in area 1 508A, zone B 512B. These communications can include any type of standard communications such as sharing content, exchanging messages, forwarding or sharing multimedia or infotainment, or in general can include any communications that would ordinarily be available between two devices and/or the vehicle and vehicle systems. As discussed, there may be restrictions on the type of communications that can be sent to the device in area 1 508A, zone A 512A. For example, the user's device in area 1 508A, zone A 512A may be restricted from receiving one or more of text messages, multimedia, infotainment, or in

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general anything that can be envisioned as a potential distraction to the driver. Moreover, it should be appreciated that the communications between the various devices and the various zones 512 need not necessarily occur with the assistance of access point 456, but the communications could also occur directly between the device(s).

[0172] Fig. 5C outlines optional internal vehicle communications between one or more of the vehicle and one or more devices. More specifically, Fig. 5C illustrates an example of vehicle communications where the vehicle 104 is equipped with the necessary transceivers to provide a mobile hot spot functionality to any user device(s) therein, such as user devices 248A and 248N.

[0173] Optionally, and as discussed above, one or more user devices can connect to the access point 456. This access point 456 is equipped to handle communications routing to not only the communication network/buses 224 for intra-vehicle communications, but optionally can also communicate with, for example, the Internet or the cloud, in cooperation with transceiver 260. Optionally included is a firewall 484 that has the capability of not only blocking certain types of content, such as a malicious content, but can also operate to exclude certain type of communications from emanating from the vehicle 104 and transceiver 260. As will be appreciated, various profiles could be established in the firewall 484 that controls not only the type of communications that can be received at the vehicle 104, but the type of communications that can be sent from the vehicle 104.

[0174] The transceiver 260 can be any type of well-known wireless transceiver that communicates using a known communications protocol such as WiMax, 4G, 4G LTE, 3G, or the like. The user devices can communicate via, for example, WiFi link 248 with the access point 456, with the transceiver 260 providing Internet connectivity to the various user devices. As will be appreciated, there may need to be an account associated with transceiver 260 with a wireless carrier to provide data and/or voice connectivity to enable the user devices to communicate with the Internet. Typically, the account is established on a month-to-month basis with an associated fee but could also be performed based on the amount of data to be transmitted, received, or in any other manner.

[0175] Moreover, one or more of the user's devices and access point 456 can maintain profile information that governs how the user's devices are able to communicate with other devices, and optionally the Internet. Optionally, a profile can exist that only allows the user's devices to communicate with other user's devices and/or the vehicle, multimedia and/or the vehicle infotainment system, and may not be allowed access to the Internet via transceiver 260. The profile can stipulate that the user's device could connect to the Internet via transceiver 260 for a specified period of time and/or up to a certain amount of data usage. The user's device can have full access to the Internet via transceiver 260 with no limit on time or data usage which would reduce the data usage of the user's device since it is connected via WiFi to the access point 456, but however, would increase the data usage by transceiver 260, and therefore, shift the billing for that data usage to the transceiver 260 instead of the user's device. Still further, and as previously discussed, the various profiles may stipulate which user's device has priority for use of the bandwidth provided by the transceiver 260. For example, a user's device located area 1

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508A, zone A 512A may be given preferential routing treatment of data above that of a user's device in zone N 512N. In this manner, for example, a driver would be given priority for Internet access above that of the passengers. This could become important, for example, when the driver is trying to obtain traffic or direction information or, for example, when the vehicle is performing a download to update various software features.

[0176] As will be appreciated, the optional firewall 484 can cooperate with the access point 456 and the various profiles that area 508 associated with the various devices within the vehicle 104 and can fully implement communications restrictions, control bandwidth limits, Internet accessibility, malicious software blocking, and the like. Moreover, the optional firewall 484 can be accessed by an administrator with one or more of these configuration settings edited through an administrator's control panel. For example, in a scenario where parents are always in area 1 508A, it may be appropriate to give all of the user's devices in area 1 508A full access to the Internet utilizing transceiver 260, however, while restricting access and/or bandwidth to any other user devices within the vehicle 104. As the user's device and profile would be known by the firewall 484, upon the user's device being associated with the access point 456, the firewall 484 and transceiver 260 can be configured to allow communications in accordance with the stored profile.

[0177] A set of sensors or vehicle components 600 associated with the vehicle 104 may be as shown in Fig. 6A. The vehicle 104 can include, among many other components common to vehicles, wheels 607, a power source 609 (such as an engine, motor, or energy storage system (e.g., battery or capacitive energy storage system)), a manual or automatic transmission 612, a manual or automatic transmission gear controller 616, a power controller 620 (such as a throttle), a vehicle control system 204, the display device 212, a braking system 636, a steering wheel 640, a power source activation/deactivation switch 644 (e.g., an ignition), an occupant seating system 648, a wireless signal receiver 653 to receive wireless signals from signal sources such as roadside beacons and other electronic roadside devices, and a satellite positioning system receiver 657 (e.g., a Global Positioning System ("GPS") (US), GLONASS (Russia), Galileo positioning system (EU), Compass navigation system (China), and Regional Navigational Satellite System (India) receiver), driverless systems (e.g., cruise control systems, automatic steering systems, automatic braking systems, etc.).

[0178] The vehicle 104 can include a number of sensors in wireless or wired communication with the vehicle control system 204 and/or display device 212, 248 to collect sensed information regarding the vehicle state, configuration, and/or operation. Exemplary sensors may include one or more of, but are not limited to, wheel state sensor 660 to sense one or more of vehicle speed, acceleration, deceleration, wheel rotation, wheel speed (e.g., wheel revolutions-per-minute), wheel slip, and the like, a power source energy output sensor 664 to sense a power output of the power source 609 by measuring one or more of current engine speed (e.g., revolutions-per-minute), energy input and/or output (e.g., voltage, current, fuel consumption, and torque) (e.g., turbine speed sensor, input speed sensor, crankshaft position sensor, manifold absolute pressure sensor, mass flow sensor, and the like), and the like, a switch state sensor 668

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to determine a current activation or deactivation state of the power source activation/deactivation switch 644, a transmission setting sensor 670 to determine a current setting of the transmission (e.g., gear selection or setting), a gear controller sensor 672 to determine a current setting of the gear controller 616, a power controller sensor 674 to determine a current setting of the power controller 620, a brake sensor 676 to determine a current state (braking or non-braking) of the braking system 636, a seating system sensor 678 to determine a seat setting and current weight of seated occupant, if any) in a selected seat of the seating system 648, exterior and interior sound receivers 690 and 692 (e.g., a microphone, sonar, and other type of acoustic-to-electric transducer or sensor) to receive and convert sound waves into an equivalent analog or digital signal. Examples of other sensors (not shown) that may be employed include safety system state sensors to determine a current state of a vehicular safety system (e.g., air bag setting (deployed or undeployed) and/or seat belt setting (engaged or not engaged)), light setting sensor (e.g., current headlight, emergency light, brake light, parking light, fog light, interior or passenger compartment light, and/or tail light state (on or off)), brake control (e.g., pedal) setting sensor, accelerator pedal setting or angle sensor, clutch pedal setting sensor, emergency brake pedal setting sensor, door setting (e.g., open, closed, locked or unlocked) sensor, engine temperature sensor, passenger compartment or cabin temperature sensor, window setting (open or closed) sensor, one or more interior-facing or exterior-facing cameras or other imaging sensors (which commonly convert an optical image into an electronic signal but may include other devices for detection objects such as an electromagnetic radiation emitter/receiver that emits electromagnetic radiation and receives electromagnetic waves reflected by the object) to sense objects, such as other vehicles and pedestrians and optionally determine the distance, trajectory and speed of such objects, in the vicinity or path of the vehicle, odometer reading sensor, trip mileage reading sensor, wind speed sensor, radar transmitter/receiver output, brake wear sensor, steering/torque sensor, oxygen sensor, ambient lighting sensor, vision system sensor, ranging sensor, parking sensor, heating, venting, and air conditioning (HVAC) sensor, water sensor, air-fuel ratio meter, blind spot monitor, hall effect sensor, microphone, radio frequency (RF) sensor, infrared (IR) sensor, vehicle control system sensors, wireless network sensor (e.g., Wi-Fi and/or Bluetooth® sensor), cellular data sensor, and other sensors either future-developed or known to those of skill in the vehicle art.

[0179] In the depicted vehicle embodiment, the various sensors can be in communication with the display device 212, 248 and vehicle control system 204 via signal carrier network 224. As noted, the signal carrier network 224 can be a network of signal conductors, a wireless network (e.g., a radio frequency, microwave, or infrared communication system using a communications protocol, such as Wi-Fi), or a combination thereof. The vehicle control system 204 may also provide signal processing of one or more sensors, sensor fusion of similar and/or dissimilar sensors, signal smoothing in the case of erroneous "wild point" signals, and/or sensor fault detection. For example, ranging measurements provided by one or more RF sensors may be combined with ranging measurements from one or more IR sensors to determine one fused estimate of vehicle range to an obstacle target.

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[0180] The control system 204 may receive and read sensor signals, such as wheel and engine speed signals, as a digital input comprising, for example, a pulse width modulated (PWM) signal. The processor 304 can be configured, for example, to read each of the signals into a port configured as a counter or configured to generate an interrupt on receipt of a pulse, such that the processor 304 can determine, for example, the engine speed in revolutions per minute (RPM) and the speed of the vehicle in miles per hour (MPH) and/or kilometers per hour (KPH). One skilled in the art will recognize that the two signals can be received from existing sensors in a vehicle comprising a tachometer and a speedometer, respectively. Alternatively, the current engine speed and vehicle speed can be received in a communication packet as numeric values from a conventional dashboard subsystem comprising a tachometer and a speedometer. The transmission speed sensor signal can be similarly received as a digital input comprising a signal coupled to a counter or interrupt signal of the processor 304 or received as a value in a communication packet on a network or port interface from an existing subsystem of the vehicle 104. The ignition sensor signal can be configured as a digital input, wherein a HIGH value represents that the ignition is on and a LOW value represents that the ignition is OFF. Three bits of the port interface can be configured as a digital input to receive the gear shift position signal, representing eight possible gear shift positions. Alternatively, the gear shift position signal can be received in a communication packet as a numeric value on the port interface. The throttle position signal can be received as an analog input value, typically in the range 0-5 volts. Alternatively, the throttle position signal can be received in a communication packet as a numeric value on the port interface. The output of other sensors can be processed in a similar fashion.

[0181] Other sensors may be included and positioned in the interior space 108 of the vehicle 104. Generally, these interior sensors obtain data about the health of the driver and/or passenger(s), data about the safety of the driver and/or passenger(s), and/or data about the comfort of the driver and/or passenger(s). The health data sensors can include sensors in the steering wheel that can measure various health telemetry for the person (e.g., heart rate, temperature, blood pressure, blood presence, blood composition, etc.). Sensors in the seats may also provide for health telemetry (e.g., presence of liquid, weight, weight shifts, etc.). Infrared sensors could detect a person's temperature; optical sensors can determine a person's position and whether the person has become unconscious. Other health sensors are possible and included herein.

[0182] Safety sensors can measure whether the person is acting safely. Optical sensors can determine a person's position and focus. If the person stops looking at the road ahead, the optical sensor can detect the lack of focus. Sensors in the seats may detect if a person is leaning forward or may be injured by a seat belt in a collision. Other sensors can detect that the driver has at least one hand on a steering wheel. Other safety sensors are possible and contemplated as if included herein.

[0183] Comfort sensors can collect information about a person's comfort. Temperature sensors may detect a temperature of the interior cabin. Moisture sensors can determine a relative humidity. Audio

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sensors can detect loud sounds or other distractions. Audio sensors may also receive input from a person through voice data. Other comfort sensors are possible and contemplated as if included herein.

[0184] Fig. 6B shows an interior sensor configuration for one or more zones 512 of a vehicle 104 optionally. Optionally, the areas 508 and/or zones 512 of a vehicle 104 may include sensors that are configured to collect information associated with the interior 108 of a vehicle 104. In particular, the various sensors may collect environmental information, user information, and safety information, to name a few. Embodiments of these sensors may be as described in conjunction with Figs. 7A-8B.

[0185] Optionally, the sensors may include one or more of optical, or image, sensors 622A-B (e.g., cameras, etc.), motion sensors 624A-B (e.g., utilizing RF, IR, and/or other sound/image sensing, etc.), steering wheel user sensors 642 (e.g., heart rate, temperature, blood pressure, sweat, health, etc.), seat sensors 677 (e.g., weight, load cell, moisture, electrical, force transducer, etc.), safety restraint sensors 679 (e.g., seatbelt, airbag, load cell, force transducer, etc.), interior sound receivers 692A-B, environmental sensors 694 (e.g., temperature, humidity, air, oxygen, etc.), and the like.

[0186] The image sensors 622A-B may be used alone or in combination to identify objects, users 216, and/or other features, inside the vehicle 104. Optionally, a first image sensor 622A may be located in a different position within a vehicle 104 from a second image sensor 622B. When used in combination, the image sensors 622A-B may combine captured images to form, among other things, stereo and/or three-dimensional (3D) images. The stereo images can be recorded and/or used to determine depth associated with objects and/or users 216 in a vehicle 104. Optionally, the image sensors 622A-B used in combination may determine the complex geometry associated with identifying characteristics of a user 216. For instance, the image sensors 622A-B may be used to determine dimensions between various features of a user's face (e.g., the depth/distance from a user's nose to a user's cheeks, a linear distance between the center of a user's eyes, and more). These dimensions may be used to verify, record, and even modify characteristics that serve to identify a user 216. As can be appreciated, utilizing stereo images can allow for a user 216 to provide complex gestures in a 3D space of the vehicle 104. These gestures may be interpreted via one or more of the subsystems as disclosed herein. Optionally, the image sensors 622A-B may be used to determine movement associated with objects and/or users 216 within the vehicle 104. It should be appreciated that the number of image sensors used in a vehicle 104 may be increased to provide greater dimensional accuracy and/or views of a detected image in the vehicle 104.

[0187] The vehicle 104 may include one or more motion sensors 624A-B. These motion sensors 624A-B may detect motion and/or movement of objects inside the vehicle 104. Optionally, the motion sensors 624A-B may be used alone or in combination to detect movement. For example, a user 216 may be operating a vehicle 104 (e.g., while driving, etc.) when a passenger in the rear of the vehicle 104 unbuckles a safety belt and proceeds to move about the vehicle 104. In this example, the movement of the passenger could be detected by the motion sensors 624A-B. Optionally, the user 216 could be alerted of this movement by one or more of the devices 212, 248 in the vehicle 104. In another example, a passenger may attempt to reach for one of the vehicle control features (e.g., the steering wheel 640, the

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console, icons displayed on the head unit and/or device 212, 248, etc.). In this case, the movement (i.e., reaching) of the passenger may be detected by the motion sensors 624A-B. Optionally, the path, trajectory, anticipated path, and/or some other direction of movement/motion may be determined using the motion sensors 624A-B. In response to detecting the movement and/or the direction associated with the movement, the passenger may be prevented from interfacing with and/or accessing at least some of the vehicle control features (e.g., the features represented by icons may be hidden from a user interface, the features may be locked from use by the passenger, combinations thereof, etc.). As can be appreciated, the user 216 may be alerted of the movement/motion such that the user 216 can act to prevent the passenger from interfering with the vehicle 104 controls. Optionally, the number of motion sensors in a vehicle 104, or areas of a vehicle 104, may be increased to increase an accuracy associated with motion detected in the vehicle 104.

[0188] The interior sound receivers 692A-B may include, but are not limited to, microphones and other types of acoustic-to-electric transducers or sensors. Optionally, the interior sound receivers 692A-B may be configured to receive and convert sound waves into an equivalent analog or digital signal. The interior sound receivers 692A-B may serve to determine one or more locations associated with various sounds in the vehicle 104. The location of the sounds may be determined based on a comparison of volume levels, intensity, and the like, between sounds detected by two or more interior sound receivers 692A-B. For instance, a first interior sound receiver 692A may be located in a first area of the vehicle 104 and a second interior sound receiver 692B may be located in a second area of the vehicle 104. If a sound is detected at a first volume level by the first interior sound receiver 692A and a second, higher, volume level by the second interior sound receiver 692B in the second area of the vehicle 104, the sound may be determined to be closer to the second area of the vehicle 104. As can be appreciated, the number of sound receivers used in a vehicle 104 may be increased (e.g., more than two, etc.) to increase measurement accuracy surrounding sound detection and location, or source, of the sound (e.g., via triangulation, etc.).

[0189] Seat sensors 677 may be included in the vehicle 104. The seat sensors 677 may be associated with each seat and/or zone 512 in the vehicle 104. Optionally, the seat sensors 677 may provide health telemetry and/or identification via one or more of load cells, force transducers, weight sensors, moisture detection sensor, electrical conductivity/resistance sensor, and the like. For example, the seat sensors 677 may determine that a user 216 weighs 180 lbs. This value may be compared to user data stored in memory to determine whether a match exists between the detected weight and a user 216 associated with the vehicle 104. In another example, if the seat sensors 677 detect that a user 216 is fidgeting, or moving, in a seemingly uncontrollable manner, the system may determine that the user 216 has suffered a nervous and/or muscular system issue (e.g., seizure, etc.). The vehicle control system 204 may then cause the vehicle 104 to slow down and in addition or alternatively the automobile controller 8104 (described below) can safely take control of the vehicle 104 and bring the vehicle 104 to a stop in a safe location (e.g., out of traffic, off a freeway, etc).

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[0190] Health telemetry and other data may be collected via the steering wheel user sensors 642. Optionally, the steering wheel user sensors 642 may collect heart rate, temperature, blood pressure, and the like, associated with a user 216 via at least one contact disposed on or about the steering wheel 640.

[0191] The safety restraint sensors 679 may be employed to determine a state associated with one or more safety restraint devices in a vehicle 104. The state associated with one or more safety restraint devices may serve to indicate a force observed at the safety restraint device, a state of activity (e.g., retracted, extended, various ranges of extension and/or retraction, deployment, buckled, unbuckled, etc.), damage to the safety restraint device, and more.

[0192] Environmental sensors 694, including one or more of temperature, humidity, air, oxygen, carbon monoxide, smoke, and other environmental condition sensors may be used in a vehicle 104. These environmental sensors 694 may be used to collect data relating to the safety, comfort, and/or condition of the interior space 108 of the vehicle 104. Among other things, the data collected by the environmental sensors 694 may be used by the vehicle control system 204 to alter functions of a vehicle. The environment may correspond to an interior space 108 of a vehicle 104 and/or specific areas 508 and/or zones 512 of the vehicle 104. It should be appreciate that an environment may correspond to a user 216. For example, a low oxygen environment may be detected by the environmental sensors 694 and associated with a user 216 who is operating the vehicle 104 in a particular zone 512. In response to detecting the low oxygen environment, at least one of the subsystems of the vehicle 104, as provided herein, may alter the environment, especially in the particular zone 512, to increase the amount of oxygen in the zone 512. Additionally or alternatively, the environmental sensors 694 may be used to report conditions associated with a vehicle (e.g., fire detected, low oxygen, low humidity, high carbon monoxide, etc.). The conditions may be reported to a user 216 and/or a third party via at least one communications module as provided herein.

[0193] Among other things, the sensors as disclosed herein may communicate with each other, with devices 212, 248, and/or with the vehicle control system 204 via the signal carrier network 224. Additionally or alternatively, the sensors disclosed herein may serve to provide data relevant to more than one category of sensor information including, but not limited to, combinations of environmental information, user information, and safety information to name a few.

[0194] Figs. 7A-7B show block diagrams of various sensors that may be associated with a vehicle 104. Although depicted as interior and exterior sensors, it should be appreciated that any of the one or more of the sensors shown may be used in both the interior space 108 and the exterior space of the vehicle 104. Moreover, sensors having the same symbol or name may include the same, or substantially the same, functionality as those sensors described elsewhere in the present disclosure. Further, although the various sensors are depicted in conjunction with specific groups (e.g., environmental 708, 708E, user interface 712, safety 716, 716E, etc.) the sensors should not be limited to the groups in which they appear. In other words, the sensors may be associated with other groups or combinations of groups and/or disassociated from one or more of the groups shown. The sensors as disclosed herein may

communicate with each other, the devices 212, 248, and/or the vehicle control system 204 via one or more communications channel(s) 356.

[0195] Fig. 7A is a block diagram of an embodiment of interior sensors 340 for a vehicle 104 is provided. The interior sensors 340 may be arranged into one or more groups, based at least partially on the function of the interior sensors 340. The interior space 108 of a vehicle 104 may include an environmental group 708, a user interface group 712, and a safety group 716. Additionally or alternatively, there may be sensors associated with various devices inside the vehicle (e.g., devices 212, 248, smart phones, tablets, mobile computers, etc.)

[0196] The environmental group 708 may comprise sensors configured to collect data relating to the internal environment of a vehicle 104. It is anticipated that the environment of the vehicle 104 may be subdivided into areas 508 and zones 512 in an interior space 108 of a vehicle 104. In this case, each area 508 and/or zone 512 may include one or more of the environmental sensors. Examples of environmental sensors associated with the environmental group 708 may include, but are not limited to, oxygen/air sensors 724, temperature sensors 728, humidity sensors 732, light/photo sensors 736, and more. The oxygen/air sensors 724 may be configured to detect a quality of the air in the interior space 108 of the vehicle 104 (e.g., ratios and/or types of gasses comprising the air inside the vehicle 104, dangerous gas levels, safe gas levels, etc.). Temperature sensors 728 may be configured to detect temperature readings of one or more objects, users 216, and/or areas 508 of a vehicle 104. Humidity sensors 732 may detect an amount of water vapor present in the air inside the vehicle 104. The light/photo sensors 736 can detect an amount of light present in the vehicle 104. Further, the light/photo sensors 736 may be configured to detect various levels of light intensity associated with light in the vehicle 104.

[0197] The user interface group 712 may comprise sensors configured to collect data relating to one or more users 216 in a vehicle 104. As can be appreciated, the user interface group 712 may include sensors that are configured to collect data from users 216 in one or more areas 508 and zones 512 of the vehicle 104. For example, each area 508 and/or zone 512 of the vehicle 104 may include one or more of the sensors in the user interface group 712. Examples of user interface sensors associated with the user interface group 712 may include, but are not limited to, infrared sensors 740, motion sensors 744, weight sensors 748, wireless network sensors 752, biometric sensors 756, camera (or image) sensors 760, audio sensors 764, and more.

[0198] Infrared sensors 740 may be used to measure IR light irradiating from at least one surface, user 216, or other object in the vehicle 104. Among other things, the Infrared sensors 740 may be used to measure temperatures, form images (especially in low light conditions), identify users 216, and even detect motion in the vehicle 104.

[0199] The motion sensors 744 may be similar to the motion detectors 624A-B, as described in conjunction with Fig. 6B. Weight sensors 748 may be employed to collect data relating to objects and/or users 216 in various areas 508 of the vehicle 104. In some cases, the weight sensors 748 may be included in the seats and/or floor of a vehicle 104.

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[0200] Optionally, the vehicle 104 may include a wireless network sensor 752. This sensor 752 may be configured to detect one or more wireless network(s) inside the vehicle 104. Examples of wireless networks may include, but are not limited to, wireless communications utilizing Bluetooth®, Wi-Fi™, ZigBee, IEEE 802.11, and other wireless technology standards. For example, a mobile hotspot may be detected inside the vehicle 104 via the wireless network sensor 752. In this case, the vehicle 104 may determine to utilize and/or share the mobile hotspot detected via/with one or more other devices 212, 248 and/or components associated with the vehicle 104.

[0201] Biometric sensors 756 may be employed to identify and/or record characteristics associated with a user 216. It is anticipated that biometric sensors 756 can include at least one of image sensors, IR sensors, fingerprint readers, weight sensors, load cells, force transducers, heart rate monitors, blood pressure monitors, and the like as provided herein.

[0202] The camera sensors 760 may be similar to image sensors 622A-B, as described in conjunction with Fig. 6B. Optionally, the camera sensors may record still images, video, and/or combinations thereof. The audio sensors 764 may be similar to the interior sound receivers 692A-B, as described in conjunction with Figs. 6A-6B. The audio sensors may be configured to receive audio input from a user 216 of the vehicle 104. The audio input from a user 216 may correspond to voice commands, conversations detected in the vehicle 104, phone calls made in the vehicle 104, and/or other audible expressions made in the vehicle 104.

[0203] The safety group 716 may comprise sensors configured to collect data relating to the safety of a user 216 and/or one or more components of a vehicle 104. The vehicle 104 may be subdivided into areas 508 and/or zones 512 in an interior space 108 of a vehicle 104 where each area 508 and/or zone 512 may include one or more of the safety sensors provided herein. Examples of safety sensors associated with the safety group 716 may include, but are not limited to, force sensors 768, mechanical motion sensors 772, orientation sensors 776, restraint sensors 780, and more.

[0204] The force sensors 768 may include one or more sensors inside the vehicle 104 configured to detect a force observed in the vehicle 104. One example of a force sensor 768 may include a force transducer that converts measured forces (e.g., force, weight, pressure, etc.) into output signals.

[0205] Mechanical motion sensors 772 may correspond to encoders, accelerometers, damped masses, and the like. Optionally, the mechanical motion sensors 772 may be adapted to measure the force of gravity (i.e., G-force) as observed inside the vehicle 104. Measuring the G-force observed inside a vehicle 104 can provide valuable information related to a vehicle's acceleration, deceleration, collisions, and/or forces that may have been suffered by one or more users 216 in the vehicle 104. As can be appreciated, the mechanical motion sensors 772 can be located in an interior space 108 or an exterior of the vehicle 104.

[0206] Orientation sensors 776 can include accelerometers, gyroscopes, magnetic sensors, and the like that are configured to detect an orientation associated with the vehicle 104. Similar to the mechanical

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motion sensors 772, the orientation sensors 776 can be located in an interior space 108 or an exterior of the vehicle 104.

[0207] The restraint sensors 780 may be similar to the safety restraint sensors 679 as described in conjunction with Figs. 6A-6B. These sensors 780 may correspond to sensors associated with one or more restraint devices and/or systems in a vehicle 104. Seatbelts and airbags are examples of restraint devices and/or systems. As can be appreciated, the restraint devices and/or systems may be associated with one or more sensors that are configured to detect a state of the device/system. The state may include extension, engagement, retraction, disengagement, deployment, and/or other electrical or mechanical conditions associated with the device/system.

[0208] The associated device sensors 720 can include any sensors that are associated with a device 212, 248 in the vehicle 104. As previously stated, typical devices 212, 248 may include smart phones, tablets, laptops, mobile computers, and the like. It is anticipated that the various sensors associated with these devices 212, 248 can be employed by the vehicle control system 204. For example, a typical smart phone can include, an image sensor, an IR sensor, audio sensor, gyroscope, accelerometer, wireless network sensor, fingerprint reader, and more. It is an aspect of the present disclosure that one or more of these associated device sensors 720 may be used by one or more subsystems of the vehicle system 200.

[0209] In Fig. 7B, a block diagram of an embodiment of exterior sensors 340 for a vehicle 104 is shown. The exterior sensors may include sensors that are identical, or substantially similar, to those previously disclosed in conjunction with the interior sensors of Fig. 7A. Optionally, the exterior sensors 340 may be configured to collect data relating to one or more conditions, objects, users 216, and other events that are external to the interior space 108 of the vehicle 104. For instance, the oxygen/air sensors 724 may measure a quality and/or composition of the air outside of a vehicle 104. As another example, the motion sensors 744 may detect motion outside of a vehicle 104.

[0210] The external environmental group 708E may comprise sensors configured to collect data relating to the external environment of a vehicle 104. In addition to including one or more of the sensors previously described, the external environmental group 708E may include additional sensors, such as, vehicle sensors 750, biological sensors, and wireless signal sensors 758. Vehicle sensors 750 can detect vehicles that are in an environment surrounding the vehicle 104. For example, the vehicle sensors 750 may detect vehicles in a first outside area 516, a second outside area 520, and/or combinations of the first and second outside areas 516, 520. Optionally, the vehicle sensors 750 may include one or more of RF sensors, IR sensors, image sensors, and the like to detect vehicles, people, hazards, etc. that are in an environment exterior to the vehicle 104. Additionally or alternatively, the vehicle sensors 750 can provide distance/directional information relating to a distance (e.g., distance from the vehicle 104 to the detected object) and/or a direction (e.g., direction of travel, etc.) associated with the detected object.

[0211] The biological sensors 754 may determine whether one or more biological entities (e.g., an animal, a person, a user 216, etc.) is in an external environment of the vehicle 104. Additionally or alternatively, the biological sensors 754 may provide distance information relating to a distance of the

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biological entity from the vehicle 104. Biological sensors 754 may include at least one of RF sensors, IR sensors, image sensors and the like that are configured to detect biological entities. For example, an IR sensor may be used to determine that an object, or biological entity, has a specific temperature, temperature pattern, or heat signature. Continuing this example, a comparison of the determined heat signature may be compared to known heat signatures associated with recognized biological entities (e.g., based on shape, locations of temperature, and combinations thereof, etc.) to determine whether the heat signature is associated with a biological entity or an inanimate, or non-biological, object.

[0212] The wireless signal sensors 758 may include one or more sensors configured to receive wireless signals from signal sources such as Wi-Fi™ hotspots, cell towers, roadside beacons, other electronic roadside devices, and satellite positioning systems. Optionally, the wireless signal sensors 758 may detect wireless signals from one or more of a mobile phone, mobile computer, keyless entry device, RFID device, near field communications (NFC) device, and the like.

[0213] The external safety group 716E may comprise sensors configured to collect data relating to the safety of a user 216 and/or one or more components of a vehicle 104. Examples of safety sensors associated with the external safety group 716E may include, but are not limited to, force sensors 768, mechanical motion sensors 772, orientation sensors 776, vehicle body sensors 782, and more. Optionally, the exterior safety sensors 716E may be configured to collect data relating to one or more conditions, objects, vehicle components, and other events that are external to the vehicle 104. For instance, the force sensors 768 in the external safety group 716E may detect and/or record force information associated with the outside of a vehicle 104. For instance, if an object strikes the exterior of the vehicle 104, the force sensors 768 from the exterior safety group 716E may determine a magnitude, location, and/or time associated with the strike.

[0214] The vehicle 104 may include a number of vehicle body sensors 782. The vehicle body sensors 782 may be configured to measure characteristics associated with the body (e.g., body panels, components, chassis, windows, etc.) of a vehicle 104. For example, two vehicle body sensors 782, including a first body sensor and a second body sensor, may be located at some distance apart. Continuing this example, the first body sensor may be configured to send an electrical signal across the body of the vehicle 104 to the second body sensor, or vice versa. Upon receiving the electrical signal from the first body sensor, the second body sensor may record a detected current, voltage, resistance, and/or combinations thereof associated with the received electrical signal. Values (e.g., current, voltage, resistance, etc.) for the sent and received electrical signal may be stored in a memory. These values can be compared to determine whether subsequent electrical signals sent and received between vehicle body sensors 782 deviate from the stored values. When the subsequent signal values deviate from the stored values, the difference may serve to indicate damage and/or loss of a body component. Additionally or alternatively, the deviation may indicate a problem with the vehicle body sensors 782. The vehicle body sensors 782 may communicate with each other, a vehicle control system 204, and/or systems of the vehicle system 200 via a communications channel 356. Although described using electrical signals, it

should be appreciated that alternative embodiments of the vehicle body sensors 782 may use sound waves and/or light to perform a similar function.

[0215] Fig. 8A is a block diagram of an embodiment of a media controller subsystem 348 for a vehicle 104. The media controller subsystem 348 may include, but is not limited to, a media controller 804, a media processor 808, a match engine 812, an audio processor 816, a speech synthesis module 820, a network transceiver 824, a signal processing module 828, memory 832, and a language database 836. Optionally, the media controller subsystem 348 may be configured as a dedicated blade that implements the media-related functionality of the system 200. Additionally or alternatively, the media controller subsystem 348 can provide voice input, voice output, library functions for multimedia, and display control for various areas 508 and/or zones 512 of the vehicle 104.

[0216] Optionally, the media controller subsystem 348 may include a local IP address (e.g., IPv4, IPv6, combinations thereof, etc.) and even a routable, global unicast address. The routable, global unicast address may allow for direct addressing of the media controller subsystem 348 for streaming data from Internet resources (e.g., cloud storage, user accounts, etc.). It is anticipated, that the media controller subsystem 348 can provide multimedia via at least one Internet connection, or wireless network communications module, associated with the vehicle 104. Moreover, the media controller subsystem 348 may be configured to service multiple independent clients simultaneously.

[0217] The media processor 808 may comprise a general purpose programmable processor or controller for executing application programming or instructions related to the media subsystem 348. The media processor 808 may include multiple processor cores, and/or implement multiple virtual processors. Optionally, the media processor 808 may include multiple physical processors. By way of example, the media processor 808 may comprise a specially configured application specific integrated circuit (ASIC) or other integrated circuit, a digital signal processor, a controller, a hardwired electronic or logic circuit, a programmable logic device or gate array, a special purpose computer, or the like. The media processor 808 generally functions to run programming code or instructions implementing various functions of the media controller 804.

[0218] The match engine 812 can receive input from one or more components of the vehicle system 800 and perform matching functions. Optionally, the match engine 812 may receive audio input provided via a microphone 886 of the system 800. The audio input may be provided to the media controller subsystem 348 where the audio input can be decoded and matched, via the match engine 812, to one or more functions available to the vehicle 104. Similar matching operations may be performed by the match engine 812 relating to video input received via one or more image sensors, cameras 878, and the like.

[0219] The media controller subsystem 348 may include a speech synthesis module 820 configured to provide audio output to one or more speakers 880, or audio output devices, associated with the vehicle 104. Optionally, the speech synthesis module 820 may be configured to provide audio output based at least partially on the matching functions performed by the match engine 812.

[0220] As can be appreciated, the coding/decoding, the analysis of audio input/output, and/or other operations associated with the match engine 812 and speech synthesis module 820, may be performed by the media processor 808 and/or a dedicated audio processor 816. The audio processor 816 may comprise a general purpose programmable processor or controller for executing application programming or instructions related to audio processing. Further, the audio processor 816 may be similar to the media processor 808 described herein.

[0221] The network transceiver 824 can include any device configured to transmit and receive analog and/or digital signals. Optionally, the media controller subsystem 348 may utilize a network transceiver 824 in one or more communication networks associated with the vehicle 104 to receive and transmit signals via the communications channel 356. Additionally or alternatively, the network transceiver 824 may accept requests from one or more devices 212, 248 to access the media controller subsystem 348. One example of the communication network is a local-area network (LAN). As can be appreciated, the functionality associated with the network transceiver 824 may be built into at least one other component of the vehicle 104 (e.g., a network interface card, communications module, etc.).

[0222] The signal processing module 828 may be configured to alter audio/multimedia signals received from one or more input sources (e.g., microphones 886, etc.) via the communications channel 356. Among other things, the signal processing module 828 may alter the signals received electrically, mathematically, combinations thereof, and the like.

[0223] The media controller 804 may also include memory 832 for use in connection with the execution of application programming or instructions by the media processor 808, and for the temporary or long term storage of program instructions and/or data. As examples, the memory 832 may comprise RAM, DRAM, SDRAM, or other solid state memory.

[0224] The language database 836 may include the data and/or libraries for one or more languages, as are used to provide the language functionality as provided herein. In one case, the language database 836 may be loaded on the media controller 804 at the point of manufacture. Optionally, the language database 836 can be modified, updated, and/or otherwise changed to alter the data stored therein. For instance, additional languages may be supported by adding the language data to the language database 836. In some cases, this addition of languages can be performed via accessing administrative functions on the media controller 804 and loading the new language modules via wired (e.g., USB, etc.) or wireless communication. In some cases, the administrative functions may be available via a vehicle console device 248, a user device 212, 248, and/or other mobile computing device that is authorized to access administrative functions (e.g., based at least partially on the device's address, identification, etc.).

[0225] One or more video controllers 840 may be provided for controlling the video operation of the devices 212, 248, 882 associated with the vehicle. Optionally, the video controller 840 may include a display controller for controlling the operation of touch sensitive screens, including input (touch sensing) and output (display) functions. Video data may include data received in a stream and unpacked by a processor and loaded into a display buffer. In this example, the processor and video controller 840 can

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optimize the display based on the characteristics of a screen of a display device 212, 248, 882. The functions of a touch screen controller may be incorporated into other components, such as a media processor 808 or display subsystem.

[0226] The audio controller 844 can provide control of the audio entertainment system (e.g., radio, subscription music service, multimedia entertainment, etc.), and other audio associated with the vehicle 104 (e.g., navigation systems, vehicle comfort systems, convenience systems, etc.). Optionally, the audio controller 844 may be configured to translate digital signals to analog signals and vice versa. As can be appreciated, the audio controller 844 may include device drivers that allow the audio controller 844 to communicate with other components of the system 800 (e.g., processors 816, 808, audio I/O 874, and the like).

[0227] The system 800 may include a profile identification module 848 to determine whether a user profile is associated with the vehicle 104. Among other things, the profile identification module 848 may receive requests from a user 216, or device 212, 228, 248, to access a profile stored in a profile database 856 or profile data 252. Additionally or alternatively, the profile identification module 848 may request profile information from a user 216 and/or a device 212, 228, 248, to access a profile stored in a profile database 856 or profile data 252. In any event, the profile identification module 848 may be configured to create, modify, retrieve, and/or store user profiles in the profile database 856 and/or profile data 252. The profile identification module 848 may include rules for profile identification, profile information retrieval, creation, modification, and/or control of components in the system 800.

[0228] By way of example, a user 216 may enter the vehicle 104 with a smart phone or other device 212. In response to determining that a user 216 is inside the vehicle 104, the profile identification module 848 may determine that a user profile is associated with the user's smart phone 212. As another example, the system 800 may receive information about a user 216 (e.g., from a camera 878, microphone 886, etc.), and, in response to receiving the user information, the profile identification module 848 may refer to the profile database 856 to determine whether the user information matches a user profile stored in the database 856. It is anticipated that the profile identification module 848 may communicate with the other components of the system to load one or more preferences, settings, and/or conditions based on the user profile. Further, the profile identification module 848 may be configured to control components of the system 800 based on user profile information.

[0229] Optionally, data storage 852 may be provided. Like the memory 832, the data storage 852 may comprise a solid state memory device or devices. Alternatively or in addition, the data storage 852 may comprise a hard disk drive or other random access memory. Similar to the data storage 852, the profile database 856 may comprise a solid state memory device or devices.

[0230] An input/output module 860 and associated ports may be included to support communications over wired networks or links, for example with other communication devices, server devices, and/or peripheral devices. Examples of an input/output module 860 include an Ethernet port, a Universal Serial Bus (USB) port, CAN Bus, Institute of Electrical and Electronics Engineers (IEEE) 1594, or other

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interface. Users may bring their own devices (e.g., Bring Your Own Device (BYOD), device 212, etc.) into the vehicle 104 for use with the various systems disclosed. Although most BYOD devices can connect to the vehicle systems (e.g., the media controller subsystem 348, etc.) via wireless communications protocols (e.g., Wi-Fi™, Bluetooth®, etc.) many devices may require a direct connection via USB, or similar. In any event, the input/output module 860 can provide the necessary connection of one or more devices to the vehicle systems described herein.

[0231] A video input/output interface 864 can be included to receive and transmit video signals between the various components in the system 800. Optionally, the video input/output interface 864 can operate with compressed and uncompressed video signals. The video input/output interface 864 can support high data rates associated with image capture devices. Additionally or alternatively, the video input/output interface 864 may convert analog video signals to digital signals.

[0232] The infotainment system 870 may include information media content and/or entertainment content, informational devices, entertainment devices, and the associated programming therefor. Optionally, the infotainment system 870 may be configured to handle the control of one or more components of the system 800 including, but in no way limited to, radio, streaming audio/video devices, audio devices 880, 882, 886, video devices 878, 882, travel devices (e.g., GPS, navigational systems, etc.), wireless communication devices, network devices, and the like. Further, the infotainment system 870 can provide the functionality associated with other infotainment features as provided herein.

[0233] An audio input/output interface 874 can be included to provide analog audio to an interconnected speaker 880 or other device, and to receive analog audio input from a connected microphone 886 or other device. As an example, the audio input/output interface 874 may comprise an associated amplifier and analog to digital converter. Alternatively or in addition, the devices 212, 248 can include integrated audio input/output devices 880, 886 and/or an audio jack for interconnecting an external speaker 880 or microphone 886. For example, an integrated speaker 880 and an integrated microphone 886 can be provided, to support near talk, voice commands, spoken information exchange, and/or speaker phone operations.

[0234] Among other things, the system 800 may include devices that are part of the vehicle 104 and/or part of a device 212, 248 that is associated with the vehicle 104. For instance, these devices may be configured to capture images, display images, capture sound, and present sound. Optionally, the system 800 may include at least one of image sensors/cameras 878, display devices 882, audio input devices/microphones 886, and audio output devices/speakers 880. The cameras 878 can be included for capturing still and/or video images. Alternatively or in addition, image sensors 878 can include a scanner or code reader. An image sensor/camera 878 can include or be associated with additional elements, such as a flash or other light source. In some cases, the display device 882 may include an audio input device and/or an audio output device in addition to providing video functions. For instance, the display device 882 may be a console, monitor, a tablet computing device, and/or some other mobile computing device.

[0235] Fig. 8B is a block diagram of an embodiment of a user/device interaction subsystem 817 in a vehicle system 800. The user/device interaction subsystem 817 may comprise hardware and/or software that conduct various operations for or with the vehicle 104. For instance, the user/device interaction subsystem 817 may include at least one user interaction subsystem 332 and device interaction subsystem 352 as previously described. These operations may include, but are not limited to, providing information to the user 216, receiving input from the user 216, and controlling the functions or operation of the vehicle 104, etc. Among other things, the user/device interaction subsystem 817 may include a computing system operable to conduct the operations as described herein.

[0236] Optionally, the user/device interaction subsystem 817 can include one or more of the components and modules provided herein. For instance, the user/device interaction subsystem 817 can include one or more of a video input/output interface 864, an audio input/output interface 874, a sensor module 814, a device interaction module 818, a user identification module 822, a vehicle control module 826, an environmental control module 830, and a gesture control module 834. The user/device interaction subsystem 817 may be in communication with other devices, modules, and components of the system 800 via the communications channel 356.

[0237] The user/device interaction subsystem 817 may be configured to receive input from a user 216 and/or device via one or more components of the system. By way of example, a user 216 may provide input to the user/device interaction subsystem 817 via wearable devices 802, 806, 810, video input (e.g., via at least one image sensor/camera 878, etc.) audio input (e.g., via the microphone, audio input source, etc.), gestures (e.g., via at least one image sensor 878, motion sensor 888, etc.), device input (e.g., via a device 212, 248 associated with the user, etc.), combinations thereof, and the like.

[0238] The wearable devices 802, 806, 810 can include heart rate monitors, blood pressure monitors, glucose monitors, pedometers, movement sensors, wearable computers, and the like. Examples of wearable computers may be worn by a user 216 and configured to measure user activity, determine energy spent based on the measured activity, track user sleep habits, determine user oxygen levels, monitor heart rate, provide alarm functions, and more. It is anticipated that the wearable devices 802, 806, 810 can communicate with the user/device interaction subsystem 817 via wireless communications channels or direct connection (e.g., where the device docks, or connects, with a USB port or similar interface of the vehicle 104).

[0239] A sensor module 814 may be configured to receive and/or interpret input provided by one or more sensors in the vehicle 104. In some cases, the sensors may be associated with one or more user devices (e.g., wearable devices 802, 806, 810, smart phones 212, mobile computing devices 212, 248, and the like). Optionally, the sensors may be associated with the vehicle 104, as described in conjunction with Figs. 6A-7B.

[0240] The device interaction module 818 may communicate with the various devices as provided herein. Optionally, the device interaction module 818 can provide content, information, data, and/or media associated with the various subsystems of the vehicle system 800 to one or more devices 212, 248,

802, 806, 810, 882, etc. Additionally or alternatively, the device interaction module 818 may receive content, information, data, and/or media associated with the various devices provided herein.

[0241] The user identification module 822 may be configured to identify a user 216 associated with the vehicle 104. The identification may be based on user profile information that is stored in profile data 252. For instance, the user identification module 822 may receive characteristic information about a user 216 via a device, a camera, and/or some other input. The received characteristics may be compared to data stored in the profile data 252. Where the characteristics match, the user 216 is identified. As can be appreciated, where the characteristics do not match a user profile, the user identification module 822 may communicate with other subsystems in the vehicle 104 to obtain and/or record profile information about the user 216. This information may be stored in a memory and/or the profile data storage 252.

[0242] The vehicle control module 826 may be configured to control settings, features, and/or the functionality of a vehicle 104. In some cases, the vehicle control module 826 can communicate with the vehicle control system 204 to control critical functions (e.g., driving system controls, braking, accelerating, etc.) and/or noncritical functions (e.g., driving signals, indicator/hazard lights, mirror controls, window actuation, etc.) based at least partially on user/device input received by the user/device interaction subsystem 817.

[0243] The environmental control module 830 may be configured to control settings, features, and/or other conditions associated with the environment, especially the interior environment, of a vehicle 104. Optionally, the environmental control module 830 may communicate with the climate control system (e.g. changing cabin temperatures, fan speeds, air direction, etc.), oxygen and/or air quality control system (e.g., increase/decrease oxygen in the environment, etc.), interior lighting (e.g., changing intensity of lighting, color of lighting, etc.), an occupant seating system 648 (e.g., adjusting seat position, firmness, height, etc.), steering wheel 640 (e.g., position adjustment, etc.), infotainment/entertainment system (e.g., adjust volume levels, display intensity adjustment, change content, etc.), and/or other systems associated with the vehicle environment. Additionally or alternatively, these systems can provide input, set-points, and/or responses, to the environmental control module 830. As can be appreciated, the environmental control module 830 may control the environment based at least partially on user/device input received by the user/device interaction subsystem 817.

[0244] The gesture control module 834 is configured to interpret gestures provided by a user 216 in the vehicle 104. Optionally, the gesture control module 834 may provide control signals to one or more of the vehicle systems 300 disclosed herein. For example, a user 216 may provide gestures to control the environment, critical and/or noncritical vehicle functions, the infotainment system, communications, networking, and more. Optionally, gestures may be provided by a user 216 and detected via one or more of the sensors as described in conjunction with Figs. 6B-7A. As another example, one or more motion sensors 888 may receive gesture input from a user 216 and provide the gesture input to the gesture control module 834. Continuing this example, the gesture input is interpreted by the gesture control module 834. This interpretation may include comparing the gesture input to gestures stored in a memory.

The gestures stored in memory may include one or more functions and/or controls mapped to specific gestures. When a match is determined between the detected gesture input and the stored gesture information, the gesture control module 834 can provide a control signal to any of the systems/subsystems as disclosed herein.

[0245] Fig. 8C illustrates a GPS/Navigation subsystem(s) 336. The Navigation subsystem(s) 336 can be any present or future-built navigation system that may use location data, for example, from the Global Positioning System (GPS), to provide navigation information or control the vehicle 104. The Navigation subsystem(s) 336 can include several components or modules, such as, one or more of, but not limited to, a GPS Antenna/receiver 892, a location module 896, a maps database 8100, an automobile controller 8104, a vehicle systems transceiver 8108, a traffic controller 8112, a network traffic transceiver 8116, a vehicle-to-vehicle transceiver 8120, a traffic information database 8124, etc. Generally, the several components or modules 892-8124 may be hardware, software, firmware, computer readable media, or combinations thereof.

[0246] A GPS Antenna/receiver 892 can be any antenna, GPS puck, and/or receiver capable of receiving signals from a GPS satellite or other navigation system, as mentioned hereinbefore. The signals may be demodulated, converted, interpreted, etc. by the GPS Antenna/receiver 892 and provided to the location module 896. Thus, the GPS Antenna/receiver 892 may convert the time signals from the GPS system and provide a location (e.g., coordinates on a map) to the location module 896. Alternatively, the location module 896 can interpret the time signals into coordinates or other location information.

[0247] The location module 896 can be the controller of the satellite navigation system designed for use in automobiles. The location module 896 can acquire position data, as from the GPS Antenna/receiver 892, to locate the user or vehicle 104 on a road in the unit's map database 8100. Using the road database 8100, the location module 896 can give directions to other locations along roads also in the database 8100. When a GPS signal is not available, the location module 896 may apply dead reckoning to estimate distance data from sensors 242 including one or more of, but not limited to, a speed sensor attached to the drive train of the vehicle 104, a gyroscope, an accelerometer, etc. GPS signal loss and/or multipath can occur due to urban canyons, tunnels, and other obstructions. Additionally or alternatively, the location module 896 may use known locations of Wi-Fi hotspots, cell tower data, etc. to determine the position of the vehicle 104, such as by using time difference of arrival (TDOA) and/or frequency difference of arrival (FDOA) techniques.

[0248] The maps database 8100 can include any hardware and/or software to store information about maps, geographical information system information, location information, etc. The maps database 8100 can include any data definition or other structure to store the information. Generally, the maps database 8100 can include a road database that may include one or more vector maps of areas of interest. Street names, street numbers, house numbers, and other information can be encoded as geographic coordinates so that the user can find some desired destination by street address. Points of interest (waypoints) can

also be stored with their geographic coordinates. For example, a point of interest may include speed cameras, fuel stations, public parking, and "parked here" (or "you parked here") information. The map database contents can be produced or updated by a server connected through a wireless system in communication with the Internet, even as the vehicle 104 is driven along existing streets, yielding an up-to-date map.

[0249] An automobile controller 8104 can be any hardware and/or software that can receive instructions from the location module 896 or the traffic controller 8112 and operate the vehicle 104. The automobile controller 8104 receives this information and data from the sensors 242 to operate the vehicle 104 without driver input. Thus, the automobile controller 8104 can drive the vehicle 104 along a route provided by the location module 896. The route may be adjusted by information sent from the traffic controller 8112. Discrete and real-time driving can occur with data from the sensors 242. To operate the vehicle 104, the automobile controller 8104 can communicate with a vehicle systems transceiver 8108.

[0250] The vehicle systems transceiver 8108 can be any present or future-developed device that can comprise a transmitter and/or a receiver, which may be combined and can share common circuitry or a single housing. The vehicle systems transceiver 8108 may communicate or instruct one or more of the vehicle control subsystems 328. For example, the vehicle systems transceiver 8108 may send steering commands, as received from the automobile controller 8104, to an electronic steering system, to adjust the steering of the vehicle 100 in real time. The automobile controller 8104 can determine the effect of the commands based on received sensor data 242 and can adjust the commands as need be. The vehicle systems transceiver 8108 can also communicate with the braking system, the engine and drive train to speed or slow the car, the signals (e.g., turn signals and brake lights), the headlights, the windshield wipers, etc. Any of these communications may occur over the components or function as described in conjunction with Fig. 4.

[0251] A traffic controller 8112 can be any hardware and/or software that can communicate with an automated traffic system and adjust the function of the vehicle 104 based on instructions from the automated traffic system. An automated traffic system is a system that manages the traffic in a given area. This automated traffic system can instruct cars to drive in certain lanes, instruct cars to raise or lower their speed, instruct a car to change their route of travel, instruct cars to communicate with other cars, etc. To perform these functions, the traffic controller 8112 may register the vehicle 104 with the automated traffic system and then provide other information including the route of travel. The automated traffic system can return registration information and any required instructions. The communications between the automated traffic system and the traffic controller 8112 may be received and sent through a network traffic transceiver 8116.

[0252] The network traffic transceiver 8116 can be any present or future-developed device that can comprise a transmitter and/or a receiver, which may be combined and can share common circuitry or a single housing. The network traffic transceiver 8116 may communicate with the automated traffic system using any known or future-developed, protocol, standard, frequency, bandwidth range, etc. The

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network traffic transceiver 8116 enables the sending of information between the traffic controller 8112 and the automated traffic system.

[0253] The traffic controller 8112 can also communicate with another vehicle, which may be in physical proximity (i.e., within range of a wireless signal), using the vehicle-to-vehicle transceiver 8120. As with the network traffic transceiver 8116, the vehicle-to-vehicle transceiver 8120 can be any present or future-developed device that can comprise a transmitter and/or a receiver, which may be combined and can share common circuitry or a single housing. Generally, the vehicle-to-vehicle transceiver 8120 enables communication between the vehicle 104 and any other vehicle. These communications allow the vehicle 104 to receive traffic or safety information, control or be controlled by another vehicle, establish an alternative communication path to communicate with the automated traffic system, establish a node including two or more vehicle that can function as a unit, etc. The vehicle-to-vehicle transceiver 8120 may communicate with the other vehicles using any known or future-developed, protocol standard, frequency, bandwidth range, etc.

[0254] The traffic controller 8112 can control functions of the automobile controller 8104 and communicate with the location module 896. The location module 896 can provide current location information and route information that the traffic controller 8112 may then provide to the automated traffic system. The traffic controller 8112 may receive route adjustments from the automated traffic system that are then sent to the location module 896 to change the route. Further, the traffic controller 8112 can also send driving instructions to the automobile controller 8104 to change the driving characteristics of the vehicle 104. For example, the traffic controller 8112 can instruct the automobile controller 8104 to accelerate or decelerate to a different speed, change lanes, or perform another driving maneuver. The traffic controller 8112 can also manage vehicle-to-vehicle communications and store information about the communications or other information in the traffic information database 8124.

[0255] The traffic information database 8124 can be any type of database, such as relational, hierarchical, object-oriented, and/or the like. The traffic information database 8124 may reside on a storage medium local to (and/or resident in) the vehicle control system 204 or in the vehicle 104. The traffic information database 8124 may be adapted to store, update, and retrieve information about communications with other vehicles or any active instructions from the automated traffic system. This information may be used by the traffic controller 8112 to instruct or adjust the performance of driving maneuvers.

[0256] Fig. 9 illustrates an optional communications architecture where, the host device 908 may include one more routing profiles, permission modules, and rules that control how communications within the vehicle 104 are to occur. This communications architecture can be used in conjunction with the routing tables, rules and permissions associated with access point 456 and optional firewall 484, or can be in lieu thereof. For example, the host device 908 acts as a mobile hot spot to one or more other devices within vehicle 104, such as, other device 1 912, other device 2 916, other device 3 920, and other device N 924. Optionally, one or more of the other devices 912 can communicate directly with the host

device 908 which then provides Internet access to those devices 912 via the device 908. The host device 908 can act as a mobile hot spot for any one or more of the other devices 912, which may not need to communicate over the network/communications buses 224/404, but could instead connect directly to the host device 908 via, for example, NFC, Bluetooth®, WiFi, or the like. When the device 908 is acting as the host device, the device 908 can include one or more routing profiles, permissions, rules modules, and can also act as a firewall for the various inter and intra vehicle communications.

[0257] As will be appreciated, there could be alternative host devices, such as, host 904 which could also act as, for example, a co-host in association with device 908. Optionally, one or more of the routing profile, permission information, and rules could be shared between the co-host devices 904, 908, both of those devices being usable for Internet access for one or more of the other devices, 912-924. As will be appreciated, the other devices 912-924 need not necessarily connect to one or more of host device 908 and the other device 904 via a direct communications link, but could also interface with those devices 904, 908 utilizing the network /communications buses 224/404 associated with the vehicle100. As previously discussed, one or more of the other devices can connect to the network/communications buses 224/404 utilizing the various networks and/or buses discussed herein which would therefore enable, for example, regulation of the various communications based on the Ethernet zone that the other device 912 is associated with.

[0258] An embodiment of one or more modules that may be associated with the vehicle control system 204 may be as shown in Fig. 10. The modules can include a communication subsystem interface 1008 in communication with an operating system 1004. The communications may pass through a firewall 1044. The firewall 1044 can be any software that can control the incoming and outgoing communications by analyzing the data packets and determining whether the packets should be allowed through the firewall, based on applied rule set. A firewall 1044 can establish a "barrier" between a trusted, secure internal network and another network (e.g., the Internet) that is not assumed to be secure and trusted.

[0259] In some situations, the firewall 1044 may establish security zones that are implemented by running system services and/or applications in restricted user groups and accounts. A set of configuration files and callbacks may then be linked to an IP table firewall. The IP table firewall can be configured to notify a custom filter application at any of the layers of the Ethernet packet. The different users/group rights to access the system may include: system users, which may have exclusive right over all device firewall rules and running software; a big-brother user, which may have access to on board device (OBD) control data and may be able to communicate with the vehicle subsystem 328 and may be able to alter the parameters in the vehicle control system 204; a dealer user, which can have rights to read OBD data for diagnostics and repairs; a dashboard user, which can have rights to launch dashboard applications and/or authenticate guest users and change their permissions to trusted/friend/family, and can read but cannot write into OBD diagnostic data; a world wide web (WWW) data user, which can have HTTP rights to respond to HTTP requests (the HTTP requests also can target different user data, but

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may be filtered by default user accounts); a guest user, which may have no rights; a family/friend user, which may have rights to play media from the media subsystem 348 and/or to stream media to the media subsystem 348.

[0260] The operating system 1004 can be a collection of software that manages computer hardware resources and provides common services for applications and other programs. The operating system 1004 may schedule time-sharing for efficient use of the system. For hardware functions, such as input, output, and memory allocation, the operating system 1004 can act as an intermediary between applications or programs and the computer hardware. Examples of operating systems that may be deployed as operating system 1004 include Android, BSD, iOS, Linux, OS X, QNX, Microsoft Windows, Windows Phone, IBM z/OS, etc.

[0261] The operating system 1004 can include one or more sub-modules. For example, a desktop manager 1012 can manage one or more graphical user interfaces (GUI) in a desktop environment. Desktop GUIs can help the user to easily access and edit files. A command-line interface (CLI) may be used if full control over the operating system (OS) 1004 is required. The desktop manager 1012 is described further hereinafter.

[0262] A kernel 1028 can be a computer program that manages input/output requests from software and translates them into data processing instructions for the processor 304 and other components of the vehicle control system 204. The kernel 1028 is the fundamental component of the operating system 1004 that can execute many of the functions associated with the OS 1004.

[0263] The kernel 1028 can include other software functions, including, but not limited to, driver(s) 1056, communication software 1052, and/or Internet Protocol software 1048. A driver 1056 can be any computer program that operates or controls a particular type of device that is attached to a vehicle control system 204. A driver 1056 can communicate with the device through the bus 356 or communications subsystem 1008 to which the hardware connects. When a calling program invokes a routine in the driver 1056, the driver 1056 may issue one or more commands to the device. Once the device sends data back to the driver 1056, the driver 1056 may invoke routines in the original calling program. Drivers can be hardware-dependent and operating-system-specific. Driver(s) 1056 can provide the interrupt handling required for any necessary asynchronous time-dependent hardware interface.

[0264] The IP module 1048 can conduct any IP addressing, which may include the assignment of IP addresses and associated parameters to host interfaces. The address space may include networks and sub-networks. The IP module 1048 can perform the designation of network or routing prefixes and may conduct IP routing, which transports packets across network boundaries. Thus, the IP module 1048 may perform all functions required for IP multicast operations.

[0265] The communications module 1052 may conduct all functions for communicating over other systems or using other protocols not serviced by the IP module 1048. Thus, the communications module 1052 can manage multicast operations over other busses or networks not serviced by the IP module 1048. Further, the communications module 1052 may perform or manage communications to one or more

devices, systems, data stores, services, etc. that are in communication with the vehicle control system 204 or other subsystems through the firewall 1044. Thus, the communications module 1052 can conduct communications through the communication subsystem interface 1008.

[0266] A file system 1016 may be any data handling software that can control how data is stored and retrieved. The file system 1016 can separate the stored data into individual pieces, and giving each piece a name, can easily separate and identify the pieces of data. Each piece of data may be considered a "file". The file system 1016 can construct data structure and logic rules used to manage the information and the identifiers for the information. The structure and logic rules can be considered a "file system."

[0267] A device discovery daemon 1020 may be a computer program that runs as a background process that can discover new devices that connect with the network 356 or communication subsystem 1008 or devices that disconnect from the network 356 or communication subsystem 1008. The device discovery daemon 1020 can ping the network 356 (the local subnet) when the vehicle 104 starts, when a vehicle door opens or closes, or upon the occurrence of other events. Additionally or alternatively, the device discovery daemon 1020 may force Bluetooth®, USB, and/or wireless detection. For each device that responds to the ping, the device discovery daemon 1020 can populate the system data 208 with device information and capabilities, using any of one or more protocols, including one or more of, but not limited to, IPv6 Hop-by-Hop Option (HOPOPT), Internet Control Message Protocol (ICMP), Internet Group Management Protocol (IGMP), Gateway-to-Gateway Protocol (GGP), Internet Protocol (IP), Internet Stream Protocol (ST), Transmission Control Protocol (TCP), Exterior Gateway Protocol (EGP), CHAOS, User Datagram Protocol (UDP), etc.

[0268] For example, the device discovery daemon 1020 can determine device capabilities based on the opened ports the device exposes. If a camera exposes port 80, then the device discovery daemon 1020 can determine that the camera is using a Hypertext Transfer Protocol (HTTP). Alternatively, if a device is supporting Universal Plug and Play (UPnP), the system data 208 can include more information, for example, a camera control universal resource locator (URL), a camera zoom URL, etc. When a scan stops, the device discovery daemon 1020 can trigger a dashboard refresh to ensure the user interface reflects the new devices on the desktop.

[0269] A desktop manager 1012 may be a computer program that manages the user interface of the vehicle control system 204. The desktop environment may be designed to be customizable and allow the definition of the desktop configuration look-and-feel for a wide range of appliances or devices from computer desktops, mobile devices, computer tablets, etc. Launcher(s), panels, desktop areas, the desktop background, notifications, panes, etc., can be configured from a dashboard configuration file managed by the desktop manager 1012. The graphical elements in which the desktop manager 1012 controls can include launchers, the desktop, notification bars, etc.

[0270] The desktop may be an area of the display where the applications are running. The desktop can have a custom background. Further, the desktop may be divided into two or more areas. For example, the desktop may be divided into an upper half of a display and a lower half of the display. Each

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application can be configured to run in a portion of the desktop. Extended settings can be added to the desktop configuration file, such that, some objects may be displayed over the whole desktop or in custom size out of the context of the divided areas.

[0271] The notification bar may be a part of a bar display system, which may provide notifications by displaying, for example, icons and/or pop-up windows that may be associated with sound notifications. The notification mechanism can be designed for separate plug-ins, which run in separate processes and may subscribe to a system Intelligent Input Bus (IBUS)/D-BUS event service. The icons on the notifications bar can be accompanied with application short-cuts to associated applications, for example, a Bluetooth® manager, a USB manager, radio volume and or tone control, a security firewall, etc.

[0272] The desktop manager 1012 may include a windows manager 1032, an application launcher 1036, and/or a panel launcher 1040. Each of these components can control a different aspect of the user interface. The desktop manager 1012 can use a root window to create panels that can include functionality for one or more of, but not limited to: launching applications, managing applications, providing notifications, etc.

[0273] The windows manager 1032 may be software that controls the placement and appearance of windows within a graphical user interface presented to the user. Generally, the windows manager 1032 can provide the desktop environment used by the vehicle control system 204. The windows manager 1032 can communicate with the kernel 1028 to interface with the graphical system that provides the user interface(s) and supports the graphics hardware, pointing devices, keyboard, touch-sensitive screens, etc. The windows manager 1032 may be a tiling window manager (i.e., a window manager with an organization of the screen into mutually non-overlapping frames, as opposed to a coordinate-based stacking of overlapping objects (windows) that attempts to fully emulate the desktop metaphor). The windows manager 1032 may read and store configuration files, in the system data 208, which can control the position of the application windows at precise positions.

[0274] An application manager 1036 can control the function of any application over the lifetime of the process. The process or application can be launched from a panel launcher 1040 or from a remote console. The application manager 1036 can intercept the process name and may take appropriate action to manage that process. If the process is not running, the application manager 1036 can load the process and may bring the process to a foreground in a display. The application manager 1036 may also notify the windows manager 1032 to bring the associated window(s) to a top of a window stack for the display. When a process starts from a shell or a notification out of the context of the desktop, the application manager 1036 can scan files to match the process name with the entry name provided. When a match is found, the application manager 1036 can configure the process according to a settings file.

[0275] In some situations, the application manager 1036 may restrict an application as singleton (i.e., restricts the instantiation of a class to one object). If an application is already running and the application manager 1036 is asked to run the application again, the application manager 1036 can bring the running process to a foreground on a display. There can be a notification event exchange between the windows

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manager 1032 and the application manager 1036 for activating the appropriate window for the foreground process. Once an application is launched, the application may not be terminated or killed. The application can be sent to the background, except, possibly, for some applications (e.g., media player, Bluetooth®, notifications, etc.), which may be given a lowest process priority.

[0276] The panel launcher 1040 can be a widget configured to be placed along a portion of the display. The panel launcher 1040 may be built from desktop files from a desktop folder. The desktop folder location can be configured by a configuration file stored in system data 208. The panel launcher 1040 can allow for the launching or executing of applications or processes by receiving inputs from a user interface to launch programs.

[0277] A desktop plugin 1024 may be a software component that allows for customization of the desktop or software interface through the initiation of plug-in applications.

[0278] One or more gestures used to interface with the vehicle control system 204 may be as described in conjunction with Fig. 11A through 11K. Figs. 11A through 11H depict various graphical representations of gesture inputs that may be recognized by the devices 212, 248. The gestures may be performed not only by a user's body part, such as a digit, but also by other devices, such as a stylus, that may be sensed by the contact sensing portion(s) of a screen associated with the device 212, 248. In general, gestures are interpreted differently, based on where the gestures are performed (either directly on a display or in a gesture capture region). For example, gestures in a display may be directed to a desktop or application, and gestures in a gesture capture region may be interpreted as for the system.

[0279] With reference to Figs. 11A-11H, a first type of gesture, a touch gesture 1120, is substantially stationary on a portion (e.g., a screen, a display, etc.) of a device 212, 248 for a selected length of time. A circle 1128 represents a touch or other contact type received at particular location of a contact sensing portion of the screen. The circle 1128 may include a border 1132, the thickness of which indicates a length of time that the contact is held substantially stationary at the contact location. For instance, a tap 1120 (or short press) has a thinner border 1132A than the border 1132B for a long press 1124 (or for a normal press). The long press 1124 may involve a contact that remains substantially stationary on the screen for longer time period than that of a tap 1120. As will be appreciated, differently defined gestures may be registered depending upon the length of time that the touch remains stationary prior to contact cessation or movement on the screen.

[0280] With reference to Fig. 11C, a drag gesture 1100 on the screen is an initial contact (represented by circle 1128) with contact movement 1136 in a selected direction. The initial contact 1128 may remain stationary on the screen for a certain amount of time represented by the border 1132. The drag gesture typically requires the user to contact an icon, window, or other displayed image at a first location followed by movement of the contact in a drag direction to a new second location desired for the selected displayed image. The contact movement need not be in a straight line but have any path of movement so long as the contact is substantially continuous from the first to the second locations.

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[0281] With reference to Fig. 11D, a flick gesture 1104 on the screen is an initial contact (represented by circle 1128) with truncated contact movement 1136 (relative to a drag gesture) in a selected direction. A flick may have a higher exit velocity for the last movement in the gesture compared to the drag gesture. The flick gesture can, for instance, be a finger snap following initial contact. Compared to a drag gesture, a flick gesture generally does not require continual contact with the screen from the first location of a displayed image to a predetermined second location. The contacted displayed image is moved by the flick gesture in the direction of the flick gesture to the predetermined second location. Although both gestures commonly can move a displayed image from a first location to a second location, the temporal duration and distance of travel of the contact on the screen is generally less for a flick than for a drag gesture.

[0282] With reference to Fig. 11E, a pinch gesture 1108 on the screen is depicted. The pinch gesture 1108 may be initiated by a first contact 1128A to the screen by, for example, a first digit and a second contact 1128B to the screen by, for example, a second digit. The first and second contacts 1128A,B may be detected by a common contact sensing portion of a common screen, by different contact sensing portions of a common screen, or by different contact sensing portions of different screens. The first contact 1128A is held for a first amount of time, as represented by the border 1132A, and the second contact 1128B is held for a second amount of time, as represented by the border 1132B. The first and second amounts of time are generally substantially the same, and the first and second contacts 1128A,B generally occur substantially simultaneously. The first and second contacts 1128A,B generally also include corresponding first and second contact movements 1136A,B, respectively. The first and second contact movements 1136A,B are generally in opposing directions. Stated another way, the first contact movement 1136A is towards the second contact 1136B, and the second contact movement 1136B is towards the first contact 1136A. More simply stated, the pinch gesture 1108 may be accomplished by a user's digits touching the screen in a pinching motion.

[0283] With reference to Fig. 11F, a spread gesture 1110 on the screen is depicted. The spread gesture 1110 may be initiated by a first contact 1128A to the screen by, for example, a first digit, and a second contact 1128B to the screen by, for example, a second digit. The first and second contacts 1128A,B may be detected by a common contact sensing portion of a common screen, by different contact sensing portions of a common screen, or by different contact sensing portions of different screens. The first contact 1128A is held for a first amount of time, as represented by the border 1132A, and the second contact 1128B is held for a second amount of time, as represented by the border 1132B. The first and second amounts of time are generally substantially the same, and the first and second contacts 1128A,B generally occur substantially simultaneously. The first and second contacts 1128A,B generally also include corresponding first and second contact movements 1136A,B, respectively. The first and second contact movements 1136A,B are generally in an opposing direction. Stated another way, the first and second contact movements 1136A,B are away from the first and second contacts 1128A,B. More simply

stated, the spread gesture 1110 may be accomplished by a user's digits touching the screen in a spreading motion.

[0284] The above gestures may be combined in any manner, such as those shown by Figs. 11G and 11H, to produce a determined functional result. For example, in Fig. 11G a tap gesture 1120 is combined with a drag or flick gesture 1112 in a direction away from the tap gesture 1120. In Fig. 11H, a tap gesture 1120 is combined with a drag or flick gesture 1116 in a direction towards the tap gesture 1120.

[0285] The functional result of receiving a gesture can vary depending on a number of factors, including a state of the vehicle 104, display, or screen of a device, a context associated with the gesture, or sensed location of the gesture, etc. The state of the vehicle 104 commonly refers to one or more of a configuration of the vehicle 104, a display orientation, and user and other inputs received by the vehicle 104. Context commonly refers to one or more of the particular application(s) selected by the gesture and the portion(s) of the application currently executing, whether the application is a single- or multi-screen application, and whether the application is a multi-screen application displaying one or more windows. A sensed location of the gesture commonly refers to whether the sensed set(s) of gesture location coordinates are on a touch sensitive display or a gesture capture region of a device 212, 248, whether the sensed set(s) of gesture location coordinates are associated with a common or different display, or screen, or device 212, 248, and/or what portion of the gesture capture region contains the sensed set(s) of gesture location coordinates.

[0286] A tap, when received by a touch sensitive display of a device 212, 248, can be used, for instance, to select an icon to initiate or terminate execution of a corresponding application, to maximize or minimize a window, to reorder windows in a stack, and/or to provide user input such as by keyboard display or other displayed image. A drag, when received by a touch sensitive display of a device 212, 248, can be used, for instance, to relocate an icon or window to a desired location within a display, to reorder a stack on a display, or to span both displays (such that the selected window occupies a portion of each display simultaneously). A flick, when received by a touch sensitive display of a device 212, 248 or a gesture capture region, can be used to relocate a window from a first display to a second display or to span both displays (such that the selected window occupies a portion of each display simultaneously). Unlike the drag gesture, however, the flick gesture is generally not used to move the displayed image to a specific user-selected location but to a default location that is not configurable by the user.

[0287] The pinch gesture, when received by a touch sensitive display or a gesture capture region of a device 212, 248, can be used to minimize or otherwise increase the displayed area or size of a window (typically when received entirely by a common display), to switch windows displayed at the top of the stack on each display to the top of the stack of the other display (typically when received by different displays or screens), or to display an application manager (a "pop-up window" that displays the windows in the stack). The spread gesture, when received by a touch sensitive display or a gesture capture region of a device 212, 248, can be used to maximize or otherwise decrease the displayed area or size of a window, to switch windows displayed at the top of the stack on each display to the top of the stack of the

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other display (typically when received by different displays or screens), or to display an application manager (typically when received by an off-screen gesture capture region on the same or different screens).

[0288] The combined gestures of Fig. 11G, when received by a common display capture region in a common display or screen of a device 212, 248, can be used to hold a first window location constant for a display receiving the gesture while reordering a second window location to include a window in the display receiving the gesture. The combined gestures of Fig. 11H, when received by different display capture regions in a common display or screen of a device 212, 248 or in different displays or screens of one more devices 212, 248, can be used to hold a first window location for a display receiving the tap part of the gesture while reordering a second window location to include a window in the display receiving the flick or drag gesture. Although specific gestures and gesture capture regions in the preceding examples have been associated with corresponding sets of functional results, it is to be appreciated that these associations can be redefined in any manner to produce differing associations between gestures and/or gesture capture regions and/or functional results.

[0289] Gestures that may be completed in three-dimensional space and not on a touch sensitive screen or gesture capture region of a device 212, 248 may be as shown in Figs. 11I-11K. The gestures may be completed in an area where a sensor, such as an optical sensor, infrared sensor, or other type of sensor, may detect the gesture. For example, the gesture 1140 in Fig. 11I may be executed by a person when the person opens their hand 1164 and moves their hand in a back and forth direction 1148 as a gesture 1140 to complete some function with the vehicle 104. For example gesture 1140 may change the station of the radio in the vehicle 104. The sensors 242 may both determine the configuration of the hand 1164 and the vector of the movement. The vector and hand configuration can be interpreted to mean certain things to the vehicle control system 204 and produce different results.

[0290] In another example of a gesture 1152 in Fig. 11J, a user may configure their hand 1164 to extend two fingers and move the hand 1164 in an up and down operation 1156. This gesture 1152 may control the volume of the radio or some other function. For instance, this gesture 1152 may be configured to place the vehicle in a "valet" mode to, among other things, restrict access to certain features associated with the vehicle. Again, the sensors 242 may determine how the person has configured their hand 1164, and the vector of the movement. In another example of a gesture 1160 shown in Fig. 11K, a user may extend their middle three fingers at an angle that is substantially 45° for vertical from straight vertical and circle the hand in a counter-clockwise motion 1166. This gesture 1160 may cause the automobile to change the heat setting or do some other function. As can be understood by one skilled in the art, the configurations of the hand and the types of movement are variable. Thus, the user may configure the hand 1164 in any way imaginable and may also move that hand 1164 in any direction with any vector in three-dimensional space.

[0291] The gestures 1140, 1152, 1160, as shown in Figs. 11I-11K, may occur in a predetermined volume of space within the vehicle 104. For example, a sensor may be configured to identify such

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gestures 1140, 1152, 1160 between the front passenger's and front driver's seats over a console area within the passenger compartment of the vehicle 104. The gestures 1140, 1152, 1160 may be made within area 1 508A between zones A 512A and B 512B. However, there may be other areas 508 where a user may use certain gestures, where sensors 242 may be able to determine a certain function is desired. Gestures that may be similar but used in different areas within the vehicle 104 may cause different functions to be performed. For example, the gesture 1140 in Fig. 11I, if used in zone E 512E, may change the heat provided in zone E 512E, but may change the station of a radio if used in zone A 512A and/or zone B 512B. Further, the gestures may be made with other body parts or, for example, different expressions of a person's face and may be used to control functions in the vehicle 104. Also, the user may use two hands in some circumstances or do other types of physical movements that can cause different reactions in the vehicle 104.

[0292] Figs. 12A-12D show various embodiments of a data structure 1200 to store different settings. The data structure 1200 may include one or more of data files or data objects 1204, 1250, 1270, 1280. Thus, the data structure 1200 may represent different types of databases or data storage, for example, object-oriented data bases, flat file data structures, relational database, or other types of data storage arrangements. Embodiments of the data structure 1200 disclosed herein may be separate, combined, and/or distributed. As indicated in Figs. 12A-12D, there may be more or fewer portions in the data structure 1200, as represented by ellipses 1244. Further, there may be more or fewer files in the data structure 1200, as represented by ellipses 1248.

[0293] Referring to Fig. 12A, a first data structure is shown. The data file 1204 may include several portions 1208-1242 representing different types of data. Each of these types of data may be associated with a user, as shown in portion 1208.

[0294] There may be one or more user records 1240 and associated data stored within the data file 1204. As provided herein, the user can be any person that uses or rides within the vehicle or conveyance 104. The user may be identified in portion 1212. For the vehicle 104, the user may include a set of one or more features that may identify the user. These features may be the physical characteristics of the person that may be identified by facial recognition or some other type of system. In other situations, the user may provide a unique code to the vehicle control system 204 or provide some other type of data that allows the vehicle control system 204 to identify the user. The features or characteristics of the user are then stored in portion 1212.

[0295] Each user, identified in portion 1208, may have a different set of settings for each area 508 and/or each zone 512 within the vehicle 104. Thus, each set of settings may also be associated with a predetermined zone 512 or area 508. The zone 512 is stored in portion 1220, and the area 508 is stored in portion 1216.

[0296] One or more settings may be stored in portion 1224. These settings 1224 may be the configurations of different functions within the vehicle 104 that are specified by or for that user. For example, the settings 1224 may be the position of a seat, the position of a steering wheel, the position of

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accelerator and/or brake pedals, positions of mirrors, a heating/cooling setting, a radio setting, a cruise control setting, or some other type of setting associated with the vehicle 104. Further, in vehicles adapted to have a configurable console or a configurable dash or heads-up display, the settings 1224 may also provide for how that heads-up display, dash, or console are configured for this particular user.

[0297] Each setting 1224 may be associated with a different area 508 or zone 512. Thus, there may be more settings 1224 for when the user is the driver and in zone A 512A, 512A, of area 1, 508A. However, there may be similar settings 1224 among the different zones 512 or areas 508 as shown in portion 1224. For example, the heating or radio settings for the user may be similar in every zone 512.

[0298] The sensors 242 within the vehicle 104 may be able to either obtain or track health data in portion 1228. Health data 1228 may include any type of physical characteristic associated with the user. For example, a heart rate, a blood pressure, a temperature, or other types of heath data may be obtained and stored in portion 1228. The user may have this health data tracked over a period of time to allow for statistical analysis of the user's health while operating the vehicle 104. In this way, if some function of the user's health deviates from a norm (e.g., a baseline measurement, average measurements taken over time, and the like), the vehicle 104 may be able to determine there is a problem with the person and react to that data.

[0299] One or more gestures may be stored in portion 1232. Thus, the gestures used and described in conjunction Fig. 11A through 11K may be configurable. These gestures may be determined or created by the user and stored in portion 1132. A user may have different gestures for each zone 512 or area 508 within the vehicle. The gestures that do certain things while driving may do other things while in a different area 508 of the vehicle 104. Thus, the user may use a first set of gestures while driving and a second set while a passenger. Further, one or more users may share gestures as shown in portion 1232. Each driver may have a common set of gestures that they use in zone A 512A, 512A. Each of these gestures may be determined or captured and then stored with their characteristics (e.g., vector, position of gesture, etc.) in portion 1232.

[0300] One or more sets of safety parameters may be stored in portion 1236. Safety parameters 1236 may be common operating characteristics for this driver/passenger or for all drivers/passengers that if deviated from may determine there is a problem with the driver/passenger or the vehicle 104. For example, a certain route may be taken repeatedly and an average speed or mean speed may be determined. If the mean speed deviates by some number of standard deviations, a problem with the vehicle 104 or the user may be determined. In another example, the health characteristics or driving experience of the user may be determined. If the user drives in a certain position where their head occupies a certain portion of three-dimensional space within the vehicle 104, the vehicle control system 204 may determine that the safety parameter includes the users face or head being within this certain portion of the vehicle interior space. If the user's head deviates from that interior space for some amount of time, the vehicle control system 204 can determine that something is wrong with the driver and change the function or operation of the vehicle 104 to assist the driver. This may happen, for example, when a

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user falls asleep at the wheel. If the user's head droops and no longer occupies a certain three dimensional space, the vehicle control system 204 can determine that the driver has fallen asleep and may take control of the operation of the vehicle 204 and the automobile controller 8104 may steer the vehicle 204 to the side of the road. In other examples, if the user's reaction time is too slow or some other safety parameter is not nominal, the vehicle control system 204 may determine that the user is inebriated or having some other medical problem. The vehicle control system 204 may then assume control of the vehicle to ensure that the driver is safe.

[0301] Information corresponding to a user and/or a user profile may be stored in the profile information portion 1238. For example, the profile information 1238 may include data relating to at least one of current data, historical data, a user preference, user habit, user routine, observation, location data (e.g., programmed and/or requested destinations, locations of parking, routes traveled, average driving time, etc.), social media connections, contacts, brand recognition (e.g., determined via one or more sensors associated with the vehicle 104, a device 212, 248, etc.), audible recording data, text data, email data, political affiliation, preferred retail locations/sites (e.g., physical locations, web-based locations, etc.), recent purchases, behavior associated with the aforementioned data, and the like. The data in the profile information portion 1238 may be stored in one or more of the data structures 1200 provided herein. As can be appreciated, these one or more data structures may be stored in one or more memory locations. Examples of various memory locations are described in conjunction with Fig. 2.

[0302] One or more additional data fields may be stored in the linked data portion 1242 as data and/or locations of data. The linked data 1242 may include at least one of pointers, addresses, location identification, data source information, and other information corresponding to additional data associated with the data structure 1200. Optionally, the linked data portion 1242 may refer to data stored outside of a particular data structure 1200. For example, the linked data portion 1242 may include a link/locator to the external data. Continuing this example, the link/locator may be resolved (e.g., via one or more of the methods and/or systems provided herein, etc.) to access the data stored outside of the data structure 1200. Additionally or alternatively, the linked data portion 1242 may include information configured to link the data objects 1204 to other data files or data objects 1250, 1270, 1280. For instance, the data object 1204 relating to a user may be linked to at least one of a device data object 1250, a vehicle system data object 1270, and a vehicle data object 1280, to name a few.

[0303] An embodiment of a data structure 1200 to store information associated with one or more devices is shown in Fig. 12B. The data file 1250 may include several portions 1216-1262 representing different types of data. Each of these types of data may be associated with a device, as shown in portion 1252.

[0304] There may be one or more device records 1250 and associated data stored within the data file 1250. As provided herein, the device may be any device that is associated with the vehicle 104. For example, a device may be associated with a vehicle 104 when that device is physically located within the interior space 108 of the vehicle 104. As another example, a device may be associated with a vehicle 104

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when the device registers with the vehicle 104. Registration may include pairing the device with the vehicle 104 and/or one or more of the vehicle systems (e.g., as provided in Fig. 3). In some cases, the registration of a device with a vehicle 104 may be performed manually and/or automatically. An example of automatic registration may include detecting, via one or more of the vehicle systems, that a device is inside the vehicle 104. Upon detecting that the device is inside the vehicle 104, the vehicle system may identify the device and determine whether the device is or should be registered. Registration may be performed outside of a vehicle 104 via providing a unique code to the vehicle 104 and/or at least one of the vehicle systems.

[0305] The device may be identified in portion 1256. Among other things, the device identification may be based on the hardware associated with the device (e.g., Media Access Control (MAC) address, Burned-In Address (BIA), Ethernet Hardware Address (EHA), physical address, hardware address, and the like).

[0306] Optionally, a device may be associated with one or more users. For example, a tablet and/or graphical user interface (GUI) associated with the vehicle 104 may be used by multiple members of a family. For instance, the GUI may be located in a particular area 508 and/or zone 512 of the vehicle 104. Continuing this example, when a family member is located in the particular area 508 and/or zone 512, the device may include various settings, features, priorities, capabilities, and the like, based on an identification of the family member. The user may be identified in portion 1254. For the device, the user identification portion 1254 may include a set of one or more features that may identify a particular user. These features may be the physical characteristics of the person that may be identified by facial recognition, or some other type of system, associated with the device and/or the vehicle 104. Optionally, the user may provide a unique code to the device, or provide some other type of data, that allows the device to identify the user. The features or characteristics of the user are then stored in portion 1254.

[0307] Each device identified in the device identification portion 1256 may have a different set of settings for each area 508 and/or each zone 512, and/or each user of the device. Thus, each set of settings may also be associated with a predetermined zone 512, area 508, and/or user. The zone 512 is stored in portion 1220 and the area 508 is stored in portion 1216.

[0308] One or more settings may be stored in portion 1224. These settings 1224 may be similar and/or identical to those previously described. Further, the settings 1224 may also provide for how a device is configured for a particular user. Each setting 1224 may be associated with a different area 508 or zone 512. Thus, there may be more restrictive settings 1224 (e.g., restricted multimedia, texting, limited access to device functions, and the like) for the device when the user is the driver and in zone A 512A, 512A, of area 1, 508A. However, when the user is in another zone 512 or area 508, for example, where the user is not operating a vehicle 104, the settings 1224 may provide unrestricted access to one or more features of the device (e.g., allowing texting, multimedia, etc.).

[0309] Optionally, the capabilities of a device may be stored in portion 1258. Examples of device capabilities may include, but are not limited to, a communications ability (e.g., via wireless network,

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EDGE, 3G, 4G, LTE, wired, Bluetooth®, Near Field Communications (NFC), Infrared (IR), etc.), hardware associated with the device (e.g., cameras, gyroscopes, accelerometers, touch interface, processor, memory, display, etc.), software (e.g., installed, available, revision, release date, etc.), firmware (e.g., type, revision, etc.), operating system, system status, and the like. Optionally, the various capabilities associated with a device may be controlled by one or more of the vehicle systems provided herein. Among other things, this control allows the vehicle 104 to leverage the power and features of various devices to collect, transmit, and/or receive data.

[0310] One or more priorities may be stored in portion 1260. The priority may correspond to a value, or combination of values, configured to determine how a device interacts with the vehicle 104 and/or its various systems. The priority may be based on a location of the device (e.g., as stored in portions 1216, 1220). A default priority can be associated with each area 508 and/or zone 512 of a vehicle 104. For example, the default priority associated with a device found in zone 1 512A of area 1 508A (e.g., a vehicle operator position) may be set higher than an (or the highest of any) alternative zone 512 or area 508 of the vehicle 104. Continuing this example, the vehicle 104 may determine that, although other devices are found in the vehicle, the device, having the highest priority, controls features associated with the vehicle 104. These features may include vehicle control features, critical and/or non-critical systems, communications, and the like. Additionally or alternatively, the priority may be based on a particular user associated with the device. Optionally, the priority may be used to determine which device will control a particular signal in the event of a conflict.

[0311] Registration data may be stored in portion 1262. As described above, when a particular device registers with a vehicle 104, data related to the registration may be stored in the registration data portion 1262. Such data may include, but is not limited to, registration information, registration codes, initial registration time, expiration of registration, registration timers, and the like. Optionally, one or more systems of the vehicle 104 may refer to the registration data portion 1262 to determine whether a device has been previously registered with the vehicle 104. As shown in Fig. 12B, User 4 of Device 2 has not been registered. In this case, the registration data field 1262, for this user, may be empty, contain a null value, or other information/indication that there is no current registration information associated with the user.

[0312] Additionally or alternatively, the data structure 1200 may include a profile information portion 1238 and/or a linked data portion 1242. Although the profile information portion 1238 and/or the linked data portion 1242 may include different information from that described above, it should be appreciated that the portions 1238, 1242 may be similar, or identical, to those as previously disclosed.

[0313] An embodiment of a data structure 1200 to store information associated with one or more vehicle systems is shown in Fig. 12C. The data file 1270 may include several portions 1216-1279 representing different types of data. Each of these types of data may be associated with a vehicle system, as shown in portion 1272.

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[0314] There may be one or more system records 1270 and associated data stored within the data file 1270. As provided herein, the vehicle systems may be any system and/or subsystem that is associated with the vehicle 104. Examples of various systems are described in conjunction with Fig. 3 and other related figures (e.g., systems 324-352, etc.). One example of a system associated with the vehicle 104 is the vehicle control system 204. Other systems may include communications subsystems 344, vehicle subsystems 328, and media subsystems 348, to name a few. It should be appreciated that the various systems may be associated with the interior space 108 and/or the exterior of the vehicle 104.

[0315] Each system may include one or more components. The components may be identified in portion 1274. Identification of the one or more components may be based on hardware associated with the component. This identification may include hardware addresses similar to those described in conjunction with the devices of Fig. 12B. Additionally or alternatively, a component can be identified by one or more signals sent via the component. Such signals may include an Internet Protocol (IP), or similar, address as part of the signal. Optionally, the signal may identify the component sending the signal via one or more of a header, a footer, a payload, and/or an identifier associated with the signal (e.g., a packet of a signal, etc.).

[0316] Each system and/or component may include priority type information in portion 1276. Among other things, the priority type information stored in portion 1276 may be used by the various methods and systems provided herein to differentiate between critical and non-critical systems. Non-limiting examples of critical systems may correspond to those systems used to control the vehicle 104, such as, steering control, engine control, throttle control, braking control, and/or navigation informational control (e.g., speed measurement, fuel measurement, etc.) Non-critical systems may include other systems that are not directly related to the control of the vehicle 104. By way of example, non-critical systems may include media presentation, wireless communications, comfort settings systems (e.g., climate control, seat position, seat warmers, etc.), and the like. Although examples of critical and/or non-critical systems are provided above, it should be appreciated that the priority type of a system may change (e.g., from critical to non-critical, from non-critical to critical, etc.) depending on the scenario. For instance, although the interior climate control system may be classified as a non-critical system at a first point in time, it may be subsequently classified as a critical system when a temperature inside/outside of the vehicle 104 is measured at a dangerous level (e.g., sub-zero Fahrenheit, greater than 90-degrees Fahrenheit, etc.). As such, the priority type may be associated with temperature conditions, air quality, times of the day, condition of the vehicle 104, and the like.

[0317] Each system may be associated with a particular area 508 and/or zone 512 of a vehicle 104. Among other things, the location of a system may be used to assess a state of the system and/or provide how the system interacts with one or more users of the vehicle 104. As can be appreciated each system may have a different set of settings for each area 508 and/or each zone 512, and/or each user of the system. Thus, each set of settings may also be associated with a predetermined zone 512, area 508, system, and/or user. The zone 512 is stored in portion 1220 and the area 508 is stored in portion 1216.

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[0318] One or more settings may be stored in portion 1224. These settings 1224 may be similar and/or identical to those previously described. Further, the settings 1224 may also provide for how a system is configured for a particular user. Each setting 1224 may be associated with a different area 508 or zone 512. For instance, a climate control system may be associated with more than one area 508 and/or zone 512. As such, a first user seated in zone 1 512A of area 1 508A may store settings related to the climate control of that zone 512A that are different from other users and/or zones 512 of the vehicle 104. Optionally, the settings may not be dependent on a user. For instance, specific areas 508 and/or zones 512 of a vehicle 104 may include different, default, or the same settings based on the information stored in portion 1224.

[0319] The various systems and/or components may be able to obtain or track health status data of the systems and/or components in portion 1278. The health status 1278 may include any type of information related to a state of the systems. For instance, an operational condition, manufacturing date, update status, revision information, time in operation, fault status, state of damage detected, inaccurate data reporting, and other types of component/system health status data may be obtained and stored in portion 1278.

[0320] Each component and/or system may be configured to communicate with users, systems, servers, vehicles, third parties, and/or other endpoints via one or more communication type. At least one communication ability and/or type associated with a system may be stored in the communication type portion 1279. Optionally, the communication types contained in this portion 1279 may be ordered in a preferential order of communication types. For instance, a system may be configured to preferably communicate via a wired communication protocol over one or more wired communication channels (e.g., due to information transfer speeds, reliability, and the like). However, in this instance, if the one or more wired communication channels fail, the system may transfer information via an alternative communication protocol and channel (e.g., a wireless communication protocol and wireless communication channel, etc.). Among other things, the methods and systems provided herein may take advantage of the information stored in the communication type portion 1279 to open available communication channels in the event of a communication channel failure, listen on other ports for information transmitted from the systems, provide a reliability rating based on the number of redundant communication types for each component, and more. Optionally, a component or system may be restricted from communicating via a particular communication type (e.g., based on rules, traffic, critical/non-critical priority type, and the like). In this example, the component or system may be forced by the vehicle control system 204 to use an alternate communication type where available, cease communications, or store communications for later transfer.

[0321] Additionally or alternatively, the data structure 1200 may include a profile information portion 1238 and/or a linked data portion 1242. Although the profile information portion 1238 and/or the linked data portion 1242 may include different information from that described above, it should be appreciated that the portions 1238, 1242 may be similar, or identical, to those as previously disclosed.

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[0322] Referring now to Fig. 12D, a data structure 1200 is shown optionally. The data file 1280 may include several portions 1216-1286 representing different types of data. Each of these types of data may be associated with a vehicle, as shown in portion 1282.

[0323] There may be one or more vehicle records 1280 and associated data stored within the data file 1282. As provided herein, the vehicle 104 can be any vehicle or conveyance 104 as provided herein. The vehicle 104 may be identified in portion 1282. Additionally or alternatively, the vehicle 104 may be identified by one or more systems and/or subsystems. The various systems of a vehicle 104 may be identified in portion 1284. For example, various features or characteristics of the vehicle 104 and/or its systems may be stored in portion 1284. Optionally, the vehicle 104 may be identified via a unique code or some other type of data that allows the vehicle 104 to be identified.

[0324] Each system may be associated with a particular area 508 and/or zone 512 of a vehicle 104. Among other things, the location of a system may be used to assess a state of the system and/or provide how the system interacts with one or more users of the vehicle 104. As can be appreciated each system may have a different set of settings for each area 508 and/or each zone 512, and/or each user of the system. Thus, each set of settings may also be associated with a predetermined zone 512, area 508, system, and/or user. The zone 512 is stored in portion 1220 and the area 508 is stored in portion 1216.

[0325] One or more settings may be stored in portion 1224. These settings 1224 may be similar and/or identical to those previously described. Further, the settings 1224 may also provide for how a vehicle and/or its systems are configured for one or more users. Each setting 1224 may be associated with a different area 508 or zone 512. Optionally, the settings may not be dependent on a particular user. For instance, specific areas 508 and/or zones 512 of a vehicle 104 may include different, default, or the same settings based on the information stored in portion 1224.

[0326] The various systems and/or components may be able to obtain or track health status data of the systems and/or components in portion 1278. The health status 1278 may include any type of information related to a state of the systems. For instance, an operational condition, manufacturing date, update status, revision information, time in operation, fault status, state of damage detected, inaccurate data reporting, and other types of component/system health status data may be obtained and stored in portion 1278.

[0327] One or more warnings may be stored in portion 1286. The warnings data 1286 may include warning generated by the vehicle 104, systems of the vehicle 104, manufacturer of the vehicle, federal agency, third party, and/or a user associated with the vehicle. For example, several components of the vehicle may provide health status information (e.g., stored in portion 1278) that, when considered together, may suggest that the vehicle 104 has suffered some type of damage and/or failure. Recognition of this damage and/or failure may be stored in the warnings data portion 1286. The data in portion 1286 may be communicated to one or more parties (e.g., a manufacturer, maintenance facility, user, etc.). In another example, a manufacturer may issue a recall notification for a specific vehicle 104, system of a vehicle 104, and/or a component of a vehicle 104. It is anticipated that the recall notification may be

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stored in the warning data field 1286. Continuing this example, the recall notification may then be communicated to the user of the vehicle 104 notifying the user of the recall issued by the manufacturer.

[0328] Additionally or alternatively, the data structure 1200 may include a profile information portion 1238 and/or a linked data portion 1242. Although the profile information portion 1238 and/or the linked data portion 1242 may include different information from that described above, it should be appreciated that the portions 1238, 1242 may be similar, or identical, to those as previously disclosed.

[0329] An embodiment of a method 1300 for storing settings for a user 216 associated with vehicle 104 is shown in Fig. 13. While a general order for the steps of the method 1300 is shown in Fig. 13, the method 1300 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 13. Generally, the method 1300 starts with a start operation 1304 and ends with an end operation 1336. The method 1300 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1300 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-12.

[0330] A person may enter the vehicle space 108. One or more sensors 242 may then identify that a person is sitting within the vehicle 104, in step 1308. For example, sensors 242 in a seat, may determine that some new amount of weight has been registered. The amount of weight may fall within predetermined parameters (e.g., over a threshold, in a specific range, etc.). This weight may then be determined to be a person by one or more optical or other sensors 242. The vehicle control system 204 may then determine that a person is in a certain zone 512 or area 508. For example, the sensors 242 may send signals to the vehicle controls system 204 that an event has occurred. This information may be sent to the vehicle control system processor 304 to determine the zone 512 and area 508 where the event occurred. Further, the vehicle control system 204 may then identify the person, in step 1312.

[0331] The vehicle control system 204 can receive the information from the sensors 242 and use that information to search the database 1200 that may be stored within the system data 208. The sensor data may be compared to ID characteristics 1212 to determine if the person has already been identified. The vehicle control system 204 may also send the characteristic data from the sensors to the communication network 224 to a server 228 to compare the sensor data to stored data 232 that may be stored in a cloud system. The person's features can be compared to stored features 1212 to determine if the person in the vehicle 104 can be identified.

[0332] If the person has been identified previously and their characteristics stored in portion 1212, the method 1300 proceeds YES to step 1316 where that person may be identified. In identifying a person, the information associated with that person 1240 may be retrieved and provided to the vehicle control system 204 for further action. If a person cannot be identified by finding their sensor characteristics in portion 1212, the method 1300 proceeds NO to step 1320. In step 1320, the vehicle control system 204, using an application, may create a new record in table 1200 for the user. This new record may store a user identifier and their characteristics 1212. It may also store the area 508 and zone 512 in data portions

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1216 and 1220. The new record may then be capable of receiving new settings data for this particular user. In this way, the vehicle 104 can automatically identify or characterize a person so that settings may be established for the person in the vehicle 104.

[0333] The input module 312 may then determine if settings are to be stored, in step 1324. Settings might be any configuration of the vehicle 104 that may be associated with the user. The determination may be made after receiving a user input from the user. For example, the user may make a selection on a touch sensitive display indicating that settings currently made are to be stored. In other situations, a period of time may elapse after the user has made a configuration. After determining that the user is finished making changes to the settings, based on the length of the period of time since the setting was established, the vehicle control system 204 can save the setting. Thus, the vehicle control system 204 can make settings automatically based on reaching a steady state for settings for user.

[0334] The vehicle control system 204 may then store the settings for the person, in step 1328. The user interaction subsystem 332 can make a new entry for the user 1208 in data structure 1204. The new entry may be either a new user or a new settings listed in 1224. The settings may be stored based on the area 508 and zone 512. As explained previously, the settings can be any kind of configuration of the vehicle 104 that may be associated with the user in that area 508 and the zone 512.

[0335] The settings may also be stored in cloud storage, in step 1332. Thus, the vehicle control system 204 can send the new settings to the server 228 to be stored in storage 232. In this way, these new settings may be ported to other vehicles for the user. Further, the settings in storage system 232 may be retrieved, if local storage does not include the settings in storage system 208.

[0336] Additionally or alternatively, the settings may be stored in profile data 252. As provided herein, the profile data 252 may be associated with one or more devices 212, 248, servers 228, vehicle control systems 204, and the like. Optionally, the settings in profile data 252 may be retrieved in response to conditions. For instance, the settings may be retrieved from at least one source having the profile data if local storage does not include the settings in storage system 208. As another example, a user 216 may wish to transfer settings stored in profile data 252 to the system data 208. In any event, the retrieval and transfer of settings may be performed automatically via one or more devices 204, 212, 248, associated with the vehicle 104.

[0337] An embodiment of a method 1400 to configure the vehicle 104 based on stored settings is shown in Fig. 14. A general order for the steps of the method 1400 is shown in Fig. 14. Generally, the method 1400 starts with a start operation 1404 and ends with an end operation 1428. The method 1400 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 14. The method 1400 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1400 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-13.

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[0338] The vehicle control system 204 can determine if a person is in a zone 512 or area 508, in step 1408. This determination may be made by receiving data from one or more sensors 242. The vehicle 104 can use facial recognition, weight sensors, heat sensors, or other sensors to determine whether a person is occupying a certain zone 512.

[0339] Using the information from the sensors 242, the vehicle control system 204 can identify the person, in step 1412. The vehicle control system 204 can obtain characteristics for the user currently occupying the zone 512 and compare those characteristics to the identifying features in portion 1212 of data structure 1204. Thus, the settings in portion 1224 may be retrieved by identifying the correct zone 512, area 508, and characteristics for the user.

[0340] The vehicle control system 204 can first determine if there are settings associated with the identified person for that zone 512 and/or area 508, in step 1416. After identifying the user by matching characteristics with the features in portion 1212, the vehicle control system 204 can determine if there are settings for the user for the area 1216 and zone 1220 the user currently occupies. If there are settings, then the vehicle control system 204 can make the determination that there are settings in portion 1224, and the vehicle control system 204 may then read and retrieve those settings, in step 1420. The settings may be then used to configure or react to the presence of the user, in step 1424. Thus, these settings may be obtained to change the configuration of the vehicle 104, for example, how the position of the seats or mirrors are set, how the dash, console, or heads up display is configured, how the heat or cooling is configured, how the radio is configured, or how other different configurations are made.

[0341] Embodiments of a method 1500 for storing settings in cloud storage are shown in Fig. 15. A general order for the steps of the method 1500 is shown in Fig. 15. Generally, the method 1500 starts with a start operation 1504 and ends with an end operation 1540. The method 1500 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 15. The method 1500 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1500 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-14.

[0342] The vehicle control system 204 can determine if a person is in a zone 512 or area 508, in step 1508. As explained previously, the vehicle control system 204 can receive vehicle sensor data from vehicle sensors 242 that show a person has occupied a zone 512 or an area 508 of the vehicle 104. Using the vehicle sensor data, the vehicle control system 204 can determine characteristics of the person, in step 1512. These characteristics are compared to the features in portion 1212 of the data structure 1204. From this comparison, the vehicle control system 204 can determine if the person is identified within the data structure 1204, in step 1516. If there is a comparison and the person can be identified, the method 1500 proceeds YES to step 1520. However, if the person cannot be identified, the method 1500 proceeds NO, to step 1524.

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[0343] In step 1520, the person is identified in portion 1208 by the successful comparison of the characteristics and the features. It should be noted that there may be a degree of variability between the characteristics and the features in portion 1212. Thus, the comparison may not be an exact comparison but may use methods known in the art to make a statistically significant comparison between the characteristics received from the sensors 242 and the features stored in portion 1212. In step 1524, the characteristics received from sensors 242 are used to characterize the person. In this way, the received characteristics may be used as an ID, in portion 1212, for a new entry for a new user in portion 1208.

[0344] The user may make one or more settings for the vehicle 104. The vehicle control system 204 may determine if the settings are to be stored, in step 1528. If the settings are to be stored, the method 1500 proceeds YES to step 1536. If the settings are not to be stored or if there are no settings to be stored, the method 1500 proceeds NO to step 1532. In step 1532, the vehicle control system 204 can retrieve the settings in the portion 1224 of the data structure 1204. Retrieval of the settings may be as described in conjunction with Fig. 14. If settings are to be stored, the vehicle control system 204 can send those settings to server 228 to be stored in data storage 232, in step 1536. Data storage 232 acts as cloud storage that can be used to retrieve information on the settings from other vehicles or from other sources. Thus, the cloud storage 232 allows for permanent and more robust storage of user preferences for the settings of the vehicle 104.

[0345] An embodiment of a method 1600 for storing gestures associated with the user is shown in Fig. 16. A general order for the steps of the method 1600 is shown in Fig. 16. Generally, the method 1600 starts with a start operation 1604 and ends with an end operation 1640. The method 1600 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 16. The method 1600 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1600 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-15.

[0346] Vehicle control system 204 may receive sensor data from sensors 242 to determine a person is occupying a zone 512 in an area 508 of the vehicle 104, in step 1608. The sensor data may provide characteristics for the person, in step 1612. The vehicle control system 204 may then use the characteristics to determine if the person can be identified, in step 1616. The vehicle control system 204 may compare the characteristics to the features in portion 1212 for the people having been recognized and having data associated therewith. If a comparison is made between the characteristics and the features in portion 1212, the person can be identified, and the method 1600 proceeds YES to step 1620. If there is no comparison, the method 1600 may proceed NO to step 1624. In step 1620, the person may be identified by the vehicle control system 204. Thus, the person's features and associated data record 1240 may be determined and the user identified in portion 1208. If the person is not identified, the vehicle control system 204 can characterize the person in step 1624 by establishing a new record in data structure 1204 using the characteristics, received from the sensors 242, for the features in portion 1212.

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[0347] Thereinafter, the vehicle control system 204 may determine if gestures are to be stored and associated with the user, in step 1628. The vehicle control system 204 may receive user input on a touch sensitive display or some other type of gesture capture region which acknowledges that the user wishes to store one or more gestures. Thus, the user may create their own gestures such as those described in conjunction with Figs. 11A-11K. These gestures may then be characterized and stored in data structure 1204. If there are gestures to be stored, the method 1600 proceeds YES to step 1636. If gestures are not to be stored the method 1600 may proceed NO to step 1632.

[0348] In step 1632, the vehicle control system 204 can retrieve current gestures from portion 1232, which are associated with user 1240. These gestures may be used then to configure how the vehicle 104 will react if a gesture is received. If gestures are to be stored, the vehicle control system 204 may store characteristics, in step 1636, as received from sensor 242 or from one more user interface inputs. These characteristics may then be used to create the stored gestures 1232, in data structure 1204. The characteristics may include what the gesture looks like or appears and also what affect the gesture should have. This information may then be used to change the configuration or operation of the vehicle 104 based on the gesture if it is received at a later time.

[0349] An embodiment of a method 1700 for receiving a gesture and configuring the vehicle 104 based on the gesture may be as provided in Fig. 17. A general order for the steps of the method 1700 is shown in Fig. 17. Generally, the method 1700 starts with a start operation 1704 and ends with an end operation 1728. The method 1700 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 17. The method 1700 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1700 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-16.

[0350] A vehicle control system 204 can receive sensor data from vehicle sensors 242. The vehicle sensor data can be used by the vehicle control system 204 to determine that a person is in a zone 512 or area 508, in step 1708. The vehicle sensor data may then be used to compare against feature characteristics 1212 to identify a person, in step 1712. The vehicle control system 204 thereinafter may receive a gesture, in step 1716. The gesture may be perceived by vehicle sensors 242 or received in a gesture capture region. The gesture may be as described in conjunction with Figs. 11A-11K. Upon receiving the gesture, the vehicle control system 204 can compare the gesture to gesture characteristics in portion 1232, in step 1720. The comparison may be made so that a statistically significant coorelation between the sensor data or gesture data and the gesture characteristic 1232 is made. Upon identifying the gesture, the vehicle control system 204 can configure the vehicle 104 and/or react to the gesture, in step 1724. The configuration or reaction to the gesture may be as prescribed in the gesture characteristic 1232.

[0351] An embodiment of a method 1800 for storing health data may be as shown in Fig. 18. A general order for the steps of the method 1800 is shown in Fig. 18. Generally, the method 1800 starts

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with a start operation 1804 and ends with an end operation 1844. The method 1800 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 18. The method 1800 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1800 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-17.

[0352] Vehicle control system 204 can receive sensor data from sensors 242. The sensor data may be used to determine that a person is in a zone 512 or area 508, in step 1808. The sensor data may then be used to determine characteristics of the person, in step 1812. From the characteristics, the vehicle control system 204 can determine if a person may be identified in data structure 1204, in step 1816. If it is determined that the person can be identified in step 1816, the method 1800 proceeds YES to step 1820. If the person cannot be identified, the method 1800 proceeds NO to step 1824. A person may be identified by matching the characteristics of a person from the sensor data to the features shown in portion 1212. If these comparisons are statistically significant, the person may be identified in portion 1208, in step 1820. However, if the person is not identified in portion 1208, the vehicle control system 204 can characterize the person using the vehicle sensor data, in step 1824. In this way, the vehicle control system 204 can create a new record for a new user in data structure 1204.

[0353] Thereinafter, the vehicle control system 204 may receive health and/or safety data from the vehicle sensors 242, in step 1828. The vehicle control system 204 can determine if the health or safety data is to be stored, in step 1832. The determination is made as to whether or not there is sufficient health data or safety parameters, in portion 1228 and 1236, to provide a reasonable baseline data pattern for the user 1240. If there is data to be received and stored, the vehicle control system 204 can store the data for the person in portions 1228 and 1236 of the data structure 1204, in step 1832.

[0354] The vehicle control system 204 may then wait a period of time, in step 1836. The period of time may be any amount of time from seconds to minutes to days. Thereinafter, the vehicle control system 204 can receive new data from vehicle sensors 242, in step 1828. Thus, the vehicle control system 204 can receive data periodically and update or continue to refine the health data and safety parameters in data structure 1204. Thereinafter, the vehicle control system 204 may optionally store the health and safety data in cloud storage 232 by sending it through the communication network 224 to the server 228, in step 1840.

[0355] An embodiment of a method 1900 for monitoring the health of a user may be as shown in Fig. 19. A general order for the steps of the method 1900 is shown in Fig. 19. Generally, the method 1900 starts with a start operation 1904 and ends with an end operation 1928. The method 1900 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 19. The method 1900 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1900 shall be

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explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-18.

[0356] The vehicle control system 204 can receive health data from sensors 242. The health data may be received in step 1908. The vehicle control system 204 may then compare the received health data to stored health parameters in portion 1228 or portion 1236, in step 1912. The comparison may check if there is statistically significant separation or disagreement between the received health data and the stored health data. Thus, the vehicle control system 204 can make a health comparison of the user based on a baseline of health data previously stored. A statistically significant comparison may include determining if there are any parameters more than three standard deviations from the average or norm, any parameter that is increasing or decreasing over a period of eight different measurements, a measurement that is more than two standard deviations from the norm more than three measurements consecutively, or other types of statistical comparisons.

[0357] If the vehicle control system 204 determines that measured health parameter does deviate from the norm, the vehicle control system 204 can determine whether the health data is within acceptable limits, in step 1916. If the health data is within acceptable limits, the method 1900 proceeds YES back to receiving new health data, in step 1908. In this way, the health data is periodically or continually monitored to ensure that the driver is in a healthy state and able to operate the vehicle. If the health data is not within acceptable parameters, the method 1900 may proceed NO to step 1924 where the vehicle control system 204 may react to the change in the health data. The reaction may include any measure to provide for the safety of the user, such as stopping the vehicle, beginning to drive the vehicle, driving the vehicle to a new location, such as a hospital, waking the driver with an alarm or other noise, or performing some other function that may help maintain the health or safety of the user.

[0358] The health data received may be a reaction from the driver. For example, the driver may call for help or ask the vehicle for assistance. For example, the driver or passenger may say that they are having a medical emergency and ask the car to perform some function to help. The function to help may include driving the person to a hospital or stopping the car and calling for emergency assistance.

[0359] Figure 20 illustrates optional componentry that can be utilized with the system 200. In particular, the optional componentry includes a profile subsystem 2004, an edit/modification module 2008, a verification module 2012, a shopping module 2016, an encryption module 2020, a template module 2024, a global standard template 2028, a profile import/export module 2032, a communications device 212, such as a smart phone, tablet, or other device, one or more other communication devices 2044, one or more other vehicles 2048, one or more other entities/servers 2052, a profile repository 2056, a purchased item/environmental item detection module 2036, an advertising module 2040, and profile data stored in profile database 252, all connected by bus 356.

[0360] As discussed, one or more user profiles can be stored in the profile database 252. A user profile may be accessed and/or modified by a user providing authorization through a verification system in cooperation with the verification module 2012. For example, by employing one or more of a

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biometric, a gesture, a feature, a device notification, or authentication information, the user can be authorized to access one or more user profiles. In accordance with an optional embodiment, a verification module 212 includes one or more of a biometric recognition module, a gesture recognition module, a feature recognition module, a device identification database and a device identification authentication module. An authorization and verification performed by the verification module 2012, cooperating with the profile subsystem 2004, may also optionally rely on verifying a user's biometric information in addition to a recognized identity of a specific device, e.g., smartphone, electronic user device, or in general any device associated with the user.

[0361] The user profiles, whether created for a driver, a passenger, or a user, or others, are portable and can follow the user from vehicle to vehicle. As such, there may be a need to allow the user to edit/modify their profile through use of the edit/modification module 2008. Although not shown, the edit/modification module can include an appropriate user interface, such as a graphical user interface, that can be provided on one or more of a vehicle display, a communications device, such as a smart phone, a personal computer, a tablet computer, or in general any device capable of displaying an interface that allows for a user to access, and edit, or modify their profile data.

[0362] As briefly discussed above, user profiles may be generated based on data gathered from one or more of the vehicle preferences, such as seat settings, HVAC settings, multimedia settings, navigation settings, entertainment preferences, recorded settings, geographical location information, such as that provided by a satellite positioning system, mobile device information, such as mobile device, electronic addresses, internet browsing history and content, application store selections, user settings, enabled and disabled vehicle features, and the like, private information, such as user information from a social network, user presence information, user business accounts, and the like, secure data, biometric information, audio information from onboard microphones, video information from onboard cameras, internet browsing history and browsed content using an onboard computer and with the local area network enabled by the vehicle, an electronic map correlating geographic location information with a map feature, such as

a vendor's storefront, roadway name, city name, and the like, and so forth. In general, the user profile can also optionally generally store user setting preferences with respect to a selected object, such as the vehicle, user purchasing preferences, such as vendor name, location, purchased items, and the like, user driving behavior and preferences, user behavior with respect to the selected object, user socioeconomic status, user residence and business addresses, user communication devices and electronic addresses thereof, user biometric information and other user identification information, user family members and, for each family member, any one or more of the above listed information.

[0363] In some instances, the user profile data may be stored as part of a template, in cooperation with a template module 2024. The user template may be stored locally, such as at the vehicle, at a mobile device, at a remote location(s), or the like. In a similar manner, user profile data may be stored remotely, such as at a central server, on the cloud, or combinations thereof, such as on a communication device

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212, at another entity/server 2052, on another vehicle 2048, or on another communication device or smart phone 2044. As can be appreciated, there are multiple storage options for user profile information and user templates. Among other things, the profiles may be stored on the cloud, on a phone, on a vehicle, on a local storage memory, in a key fob, in a rental vehicle, or associated with another profile, such as a user's travel profile.

[0364] In accordance with an optional embodiment, and in cooperation with the encryption module 2020, the user profile may be all or partially encrypted. This user profile may be accessed/modified via a user provided authorization through the verification module 2012. As discussed, this can include employing at least one of a biometric, gesture recognition, feature recognition, device identification recognition, or other authentication technique(s). The authorization may rely on verifying the user's biometric information in addition to a recognized identity of a specific device.

[0365] In accordance with one optional embodiment, in cooperation with the template module 2024 and the global standard template 2028, a global standard template may be created. The global standard template can be common among vehicles, manufacturers, company users, family members, or the like. As one example, a particular vehicle manufacturer may determine to build a global standard template to provide a reliable framework for the presentation of vehicle features and/or providing certain vehicle functionality. The global standard template may be used in an advertising approach, to refine GPS and/or mapping route selection, present advertisements, offer savings, and communicate with the user. In another optional embodiment, a business may continually rent vehicles from a rental agency for its traveling employs. As such, the business may wish to build a global standard template that is always presented to their employees to ensure consistency and reliability of presented vehicle features.

[0366] In some optional embodiments, the global standard template may be adopted by a user. In this scenario, the user may use a global standard template and build the user's personal preferences, settings, and other user profile information from this "base" global standard template stored in the global standard template database 2028. In conjunction with the template module 2024 and the edit/modification module 2008, the user can access this global standard template and then edit/modify this template to personalize it with their own personal settings and user information. As such, the global standard template may be provided as a starting point, upon which the user may build to create a truly personalized user profile which then can be stored as profile data 252.

[0367] The authentication performed by the verification module 2012 can be based on the exchange of the security keys between the user, the vehicle, and/or even a server(s). This type of encryption may be cryptographically asymmetric in nature, such as private and public keys. In one example, a user may maintain a private key on a mobile device, and a public key may be provided by a vehicle, such a rental vehicle. In another example, the user may maintain the private key on the mobile device, and the private key may be provided by the vehicle, such as a rental vehicle. Other embodiments may use a private key on the communication device and a private key provided by the vehicle and/or a public key on the phone

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and a public key provided by the vehicle. In yet another embodiment, the exchange of keys may be facilitated via a certified trusted authority, similar to a certificate of authority (CA).

[0368] In another optional embodiment, a biometric verification, or confirmation, of the user may be required prior to initiating the authentication process performed by the verification module 2012. For example, the first step of authentication may include identifying one or more biometric features of a user using any one or more of the sensors disclosed herein. Once the user is confirmed, the authentication may proceed to exchange security keys.

[0369] Communications between a mobile device and a vehicle may be established via one or more of near field communications, RFID, Bluetooth®, or other communications protocol, whether it be proprietary or open source. Any of these communication protocols can be used to exchange profile data and/or verification/authentication information.

[0370] The profile data may include a corresponding user interface or personality defined or configured by the user. The profile can be an animated character that follows the user from car-to-car, and from communication device-to-communication device. The profile can optionally be updated globally though interactions with the selected device (whether a vehicle or communication device) with, for example, cloud-based data storage storing the profile. The animated character can have the same appearance and voice characteristics as, for example, the user. The animated character can also provide the user with feedback and recommendations and receive user commands and requests, through one or more of tactile, audio and/or video processing techniques as discussed hereinafter.

[0371] The user profiles, whether created for a passenger or user, such as the driver, are portable and can follow a user(s) from vehicle to vehicle. In cooperation with the profile subsystem 2004, the profile data 252 can be passed through the profile import/export module 2032 to one or more other devices, such as device 212, another communication device such as smart phone 204, or another vehicle(s) 2048, or to another entity, or to, for example, a cloud 2052.

[0372] In one optional embodiment, the user profile can be accessed by any vehicle, and based on the position of a user in the vehicle, populate available settings in the vehicle. As discussed, the various settings can be different based on whether the user is the driver or a passenger, the position of the user in the vehicle, and/or other characteristics such as whether the user is of driving age, whether there are parental controls in place associated with the user profile, and the like. It is anticipated that the user profile may be constantly improved, updated and refined. As such, data may be constantly recorded to modify an existing user profile and stored as profile data 252. In certain circumstances, a user may wish to cease recording data associated with a user profile and/or edit or alter the user profile to include or exclude or modify selected information. In accordance with the profile subsystem 2004 and the edit/modification module 2008, a user may turn off user template data recording. For instance, the user may wish to travel to Las Vegas for a bachelor/bachelorette party. Although the user may travel to numerous sites in and about Las Vegas, purchase many different goods and/or services, and even stay at one or more hotels/motels, the data may not be congruent with the user's typical behavior. Accordingly,

the user may place the recording of data in the profile on "pause" such that the data acquired in Las Vegas may be restricted from being recorded by a user's selection and approval.

[0373] In accordance with this optional "pause" feature, which can be evoked by the edit/modification module 2008, one or more of the shopping module 2016, purchased items/environmental items detection module 2036, advertising module 2040, the profile data itself 252 to be placed in a "paused" state where the profile data 252 is not updated. As will be appreciated, the user could also specify if the profile subsystem 2004 is to query the user each time the system believes a profile update is to be performed. The user could then be provided the option, such a via a graphical user interface, on whether or not that particular update should be recorded in the profile data 252.

[0374] As generally discussed, user profiles and the global standard template, such as 2028, can include, but are in no way limited to, the following data and/or information: vehicle settings and other user profile data that may be stored to a mobile device associated with the user, on the cloud, and/or a memory associated with the vehicle. This data can be portable, and in cooperation with the profile import/export module 2032, be transferred from one vehicle to another, or from a vehicle to another device or storage location(s).

[0375] Passenger information, including but not limited to shopping characteristics, searched web pages, vehicle settings, such as climate controls, radio stations, window tint levels, color schemes, information presentation write outs, etcetera, can be saved to a passenger profile and similarly stored as profile data 252. In a like manner, there can be different types of global standard templates 2028 that can be used as a starting point when developing a profile.

[0376] For example if a user is not of driving age, and will only be a passenger, a global standard template can be provided 2028 that is specifically for a passenger who does not have a drivers license, and may not have some of the features, settings, and preferences that the global standard template for a user, who has a drivers license, may have. In a similar manner, and as discussed, and in cooperation with the template module 2024 and edit/modification module 2008, a user could edit/modify this template which has been stored as profile data 252. Again, this profile data could be portable and also stored and/or transferred to one or more other devices, such as device 212, another smart phone 2044, the cloud, or the like, as discussed.

[0377] In accordance with another optional embodiment, and in cooperation with the purchased item/environmental item detection module 2036, and one or more of the sensors/monitors disclosed herein, purchased items can be identified and their identification stored with the profile data 252. For example, utilizing one or more of audio, a camera, or other video input, RFID readers and tags, bar code readers, QR (Quick Response) code readers or the like, one or more purchased items could be determined and identified and the purchased item(s) (or other item/object placed in the vehicle) associated with the user and/or vehicle and stored in a profile data 252. For example, what a user is wearing, such as brand names, styles, etcetera, can be recognized and stored as profile data 252, as well as what a user has purchased, such as by observing that a fast food chain bag is in the car, a particular brand of coffee, as

identified by reading a company logo, information from one or more shopping bags, etcetera, can all be analyzed and an assessment of the origin of the products determined. This can be then used by, for example, the advertising module 2040 as discussed hereinafter to determine an advertising scheme to present one or more advertisements to the user.

[0378] Again, this information, e.g. logos, brand names, shopping bag identifiers, etcetera, can be detected using one or more of RFID, QR codes, bar codes, video analysis, camera analysis, or the like. Similarly, the purchased item/environmental item detection module 2036 can detect a digital receipt associated with a mobile device, such as device 212, and determined which purchases have been made therefrom. For example, interacting with one or more of a frequent fueler card, a loyalty card, a coffee shop chain mobile application, or the like, the purchased item/environmental item detection module 2036 can determine which purchases a user has made. This information could then optionally be stored with the profile data 252. It is to be appreciated that the various sensors, cameras, readers, and the like, can also be included in a trunk of a vehicle/bed of a vehicle to facilitate the detection of one or more purchased items or other objects as discussed herein.

[0379] Optionally, GPS information can be used to assist with determining what the one or more purchased items/environmental item introduced into the vehicle are. This GPS information can similarly be stored in the profile data 252 such as where a user shops, which stores a user parks close to, which stores a user frequents, and the like. For example, utilizing GPS technology, the user's travel path during a time period can be tracked and is correlated to where the user has shopped. This can be then used in conjunction with the techniques discussed above to further supplement the information in the profile data 252 with information such as where the user has shopped, where they frequent, and can further be used to assist in determining which item(s) have been brought into the vehicle. Additionally, the purchased item/environmental item detection module 2036 could query another device, such as a smart phone, and if the smart phone includes GPS capabilities, determine where the user was based on the information from the smart phone, when they were not in their vehicle. This information could further be used to refine and optionally help identify which purchased items the user may now have with them in the vehicle.

[0380] An Example of the Global Standard Template for a specific vehicle manufacturer is:

Car Brand X	
Setting:	***User 1***
Seat Position	Position 2
Mirror Position	X,Y,Z Position
Infotainment Settings	Radio On, 99.5 FM, Volume 4
Navigation Settings	Navigation On, Map View
Vehicle Mode	Sport Mode
HVAC	Driver 68, Passenger 70
Car Brand X Advertising	Off
Car Brand X Reminders	On (Display on Video Only, no Audio)
Car Brand X Vehicle Statistics Reporting	On – Send to Both User and Manufacturer and Dealer/Maintenance Shop

[0381] An example of the multiple profiles that can be managed by a single vehicle are as follows: (as should be appreciated, rules/preferences may exist such that the vehicle uses one user's settings instead of another user's settings, e.g., driver instead of back seat passenger in the event of a conflict)

Profiles Associated with Vehicle			
Setting:	***User 1 (Driver)***	***User 2 (Front Seat Passenger)***	***User 2 (Back Seat Passenger)***
Seat Position	Position 2	Position 3	N/A
Mirror Position	X,Y,Z Position	N/A	N/A
Infotainment Settings	Radio On, 99.5 FM, Volume 4	CD Player On, Volume 2, Bass +5, Treble -1	DVD Player – Vol. 11
Navigation Settings	Navigation On, Map View	Off	N/A
Vehicle Mode	Sport Mode	Comfort	N/A
HVAC	Driver 68, Passenger 70	Driver 70, Passenger 70	65
Car Brand X Advertising	Off	Off	On – Send to Phone
Car Brand X Reminders	On (Display on Video Only, no Audio)	Off	N/A
Car Brand X Vehicle Statistics Reporting	On – Send to Both User and Manufacturer and Dealer/Maintenance Shop	Off	N/A

[0382] In accordance with another optional embodiment, and in cooperation with the shopping module 2016, one or more of shopping lists, reminders, favorite shopping locations, and shopping deals of interest may be provided to a user based on, for example, information in the profile data 252. Additionally, as discussed hereinafter, information maintained by the shopping module 2016 may be utilized by the advertising module 2040 to provide, for example, targeted advertising for one or more users in the vehicle. This targeted advertising can be sent to the vehicle itself for display on, for example, a screen, and/or could be sent directly to a user's communications device such as a smart phone.

[0383] As discussed, communications between a mobile device, such as device 212, and a vehicle may be established via one or more of near field communications, RFID, Bluetooth®, or other communications protocol, be it proprietary or open source. By way of example, a user with a mobile device, such as a smart phone, tablet, laptop computer, etcetera, such as device 212, having at least one user profile associated therewith, may enter a vehicle where the vehicle is configured to enable communications with the mobile device. In cooperation with the profile import/export module 2032, and one or more sensors as discussed above, the vehicle may determine a location of the mobile device inside the vehicle, and based, at least partially on that location, provide one or more features and/or controls to the user via, for example, a display associated with the vehicle. As will be appreciated, these features and/or controls could also be provided audibly to a user, with the user confirming whether or not they want that feature and/or control, or providing the value or setting of that feature and/or control back to the system in an audible manner which can be detected by one or more microphones in the vehicle. In

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some cases, the user may pair their mobile device with the vehicle via a physical presence and/or contact. For instance, one example of the physical contact may include positioning the mobile device into a range associated with a NFC. Another example of physical contact may include a user physically pairing the device via Bluetooth®, via a wired connection, or by a dock associated with/installed in the vehicle.

[0384] In accordance with an optional embodiment, user profile(s) may be presented, or uploaded, to a vehicle in advance of a user reaching a vehicle. For example, in a rental car scenario, a car rental agency can maintain a profile for each customer and upload their profile onto the car rented to the customer at the time the leasing is consummated, or, for example, when the user picks-up the leased vehicle. In one embodiment, a user may save a user profile with a rental vehicle agency during the registration/reservation process. Saving the user profile may be performed automatically or, for example, via user input. For example, a user profile may be associated with a smart phone, tablet, computer, or other device as provided herein. While the user in this example is making a reservation with a rental agency via the device, the user profile associated with the user may be automatically transmitted to the rental agency via the device. Transmission of the user profile may be timed to coincide with payment of rental and/or reservation fees.

[0385] More specifically, and in accordance with an exemplary usage scenario, a user's profile is stored as profile data 252 on a smart phone 212. When the user, utilizing a car rental agency app on a smart phone 212, places a reservation for a rental car the app could query the user as to whether they would like to associate their profile data 252 with the vehicle rental. If the user opts to associate their profile data 252 with the rental, their profile data 252 can be communicated from the smart phone 212 to, for example, server 2052, which in this exemplary embodiment, is associated with the car rental agency and then stored in the car rental agency's profile repository 2056. Then, upon the user renting the vehicle, the profile which was stored in profile repository 2056, can be forwarded in cooperation with the profile import/export module 2032 associated and stored in the vehicle that the user has leased. In a similar manner, upon the user completing the vehicle lease, any updates made to the profile could then be exported from the rental vehicle, in cooperation with the rental vehicle's profile import/export module 2032, and stored in the profile repository 2056. This updated profile information could then, for example, be used for future vehicle leases and/or reconciled with the user's profile data stored on, for example, their smart phone and/or a primary vehicle that they may drive.

[0386] In accordance with an optional embodiment, upon the user completing the necessary paperwork for the leased vehicle, and in cooperation with the profile repository 2056 and the profile import/export module 2032 associated with the rental vehicle, while the user is walking from the rental desk to their car, the car can be automatically adjusting all of the vehicle settings as set forth in the user's profile (to the extent possible). In this way, the user need not manually select any settings when he or she begins driving the rental vehicle.

[0387] For instance, as part of a travel package, a rental car system may be able to link a reservation to where the user is staying, where the user has dinner reservations, and the like, based on the mobile device

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associated with the user. The system may then export, for example, one or more of a text message, an email, a phone call, or other signal to the mobile device, and request access to the user's profile stored on that mobile device. If the system is authorized to retrieve the user's profile from the mobile device, this user profile can be obtained and associated with the rental vehicle and the settings associated with the user profile used to update the leased vehicle prior the user actually using the leased vehicle.

[0388] Similarly, and given the portability of the user's profile stored as profile data, administrative assistants, travel agents, family members, and the like, can reserve a vehicle on behalf of another individual and link (or associate) the user profile of the person renting the vehicle to the reservation based on, for example, the user's mobile device phone number. In accordance with this optional working embodiment, the profile data 252 need not necessarily be stored in the profile repository 2056, but can rather be retrieved from the user's mobile communications device, that way insuring that the most up to date profile data is available when the user leases the vehicle.

[0389] In accordance with another optional embodiment, the mobile device can act as the key. For example, a phone number may be embedded in the private key of the mobile device. The public key may be presented to the rental car. In some cases, a combination of phone number and device ID, such as EIN, MAC address, and the like, may be used as part of the authentication process. Utilizing these various portions of information, a mobile device can then act as the key to enable operation of the vehicle.

[0390] As illustrated in Fig 21, an exemplary scenario is shown where a user approaches a rental vehicle that they have leased. In cooperation with the profile import/export module 2032, profile data is obtained from the smart phone 2104 and sent to the rental vehicle. User identification module 822 confirms, as discussed herein, this is the appropriate user for the lease of the vehicle and triggers the association of the profile data 252 from the smart phone 212 with the profile data repository 252 in the vehicle. Upon integration of the profile data 252 into the vehicle, the vehicle can optionally show, via display 2116, a welcome message to the vehicle lessee, as well as a summary that shows, for example, which of their profile data settings have been used to update the operation of the vehicle. Additionally, interface 2116 optionally asked the user if they would want to associate another profile with the vehicle by providing button 2120 which would allow the user, upon selection, to associate one or more other profiles with the vehicle. Optionally, further, another button 2124 could be provided where, for example, the profile recognized by the vehicle is not the appropriate profile for the current driver. This could happen in a scenario where, for example, multiple drivers have been associated with a rental lease and the profile associated with the vehicle may not be the current driver, and the system needs to select another profile associated with the lease based on who the current driver will be.

[0391] In accordance with another optional embodiment, in cooperation with the advertising module 2040 as discussed above, various advertisements could be sent to one or more of the vehicle associated with the profile data, the mobile device associated with the user, or the like. The advertising module 2040 can also operate in a dynamic manner such that the advertising module 2040 is capable of updating

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radio or multimedia advertisements presented to a vehicle based on information in the profile data. Even further, when a user is finished with a vehicle lease, the advertising module 2040 may continue to send advertisements to the mobile device and/or email of the user who rented the vehicle.

[0392] Furthermore, in cooperation with one or more of the shopping module 2016 and the purchased items/environmental items detection module 2036, the system can allow truly comparative shopping. For example, information may be presented to a user, including, but not limited to, coupons, savings, deals, gas prices, vehicle maintenance specials, and the like. This information may be presented based on previous purchases and shopping behavior associated with the user profile, where the user typically travels or is expected to travel, or the like. For example, the system may know that the user recently bought tomatoes and onions on the last shopping trip one week ago. The system may also know that super store Y is currently offering 40% off of all onions and tomatoes and the user is expected to pass by super store Y in the next five minutes. The system, in cooperation with the advertising module 2040, could then provide this information to the user one or more of audibly and visually and indicate to the user that they will be passing super store Y shortly, on the right hand side of the road.

[0393] Figure 22 outlines an optional embodiment utilized for guest vehicle user reporting as well as other functionality. This subsystem includes, for example, vehicle personality data 2204, a vehicle reporting module 2208, a smart calendar module 2212, a context module 2216 that can cooperate with, for example, breathalyzer 2220, one or more remote access devices 2224, a camera application module 2224, an expression/facial ID/gesture repository 2228, and a parental control module 2232.

[0394] In accordance with an optional operational embodiment, a vehicle may report vehicle conditions, such as number of passengers in the vehicle, speeds - average, maximum, minimum - time at a location, time leaving a location, time arriving at a location, GPS data, and in general, any information associated with the vehicle, to a user at the user's request, automatically, or when a user is away from a vehicle. The user may request and obtain one or more of images of the inside the vehicle, and can optionally directly communicate with the vehicle, and even control certain vehicle features and functions. The vehicle could also be instructed to shut down when the owner leaves for a weekend, and does not want others using it.

[0395] The vehicle may initiate communications with one or more third parties based on context of the vehicle and/or the user, in cooperation with the context module 2216. For example, in some cases, the vehicle can set up a second personality for the user via the user's mobile device. As one example, communications sent via the vehicle, not the user, can be associated with a vehicle personality. In some embodiments, the second personality may be identified via an icon or other identifier associated with a communication. As one example, the vehicle may set up a group personality to represent two or more users associated with the vehicle. The group personality which can be stored in the vehicle personality data repository 2204 may depend on the number of people detected in the vehicle. Moreover, the group personality may send communications via at least one of the user's mobile devices. For example, communication(s) sent via the vehicle, not the user(s), could be associated with a vehicle group

personality. Similar to the second personality previously disclosed, in some embodiments, the group personality may be identified via an icon or other identifier associated with the communication. As one example, a user may be traveling home from work, with this determination capable of being predicted based on prior trips made of the same or similar time of day by the same user, the vehicle may send a message, such as a text message, phone call, email, etcetera, to a third party to indicate the user is coming home. In some cases, the message may be identified as being sent from the vehicle, utilizing a vehicle icon associated with the message, or other similar identifier. The third party may respond to the message, which can then be relayed, one or more of visually and/or audibly, to the user via the components of the vehicle, such as via a dashboard display, head unit, speakers, or the like. By way of example, a third party may state "Please pick up some eggs and fabric softener before you come home, thanks." This information then can be relayed by the vehicle and to, for example, the driver. In this manner, the context module 2216 can monitor one or more aspects of the vehicle, including time leaving a location, destination information entered into the navigation system, arrival time at the destination, projected travel path, etc., and conclude, for example, as in the above scenario, that the user has left work and they are on their way home.

[0396] Continuing on with the above example, on receipt of the message that eggs and fabric softener are to be picked up, the context module 2216, cooperating with one or more of vehicle personality data 2204, shopping module 2016, and navigation module, could, upon recognizing that shopping items are to be picked up, appropriately reroute the user to the closest or preferred shopping location on the trip home to obtain the requested items.

[0397] In another optional embodiment, a vehicle may report vehicle conditions, such as the number of passengers in the vehicle, speed, etcetera, to a user at the user's communication or electronic device, or when a user is away from a vehicle. For example, and in cooperation with remote access device 2224 and the vehicle reporting module 2208, a user could remotely access a vehicle and query information regarding any aspect of the vehicle's operation, as well as vehicle conditions as enumerated as above. The user, again using the remote access device 2224, could also request and obtain one or more of an image or images of the inside of the vehicle, directly communicate with the vehicle, and/or control certain features of the vehicle. For example, the user could remotely connect to the vehicle using the remote access device 2224, and their identity confirmed in cooperation with the user identification module 822 and information in profile data 252. Upon confirming the user is authorized to access and perform one or more functions and/or request information from the vehicle, the user is allowed to perform these functions. It should be appreciated, however, that based on current operating conditions of the vehicle, and optionally based on information in the profile, there may be restrictions on the type of functions the remote user is able to enable/disable as well as the type of communications that are allowed to be communicated to the vehicle.

[0398] In accordance with an optional embodiment, vehicle functions can be controlled based on information obtained from the vehicle reporting module 2208. For example, if it is determined, by using

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the camera application module 2224, that the vehicle is overcrowded, an instruction could be provided to the driver indicating that they are to stop the vehicle because it is overcrowded and remove one or more passengers from the vehicle before they are allowed to continue. These various functions and controls can further be modified based on information associated with the parental control module 2232. For example, the parent could impose a restriction that a young driver is not to have more than two people in the vehicle, even though the vehicle could, for example, hold six individuals. Thus, when the vehicle reporting module 2208, cooperating with the camera application module 2224, determines that the vehicle has more occupants than that allowed by the parental control module 2232, this information can be reported to the remote access device 2224, as well as optionally sent to one or more other devices, such as smart phone 212. As discussed, one or more of vehicle functionality and/or communications could then be established to ensure the problem with vehicle overcrowding has been addressed, and the vehicle is now in conformance with one or more rules managed by the parental control module 2232.

[0399] In accordance with another optional embodiment, the car can sync with one or more calendars to create one or more of smart alarms and updates. A smart alarm is an alarm that instead of a standard 15 minute warning before a meeting, if it is an offsite meeting with an address entered, the system can determine how much time it will take based on traffic, driving habits, and the amount of time it generally takes to exit the office and get to the car, etcetera, and change the smart alarm accordingly. The updates can be triggered based upon the time of arrival, determination from the GPS, or as calculated above, and a message such as an email, text message or the like, sent to the other attendees to advise them as to when the user is expected to arrive. Similarly, a prompt can be provided for the user to call the meeting moderator, advising them of their ETA.

[0400] Similarly, if the vehicle determines that it is stopping for a coffee, an update could be sent to the other meeting attendees asking them whether they would like anything from the coffee shop. This information could then be communicated to the user via one or more the vehicle or on another device, such as their smart phone.

[0401] This smart calendar module 2212 is further capable of accessing information from a remote device, such as the smart phone 212, and integrating various information therefrom, such as from a calendar on the smart phone. In a similar manner, the smart calendar module 2212 can remotely communicate with the user's calendar that might be associated with the vehicle or stored on the cloud. Utilizing one or more of the various communication functions of the vehicle, information in the user's calendar in the cloud could be obtained and utilized, as discussed above, to assist the user with their daily tasks.

[0402] In accordance of another exemplary embodiment, context module 2216 can cooperate with another sensor, such as breathalyzer 2220 to ensure compliance with drunk driving laws. In a working example, the context module 2216, cooperating with the user identification module 822, determines that a user who has had a bad past experience with driving while under the influence is currently identified as the driver of the vehicle. The profile data 252 can indicate the driver, perhaps, has a past DUI and is not

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allowed to drive any vehicle unless they pass a breathalyzer test. In this scenario, the context module 2216 can limit functionality of the vehicle, and for example, not allow the driver to start the vehicle, unless the breathalyzer test has been completed successfully. Moreover, and in cooperation with the vehicle reporting module 2208, the results of this breathalyzer test can be sent to one or more entities, such as a monitoring entity, that monitors whether or not the driver has attempted to drive the vehicle that is under the influence. Similarly, the vehicle reporting module 2208 could establish communications with a law enforcement agency indicating the current GPS coordinates of the vehicle, and that a user who is under the influence has not passed a breathalyzer test and is attempting to drive the vehicle. A log of the various breathalyzer tests could also be stored in the profile data 252, and accessed by, for example, a law enforcement agency.

[0403] In accordance with another exemplary operational scenario, and in cooperation, for example, with a smart calendar module 2212, context module 2216 and vehicle reporting module 2208, the vehicle can determine that the user is going to be out of town for the weekend, and not using the vehicle, based on information in user's calendar. In this context, the context module 2216 would know that the user is not going to be using the vehicle, so the vehicle shouldn't be used. Thus, if someone tries to the use the vehicle, the vehicle, cooperating with the vehicle reporting module 2208, could contact one or more of the user's smart phone and remote access device 2224 and ask the owner whether permission is granted for someone to use the vehicle. Moreover, and in cooperation with the camera application module 2224, the vehicle reporting module 2208 could send an image of the vehicle occupant(s) along to the owner with the request for permission to use the vehicle. If the owner denies permission, the owner could return a message to the vehicle indicating that the vehicle is not to be used, and the context module 2216 cooperating with various vehicle functions and systems shut down the vehicle to prevent the vehicles use.

[0404] In another exemplary scenario, the context module 2216 cooperating with the parental control module 2232 could require the vehicle to receive test results from the breathalyzer 2220 if a child is out past 8 PM and trying to use the vehicle. In a similar manner, and in again in concert with the context module 2216 and the GPS module, the system could determine that the vehicle has been sitting outside of a bar for over an hour, and implement a similar requirement for a breathalyzer test to be performed before the ignition is activated.

[0405] In accordance with another exemplary operational scenario, the vehicle could know a child's curfew and also know the distance from home. Given that information, the context module 2216, cooperating with the vehicle reporting module 2208, could inform the child, via a communication to a smart phone, that they have to go. Furthermore, since the system can know the occupants, utilizing one or more of the user identification module 822, the camera application module 2224, and the profile data associated with the vehicle, the context module 2216 could also include information to assist with successfully delivering the other vehicle occupants home in a timely manner.

[0406] In accordance with another exemplary operational scenario, the camera application module 2224, in cooperation with the expression/facial ID/gesture database 2228, and the context module 2216,

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can determine the emotional state of one or more occupants in the vehicle. Information from the camera application module 2224 can be correlated with profile data and through use of the user identification data module 822 determine which captured image(s) belongs to which vehicle occupant. For example, the profile data 252 may include biometric information, such as facial information, for the user associated with that profile. A controller or processor could then map the obtained one or more images to information in the profile data utilizing known facial recognition techniques, and in cooperation with the context module 2216, determine an emotional state associated with one or more of the users in the vehicle. These various emotional states could then be reported, for example, using the vehicle reporting module 2208, to one or more other destinations, such as to the occupants' parents via a communication to their smart phone or other electronic device.

[0407] In a similar manner, the camera application module 2224 cooperating with the context module 2216 and vehicle reporting module 2208 could monitor for unusual behavior, such as obscene gestures by one of the vehicle occupants. The obscene gestures could be recognized based on information in the gesture database 2228, and upon detection of one of these gestures by the camera application module 2224, the vehicle reporting module 2208 send an appropriate communication to, for example, parents or owners of the vehicle indicating one or more of the occupants may be behaving in an unsafe manner. An image of the obscene gesture could also be sent along with the communication to one or more of the parents or owners of the vehicle, as well as this information optionally stored in the user's profile for use in some other application, such as insurance reporting and monitoring as discussed herein.

[0408] As an extension for the above scenario, the vehicle could use one or more of its sensors, such as a camera in the camera application module 2224, to recognize the face of a person blowing into the breathalyzer 2220 for affirmative identification and to prevent fraudulent attempts to bypass the system. As discussed, profile data 252 can include information usable for facial recognition. This information is useable by the context module 2216 to confirm the individual utilizing the breathalyzer is the person that will be operating the vehicle. As a parental control, and in cooperation with the parental control module 2232, the vehicle could require a child to use it prior to activating the ignition on any night they are out past 8 PM. The car could know the child's curfew, and also know the distance from home. Given that information the vehicle could inform the child they need to leave immediately in order to make it home on time, and it can optionally require the child to utilize the breathalyzer before enabling the ignition system. It is to be appreciated that parental control is not limited to a parent-child relationship, but may also refer to one who is in control of a subordinate or lawbreaker, such as a child, a parolee, an employee, and the like. As discussed, notification of a user failing to pass a breathalyzer test, whether the breathalyzer is part of the vehicle or another vehicle, remote or otherwise, could be sent to the police or authorities as appropriate. In some cases, the signal may continue to be sent unless deactivated by an authorized party. This could assist law enforcement officers with apprehending drivers who may be under the influence.

[0409] In accordance with another optional embodiment, other car-based camera applications can be implemented by the camera application module 2224, cooperating with one or more of the other elements of the vehicle systems. For sleep detection, such as driver head bobbing, blink rate, and other gestures which indicate a driver is falling asleep, the camera application module 2224, cooperating with the expression/facial ID/gesture database 2228, could trigger one or more of an audible, visual, or tactile warning to the driver to wake up. Furthermore, this warning could be sent to one or more of the other vehicle occupants, and alert them to the fact that the driver is falling asleep, and they should engage the driver to ensure they stay awake.

[0410] In another optional embodiment, the camera, cooperating with the camera application module 2224, can utilize the detection of positional based movements to regulate accessibility to the car control console. For example, when a driver reaches for the console, this can result is limited access to functionality to the console, or as a passenger reaching for the console, this could result in additional functionality being provided to that user. An example of this is manipulation of the navigational system. Most navigational systems require the user, e.g. driver, to be stopped before they are allowed to enter information such as destination address information. However, camera application module 2224, cooperating with one or more of the vehicle cameras, could determine that in the instance when the passenger is attempting to access the navigation system, the navigation system allows for the passenger to enter destination address information, even though the vehicle may be traveling at a rapid rate. In a similar manner, the camera can be capable of sensing direction from which a motion is coming, and change the accessibility to one or more functions of the console, where, for example, a 3D camera can be used to capture gestures in space. Capturing a three-dimensional gesture in space can be used in a similar manner to the above, where the vehicle control console functionality is modified based on who is trying to access it.

[0411] Context module 2216, cooperating with one or more of the user identification module, various profile data, and a camera, as well as the camera application module and associated database 2228, can also recognize the number of passengers in the car, and optionally, who the passengers are. Based on this information, the context module 2216 can change the environment depending upon who is in the car. This includes, but is not limited to, music, climate, seat position, and the like. For example, if the context module 2216 is able to determine, based on facial recognition and information in the profile data, that the user in the front passenger is 4'11" tall, and the passenger in the rear seat behind front seat passenger is 6'2", the context module 2216 could adjust the seat of the front seat passenger to provide greater leg room to the rear seat passenger. The context module 2216 can further be utilized to recognize, with the assistance of the camera application module 2224 and the expression database 2228 facial expressions of one or more of the vehicle occupants and adjust the cabin environment accordingly or even driving characteristics of the vehicle. For example, if it is determined that the vehicle occupants appear to be drowsy, the context module 2216 can instruct the HVAC system to lower the temperature of the vehicle

to assist with waking up the vehicle occupants. This could be especially important if it is determined that the driver is showing signs of drowsiness as discussed above.

[0412] In accordance with another optional embodiment, the camera application module 2224 can cooperate with one or more vehicle cameras and/or sensors such that gestures in the air, such as swipes, drags, or the like, that many people are already familiar with by virtue of smart phone technology and tablets, can be recognized without the user necessarily touching a touch screen. These recognized expression by the camera application module 2224 could then be used to control one or more functions of the vehicle, provide control of one or more touchscreen displays, and/or can be used in a virtual environment such as when a 3D touchscreen is provided that is manipulatable via one or more three-dimensional gestures or expressions.

[0413] The parental control module 2232 can also be utilized in conjunction with facial recognition technology and camera application module 2224 such that pictures of all the allowed drives and/or passengers are known by the various vehicle systems. In the event that a vehicle system doesn't recognize an occupant as one of the allowed individuals, the car control system can be managed by the context module 2216, and rules in the parental control module 2232, to take various actions, such as not allowing the engine to start, sending an alert via the vehicle or warning module 2208, or the like. In a similar manner, facial recognition of a driver can be used to limit what young drivers can do in the car, or to generate an automatic alert if certain "rules" are broken that are maintained in the parental control module 2232. For example, one or more rules in the parental control module 2232 may dictate that a young driver cannot drive more than 20 miles from home, cannot go on the interstate, or the like. In these instances, if these "rules" are broken, and in cooperation with the context module 2216 and vehicle reporting module 2208, various notifications can be sent to one or more destinations. In a similar manner, these "rules" could be used to regulate one or more car functions, such as the vehicle's maximum speed, number of occupants in the vehicle, the availability of multimedia/infotainment information, infotainment volumes settings, and the like. Engine/vehicle operational rules can also be established that restrict or otherwise regulate any vehicle function, and in cooperation with the context module 2216 can prohibit undesired or unwanted vehicle operations, e.g., flooring the accelerator.

[0414] As will be appreciated, the above situational control of the car's environment or access to various controls and/or entertainment and/or functionality, can be dynamic and based on who is in the car, where the car is located, driving conditions, e.g. weather conditions, and the like.

[0415] In accordance with another optional embodiment, the context module 2216 functionality can be extended to the user's smartphone, tablet, or other computing device. For example, the context module 2216 could have an extension application that runs on one or more of these user devices, to assist with integrating user context into the vehicle experience. For example, when a user does a search at the office or at home for directions to a particular destination, and then the context module 2216 determines that the user gets in their vehicle the directions and/or map that the user just searched for can be sent to the vehicle's navigation system. This functionality can be extended to cooperation with the smart calendar

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module 2212, such that if it is 20 minutes before a user's appointment, and the user looks up the address associated with information in the appointment, the context module 2216 could make the assumption that the user has requested the directions/map for this appointment, and ensure the vehicle has this information to assist with the user arriving at their destination in a timely manner.

[0416] In accordance with another optional embodiment, the breathalyzer 2220 need not necessarily be associated with the vehicle, but information from a remote breathalyzer, coupled with time proximity information be utilized to control various car functions. For example, if an intended driver blows into a remote breathalyzer 45 seconds before entering a vehicle, the context module 2216 could assume that the breathalyzer information is accurate, and in cooperation with the parental control module 2232, allow operation of the vehicle if the user is under a predetermined limit.

[0417] In a further example of the sophistication of the context module 2216, the context module 2216 can cooperate with vehicle GPS information to control one or more functions of the vehicle, as well as one or more other remote functions, such as functions at home. For example, as a user drives away from their home, the thermostat can be set to a, for example, lower predetermined temperature. When the user returns home, or is within a certain proximity of their home, the thermostat can be returned to a preset level. When the user is a certain distance from their home, the garage door may open upon checking, utilizing the user identification module 822, that the occupant of the vehicle is the homeowner. The inside garage door to the home can be opened, and upon the vehicle entering the garage, the outside garage door closed. As a further example of the knowledge and sophistication of the context module 2216, the context module can cooperate with one or more other systems such that context module 2216 is aware of what the user was watching in the home, so if the user leaves the home to go on a shopping trip during a football game, the car entertainment system can tune into the game and make it available to the user while they are on their shopping trip. In this manner, profile data can be extended to include information from the cable or TV provider and/or the cable or TV provider can be in communication with the vehicle. Expanding further upon these basic concepts, in any smart home environment, one or more smart home appliances are able to communicate with the vehicle to provide information to the driver about the need, for example, for various consumables. For example, a smart refrigerator could contact the vehicle and inform the driver that they are out of milk.

[0418] The context module 2216 is, however, not limited to user-centered context determination. Rather, the context module 2216 could be used in association with any vehicle functionality, and could be especially useful with automatic diagnostic assessments about a vehicle's "health" with this information usable to determine maintenance schedules, the need for repair parts, or the like. For example, the context module 2216 can cooperate with one or more of the vehicle sensors to determine when a vehicle needs maintenance. This information could further be used to determine which repair parts are required, send this list to the dealer or other repair shop that the user prefers, and also schedule an appointment, while taking into consideration any information in the user's calendar by the smart calendar module 2212. As will be appreciated, if this is done on a large scale, a car manufacturer can

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actually collect large sets of data to assess a particular make and model's design flaws, reliability, service requirements, fuel, and/or oil or other consumables consumption, or the like. The receipt of this information could result in automatic alerts being sent to one or more of the driver or another entity, such as a dealer, and as discussed, could also result in the automatic ordering of parts needed for repair and/or maintenance of the vehicle.

[0419] In accordance with another optional embodiment, the context module 2216 can use smart GPS information to assist the driver with arriving at their destination. For example, if a user contacts a restaurant via the vehicle communication system and/or a smartphone while in the vehicle, to make a reservation for dinner, the destination restaurant can return to the user, in a special message, GPS information associated with that restaurant's location. This message can be assessed and integrated into the necessary vehicle system, and in particular, the navigation system, such that navigational directions can be provided to the user to assist them with arrival at this destination restaurant. For example, on establishment of the communication session between the user and the restaurant, the user's phone number is known by the restaurant, and since this communication device, and hence the phone number, has been paired with the vehicle, the vehicle is capable of receiving the message, and hence the destination restaurant GPS information.

[0420] Figure 23 outlines an exemplary method of profile editing/modification. In particular, control begins in step S2300 and continues to step S2304. In step S2304, the user profile access request is received. Next, in step S2308, a determination is made if a profile already exists. If a profile does not exist, control continues to step S2312, where a new profile can be created. As discussed, this new profile can be created from scratch, or can be based on a global standard template, or based on some other template, for example, which can be that of another user. Control then continues to step S2316.

[0421] In step S2316, a verification could optionally be performed to ensure the user is authorized to access the profile. Similarly, in step S2320, one or more of biometric information, gesture recognition, feature recognition, device identification, password recognition, or the like, can be used for verification of the user before access to the requested profile is granted. Next, in step S2324, the authentication and exchanging of one or more keys can optionally be performed, such as the exchange of a public and/or private key, as discussed above. Then, in step S2328, if one or more of verification or authentication are successful, the user can be allowed to edit/modify the accessed profile. Upon completion of any edit/modifications, the profile can be saved in step S2332, with control continuing to step S2336.

[0422] In step S2336, the saved profile can optionally be transmitted to one or more other vehicles, or one or more other devices or locations on a communications network as discussed. Next, in step S2340, a determination is made as to whether the transmission of the profile to one or more other destinations provides a conflict, and whether or not the transferred profile should overwrite the local profile at the destination. If the local profile is to be overwritten, control continues to step S2444, where the local profile is overwritten by settings in the transmitted profile. Control then continues to step S2348, where the control sequence ends.

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[0423] If the local profile is not to be overwritten, control continues to step S2352, where any conflicting data can be reconciled. For example, a user can be queried to confirm whether or not they would like to overwrite the local profile, and/or provide information regarding which profile settings are in conflict, to allow the user to selectively determine which one of the local profile settings should be overwritten. This process can continue until all conflicts between the profiles have been resolved, where control continues to step S2356, where the control sequence ends.

[0424] Figure 24 outlines exemplary communications between a mobile device and a vehicle, and the transferring of a profile. In particular, with a mobile device, control begins in step S2404, and for the vehicle, control begins in step S2460. The vehicle, in step S2464, detects a presence of a mobile device, such as a via Bluetooth®, RFID, user request, or the like, and sends a message to the mobile device requesting establishment of communication in step S2408. In step S2412, the mobile device commences communication with the vehicle, through an optional pairing step between the mobile device and the vehicle in step S2468. One or more of the mobile device and vehicle, in step S2416, and step S2472, respectively, can optionally perform authentication and/or verification of the mobile device as discussed herein. In accordance with one exemplary embodiment, on establishment of communication between the mobile device and the vehicle, the vehicle in step S2476 receives the profile from the mobile device, which is sent in step S2420. It should be appreciated that optionally the profile need not be transferred from the mobile device to the vehicle, but the profile cold rather reside on the mobile device when, for example, the mobile device is paired with the vehicle. Next, in step S2480, the position of the mobile device in the vehicle is determined. Then, in step S2484, one or more vehicle features/controls are enabled based, at least partially, on the determined location of the mobile device within the vehicle. For example, certain vehicle features/controls may be enabled if it is determined if the mobile device is associated with the driver. Other features/controls may be enabled if it is determined that the profile is associated with user in the back seat. Control then continues to step S2488.

[0425] In step S2488, the mobile device is detected as leaving the vehicle. Upon this detection, the profile could optionally be updated, and if the profile is being stored on the mobile device, the updated profile transferred to the mobile device and/or a remote location, such as a cloud, with the updated profile being received by the mobile device and/or cloud in step S2424. Control then respectively continues to step S2428, and step S2492, where the control sequence ends.

[0426] Figure 25 outlines an exemplary method for transferring a profile. In particular, control begins in step S2500, and continues to step S2504, where the profile is transferred to another entity or directly to another vehicle. This can be done one or more of automatically, based on a user request, based on context, or based on other information such as the detection by a smart calendar of a user having an appointment with a rental agency for a leased vehicle. Next, in step S2508, one or more profiles that are available to be transferred are identified. Then, in step S2502, the identified profile(s) to be transferred are one or more of uploaded, transferred, or registered, or otherwise associated with one or more of an

entity, another vehicle, a communication device, or the like. Control then continues to step S2516, where the control sequence ends.

[0427] Figure 26 outlines an exemplary method for associating a profile with a reservation. In particular, control begins in step S2600, and continues to step S2604. In step S2604, the rental reservation is commenced. Next, in step S2608, the user is queried as to whether they would like to associate one or more profiles with the rental reservation. Then, in step S2612, the user is asked which profile(s) should be associated with which position in the vehicle, e.g. driver, alternate driver, passenger, or the like. Control then continues to step S2616.

[0428] In step S2616, the profile(s) that are to be associated with the rental reservation are located and uploaded and associated with the reservation. As will be appreciated, this uploading of the profiles can be done at the time of the reservation, and could also optionally be done immediately before the user takes control of the leased vehicle to ensure that the latest version of the profile is being associated with the leased vehicle. Then, in step S2620, when the user actually takes possession of the leased vehicle, their profile can be associated therewith. Control then continues to step S2624.

[0429] In step S2624, one or more ads can optionally be sent to the vehicle and/or user's communication device based on their profile, with these ads capable of continuing after completion of the rental reservation. As will be appreciated, and after completion of the rental reservation, these ads can be sent to one or more of the user's communication or other device, and/or the user's other vehicle(s). Control then continues to step S2628, where the control sequence ends.

[0430] Figure 27 outlines an exemplary method S2704, where vehicle reporting is turned on. Turning on vehicle reporting can be based on one or more of a request, such as a user request, insurance agency request, parent request, or the like. Vehicle reporting can further be turned on based on one or more of smart calendar information, a trigger, a context associated with one or more of the vehicle, driver, vehicle occupants, or the like. Next, in step S2708, a determination and/or query as to what type of information should be monitored is performed. As discussed, this can include one or more of number of passengers, speed information, vehicle location information, GPS information, and the like. Then, in step S2712, communication with the vehicle can optionally be established to allow for, for example, real-time control of one or more vehicle functions. Control then continues to step S2716.

[0431] In step S2716, it is determined whether information based on one or more of context, the above request, smart calendar information, and/or a trigger is needed. If information is needed, control continues to step S2728, with control otherwise continuing to step S2720. In step S2720, a determination is made as to whether reporting should end. If vehicle reporting is determined to have been completed, control continues to step S2724, where the control sequence ends. Otherwise, control jumps back to step S2716.

[0432] In step S2728, necessary/needed information based on one or more of the requests, smart calendar, trigger, or the like, is obtained. Then, in step S2732, this obtained information can optionally be forwarded to one or more destinations, can be stored, or can be used with, for example, a remote

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access device to assist with controlling one or more vehicle functions. Control then continues to step S2736, where the control sequence ends.

[0433] Figure 28 outlines an exemplary method of operation of a parental control mode. In particular, control begins in step S2800, and continues to step S2804. In step S2804, a determination is made as to whether the parental control mode should be activated. If the parental control mode should be activated, control continues to step S2816, with control otherwise continuing to step S2808. In step S2808, vehicle operation continues as normal with control continuing to step S2812, where the control sequence ends.

[0434] In step S2816, the parental control mode of the vehicle is activated. Next, in step S2820, certain vehicle functions can be limited based on "rules" associated with a parental control mode profile. Then, in step S2824, vehicle reporting, as discussed herein, can optionally be turned on. Additionally, in step S2828, smart context sensing can also be optionally turned on. As discussed, smart context sensing can be used to assist with ensuring children arrive home prior to their curfew, can be used to require a driver to take a breathalyzer after being parked outside of a restaurant/bar, or the like. Furthermore, in step S2832, one or more rules based functions can also be turned on that, for example, limit vehicle's performance, limit infotainment availability, and the like. Control then continues to step S2836.

[0435] In step S2836, communications can optionally be established directly with the vehicle, such as via a remote access device 2224. As discussed, this remote access device can be equipped with display that shows one or more operational states of the vehicle, such as speed, direction, location, images of occupants, infotainment information, or the like, such that a user using the remote access device has complete visibility as to one or more of the vehicle's operational conditions. This could be especially useful if a parent is trying to monitor a young driver's performance in the vehicle. Control then continues to step S2840 where parental control is deactivated and the control sequence ends.

[0436] Figure 29 outlines an exemplary method for global context awareness. In particular, control begins in step S2800 and continues to step S2804. In step S2804, global context awareness is enabled. As discussed, global context awareness allows the vehicle and vehicle systems and subsystems to integrate with one or more other systems, and optionally and in cooperation with context, can be used to exchange messages, control various functions, and the like. Next, in step S2808, the vehicle communicates with one or more other smart systems, such as a refrigerator, door locks, garage openers, calendars, cloud-based storage, or the like. Then, in step S2812, messages can be exchanged between the vehicle and the one or more other smart systems, with those messages including one or more of status information, notice information, or the like. An example of status information can include, for example, that the coffee pot at their home was left on. Control then continues to step S2816.

[0437] In step S2816, control messages can be exchanged between the vehicle and one or more other smart systems. For example, control information or control messages can include an instruction to turn off the coffee pot that was determined above to have been left on. Control messages can further include, for example, instructions to open or close a garage door, instructions to unlock an interior door, instructions to control an HVAC system in the user's house, or the like. In general, the vehicle is capable

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of communicating with any one or more smart systems, receiving information therefrom, and controlling one or more functions thereof, via, for example, a display in the vehicle and/or a user's communication device. Control then continues to step S2820 where the control sequence ends.

[0438] The exemplary systems and methods of this disclosure have been described in relation to configurable vehicle consoles and associated devices. However, to avoid unnecessarily obscuring the present disclosure, the preceding description omits a number of known structures and devices. This omission is not to be construed as a limitation of the scopes of the claims. Specific details are set forth to provide an understanding of the present disclosure. It should however be appreciated that the present disclosure may be practiced in a variety of ways beyond the specific detail set forth herein.

[0439] Furthermore, while the exemplary aspects, embodiments, options, and/or configurations illustrated herein show the various components of the system collocated, certain components of the system can be located remotely, at distant portions of a distributed network, such as a LAN and/or the Internet, or within a dedicated system. Thus, it should be appreciated, that the components of the system can be combined in to one or more devices, such as a Personal Computer (PC), laptop, netbook, smart phone, Personal Digital Assistant (PDA), tablet, etc., or collocated on a particular node of a distributed network, such as an analog and/or digital telecommunications network, a packet-switch network, or a circuit-switched network. It will be appreciated from the preceding description, and for reasons of computational efficiency, that the components of the system can be arranged at any location within a distributed network of components without affecting the operation of the system. For example, the various components can be located in a switch such as a PBX and media server, gateway, in one or more communications devices, at one or more users' premises, or some combination thereof. Similarly, one or more functional portions of the system could be distributed between a telecommunications device(s) and an associated computing device.

[0440] Furthermore, it should be appreciated that the various links connecting the elements can be wired or wireless links, or any combination thereof, or any other known or later developed element(s) that is capable of supplying and/or communicating data to and from the connected elements. These wired or wireless links can also be secure links and may be capable of communicating encrypted information. Transmission media used as links, for example, can be any suitable carrier for electrical signals, including coaxial cables, copper wire and fiber optics, and may take the form of acoustic or light waves, such as those generated during radio-wave and infra-red data communications.

[0441] Also, while the flowcharts have been discussed and illustrated in relation to a particular sequence of events, it should be appreciated that changes, additions, and omissions to this sequence can occur without materially affecting the operation of the disclosed embodiments, configuration, and aspects.

[0442] A number of variations and modifications of the disclosure can be used. It would be possible to provide for some features of the disclosure without providing others.

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[0443] It should be appreciated that the various processing modules (e.g., processors, vehicle systems, vehicle subsystems, modules, etc.), for example, can perform, monitor, and/or control critical and non-critical tasks, functions, and operations, such as interaction with and/or monitoring and/or control of critical and non-critical on board sensors and vehicle operations (e.g., engine, transmission, throttle, brake power assist/ brake lock-up, electronic suspension, traction and stability control, parallel parking assistance, occupant protection systems, power steering assistance, self-diagnostics, event data recorders, steer-by-wire and/or brake-by-wire operations, vehicle-to-vehicle interactions, vehicle-to-infrastructure interactions, partial and/or full automation, telematics, navigation/SPS, multimedia systems, audio systems, rear seat entertainment systems, game consoles, tuners (SDR), heads-up display, night vision, lane departure warning, adaptive cruise control, adaptive headlights, collision warning, blind spot sensors, park/reverse assistance, tire pressure monitoring, traffic signal recognition, vehicle tracking (e.g., LoJack™), dashboard/instrument cluster, lights, seats, climate control, voice recognition, remote keyless entry, security alarm systems, and wiper/window control). Processing modules can be enclosed in an advanced EMI-shielded enclosure containing multiple expansion modules. Processing modules can have a "black box" or flight data recorder technology, containing an event (or driving history) recorder (containing operational information collected from vehicle on board sensors and provided by nearby or roadside signal transmitters), a crash survivable memory unit, an integrated controller and circuitry board, and network interfaces.

[0444] Critical system controller(s) can control, monitor, and/or operate critical systems. Critical systems may include one or more of (depending on the particular vehicle) monitoring, controlling, operating the ECU, TCU, door settings, window settings, blind spot monitor, monitoring, controlling, operating the safety equipment (e.g., airbag deployment control unit, collision sensor, nearby object sensing system, seat belt control unit, sensors for setting the seat belt, etc.), monitoring and/or controlling certain critical sensors such as the power source controller and energy output sensor, engine temperature, oil pressure sensing, hydraulic pressure sensors, sensors for headlight and other lights (e.g., emergency light, brake light, parking light, fog light, interior or passenger compartment light, and/or tail light state (on or off)), vehicle control system sensors, wireless network sensor (e.g., Wi-Fi and/or Bluetooth sensors, etc.), cellular data sensor, and/or steering/torque sensor, controlling the operation of the engine (e.g., ignition, etc.), head light control unit, power steering, display panel, switch state control unit, power control unit, and/or brake control unit, and/or issuing alerts to a user and/or remote monitoring entity of potential problems with a vehicle operation.

[0445] Non-critical system controller(s) can control, monitor, and/or operate non-critical systems. Non-critical systems may include one or more of (depending on the particular vehicle) monitoring, controlling, operating a non-critical system, emissions control, seating system controller and sensor, infotainment/entertainment system, monitoring certain non-critical sensors such as ambient (outdoor) weather readings (e.g., temperature, precipitation, wind speed, and the like), odometer reading sensor, trip mileage reading sensor, road condition sensors (e.g., wet, icy, etc.), radar transmitter/receiver output,

brake wear sensor, oxygen sensor, ambient lighting sensor, vision system sensor, ranging sensor, parking sensor, heating, venting, and air conditioning (HVAC) system and sensor, water sensor, air-fuel ratio meter, hall effect sensor, microphone, radio frequency (RF) sensor, and/or infrared (IR) sensor.

[0446] It is an aspect of the present disclosure that one or more of the non-critical components and/or systems provided herein may become critical components and/or systems, and/or vice versa, depending on a context associated with the vehicle.

[0447] Optionally, the systems and methods of this disclosure can be implemented in conjunction with a special purpose computer, a programmed microprocessor or microcontroller and peripheral integrated circuit element(s), an ASIC or other integrated circuit, a digital signal processor, a hard-wired electronic or logic circuit such as discrete element circuit, a programmable logic device or gate array such as PLD, PLA, FPGA, PAL, special purpose computer, any comparable means, or the like. In general, any device(s) or means capable of implementing the methodology illustrated herein can be used to implement the various aspects of this disclosure. Exemplary hardware that can be used for the disclosed embodiments, configurations and aspects includes computers, handheld devices, telephones (e.g., cellular, Internet enabled, digital, analog, hybrids, and others), and other hardware known in the art. Some of these devices include processors (e.g., a single or multiple microprocessors), memory, nonvolatile storage, input devices, and output devices. Furthermore, alternative software implementations including, but not limited to, distributed processing or component/object distributed processing, parallel processing, or virtual machine processing can also be constructed to implement the methods described herein.

[0448] In yet another embodiment, the disclosed methods may be readily implemented in conjunction with software using object or object-oriented software development environments that provide portable source code that can be used on a variety of computer or workstation platforms. Alternatively, the disclosed system may be implemented partially or fully in hardware using standard logic circuits or VLSI design. Whether software or hardware is used to implement the systems in accordance with this disclosure is dependent on the speed and/or efficiency requirements of the system, the particular function, and the particular software or hardware systems or microprocessor or microcomputer systems being utilized.

[0449] In yet another embodiment, the disclosed methods may be partially implemented in software that can be stored on a storage medium, executed on programmed general-purpose computer with the cooperation of a controller and memory, a special purpose computer, a microprocessor, or the like. In these instances, the systems and methods of this disclosure can be implemented as program embedded on personal computer such as an applet, JAVA® or CGI script, as a resource residing on a server or computer workstation, as a routine embedded in a dedicated measurement system, system component, or the like. The system can also be implemented by physically incorporating the system and/or method into a software and/or hardware system.

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[0450] Examples of the processors as described herein may include, but are not limited to, at least one of Qualcomm® Snapdragon® 800 and 801, Qualcomm® Snapdragon® 610 and 615 with 4G LTE Integration and 64-bit computing, Apple® A7 processor with 64-bit architecture, Apple® M7 motion coprocessors, Samsung® Exynos® series, the Intel® Core™ family of processors, the Intel® Xeon® family of processors, the Intel® Atom™ family of processors, the Intel Itanium® family of processors, Intel® Core® i5-4670K and i7-4770K 22nm Haswell, Intel® Core® i5-3570K 22nm Ivy Bridge, the AMD® FX™ family of processors, AMD® FX-4300, FX-6300, and FX-8350 32nm Vishera, AMD® Kaveri processors, Texas Instruments® Jacinto C6000™ automotive infotainment processors, Texas Instruments® OMAP™ automotive-grade mobile processors, ARM® Cortex™-M processors, ARM® Cortex-A and ARM926EJ-S™ processors, other industry-equivalent processors, and may perform computational functions using any known or future-developed standard, instruction set, libraries, and/or architecture.

[0451] Although the present disclosure describes components and functions implemented in the aspects, embodiments, and/or configurations with reference to particular standards and protocols, the aspects, embodiments, and/or configurations are not limited to such standards and protocols. Other similar standards and protocols not mentioned herein are in existence and are considered to be included in the present disclosure. Moreover, the standards and protocols mentioned herein and other similar standards and protocols not mentioned herein are periodically superseded by faster or more effective equivalents having essentially the same functions. Such replacement standards and protocols having the same functions are considered equivalents included in the present disclosure.

[0452] The present disclosure, in various aspects, embodiments, and/or configurations, includes components, methods, processes, systems and/or apparatus substantially as depicted and described herein, including various aspects, embodiments, configurations embodiments, subcombinations, and/or subsets thereof. Those of skill in the art will understand how to make and use the disclosed aspects, embodiments, and/or configurations after understanding the present disclosure. The present disclosure, in various aspects, embodiments, and/or configurations, includes providing devices and processes in the absence of items not depicted and/or described herein or in various aspects, embodiments, and/or configurations hereof, including in the absence of such items as may have been used in previous devices or processes, e.g., for improving performance, achieving ease and\or reducing cost of implementation.

[0453] The foregoing discussion has been presented for purposes of illustration and description. The foregoing is not intended to limit the disclosure to the form or forms disclosed herein. In the foregoing Detailed Description for example, various features of the disclosure are grouped together in one or more aspects, embodiments, and/or configurations for the purpose of streamlining the disclosure. The features of the aspects, embodiments, and/or configurations of the disclosure may be combined in alternate aspects, embodiments, and/or configurations other than those discussed above. This method of disclosure is not to be interpreted as reflecting an intention that the claims require more features than are expressly recited in each claim. Rather, as the following claims reflect, inventive aspects lie in less than

all features of a single foregoing disclosed aspect, embodiment, and/or configuration. Thus, the following claims are hereby incorporated into this Detailed Description, with each claim standing on its own as a separate preferred embodiment of the disclosure.

[0454] Moreover, though the description has included description of one or more aspects, embodiments, and/or configurations and certain variations and modifications, other variations, combinations, and modifications are within the scope of the disclosure, e.g., as may be within the skill and knowledge of those in the art, after understanding the present disclosure. It is intended to obtain rights which include alternative aspects, embodiments, and/or configurations to the extent permitted, including alternate, interchangeable and/or equivalent structures, functions, ranges or steps to those claimed, whether or not such alternate, interchangeable and/or equivalent structures, functions, ranges or steps are disclosed herein, and without intending to publicly dedicate any patentable subject matter.

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What is claimed is:

1. A system to access one or more user profiles that govern one or more vehicle functions comprising:

a processor and verification module adapted to verify, using one or more of biometric information, gesture recognition, facial recognition and device identification information, that a user has authority to access the one or more user profiles, the one or more profiles being stored in one or more of a vehicle, a cloud and a communications device; and

an edit module adapted to allow the user to make one or more edits to the one or more user profiles.

2. The system of claim 1, further comprising one or more templates on which the one or more user profiles are based.

3. The system of claim 1, wherein the verification module further receives a request to access a specific user profile, the user profile storing preferences for the user that govern one or more of vehicle functions, vehicle preferences and vehicle infotainment settings.

4. The system of claim 1, further comprising an encryption module adapted to perform authentication of the user.

5. The system of claim 1, further comprising a profile subsystem adapted to resolve conflicts between the one or more edits and the one or more user profiles.

6. The system of claim 1, wherein the one or more user profiles are at least partially encrypted.

7. The system of claim 1, wherein the one or more user profiles include one or more of: vehicle preferences, seat settings, HVAC settings, recorded settings, geographic location information, mobile device information, mobile device electronic addresses, Internet browsing history and content, application store selections, user settings, enabled features, disabled features, private information, social network information, user presence information, user business account information, secure data, biometric information, audio information from on board microphones, video information from on board cameras, Internet browsing history and browsed content from using an on board computer, local area network settings, electronic map information, user purchasing preferences, user driving behavior and preferences, user behavior with respect to a selected object, user socioeconomic status, user residence and business addresses, user communication devices and electronic addresses therefor, user biometric

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information and other user identification information, user family members and, for each family member, the foregoing information.

8. The system of claim 1, wherein in at least one of the one or more user templates is based on a global standard template, wherein the global standard template is common among one or more of vehicle manufacturers, company vehicles and a geographic area.

9. The system of claim 1, wherein the one or more user profiles can be transferred from one or more of car-to-car, device-to-car, car-to-device, car-to-cloud, and cloud-to-car.

10. The system of claim 9, wherein the device is a mobile communications device.

11. A method to access one or more user profiles that govern one or more vehicle functions comprising:

verifying, using a processor, one or more of biometric information, gesture recognition, facial recognition and device identification information, that a user has authority to access the one or more user profiles, the one or more profiles being stored in one or more of a vehicle, a cloud and a communications device; and

allowing the user to make one or more edits to the one or more user profiles.

12. The method of claim 11, wherein the one or more user profiles are based on one or more templates.

13. The method of claim 11, further comprising receiving a request to access a specific user profile, the user profile storing preferences for the user that govern one or more of vehicle functions, vehicle preferences and vehicle infotainment settings.

14. The method of claim 11, further comprising performing authentication of the user.

15. The method of claim 11, further comprising resolving conflicts between the one or more edits and the one or more user profiles.

16. The method of claim 11, wherein the one or more user profiles are at least partially encrypted.

17. The method of claim 11, wherein the one or more user profiles include one or more of: vehicle preferences, seat settings, HVAC settings, recorded settings, geographic location information, mobile device information, mobile device electronic addresses, Internet browsing history and content,

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application store selections, user settings, enabled features, disabled features, private information, social network information, user presence information, user business account information, secure data, biometric information, audio information from on board microphones, video information from on board cameras, Internet browsing history and browsed content from using an on board computer, local area network settings, electronic map information, user purchasing preferences, user driving behavior and preferences, user behavior with respect to a selected object, user socioeconomic status, user residence and business addresses, user communication devices and electronic addresses therefor, user biometric information and other user identification information, user family members and, for each family member, the foregoing information.

18. The method of claim 11, wherein in at least one of the one or more user templates is based on a global standard template, wherein the global standard template is common among one or more of vehicle manufacturers, company vehicles and a geographic area.

19. The method of claim 11, wherein the one or more user profiles can be transferred from one or more of car-to-car, device-to-car, car-to-device, car-to-cloud, and cloud-to-car.

20. The method of claim 19, wherein the device is a mobile communications device.

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ABSTRACT

A system to access one or more user profiles that govern one or more vehicle functions. The system cooperates with a processor and verification module which are adapted to verify, using one or more of biometric information, gesture recognition, facial recognition and device identification information, that a user has authority to access the one or more user profiles, where the one or more profiles are stored in one or more of a vehicle, a cloud and a communications device. An edit module is further provided and adapted to allow the user to make one or more edits to the one or more user profiles.

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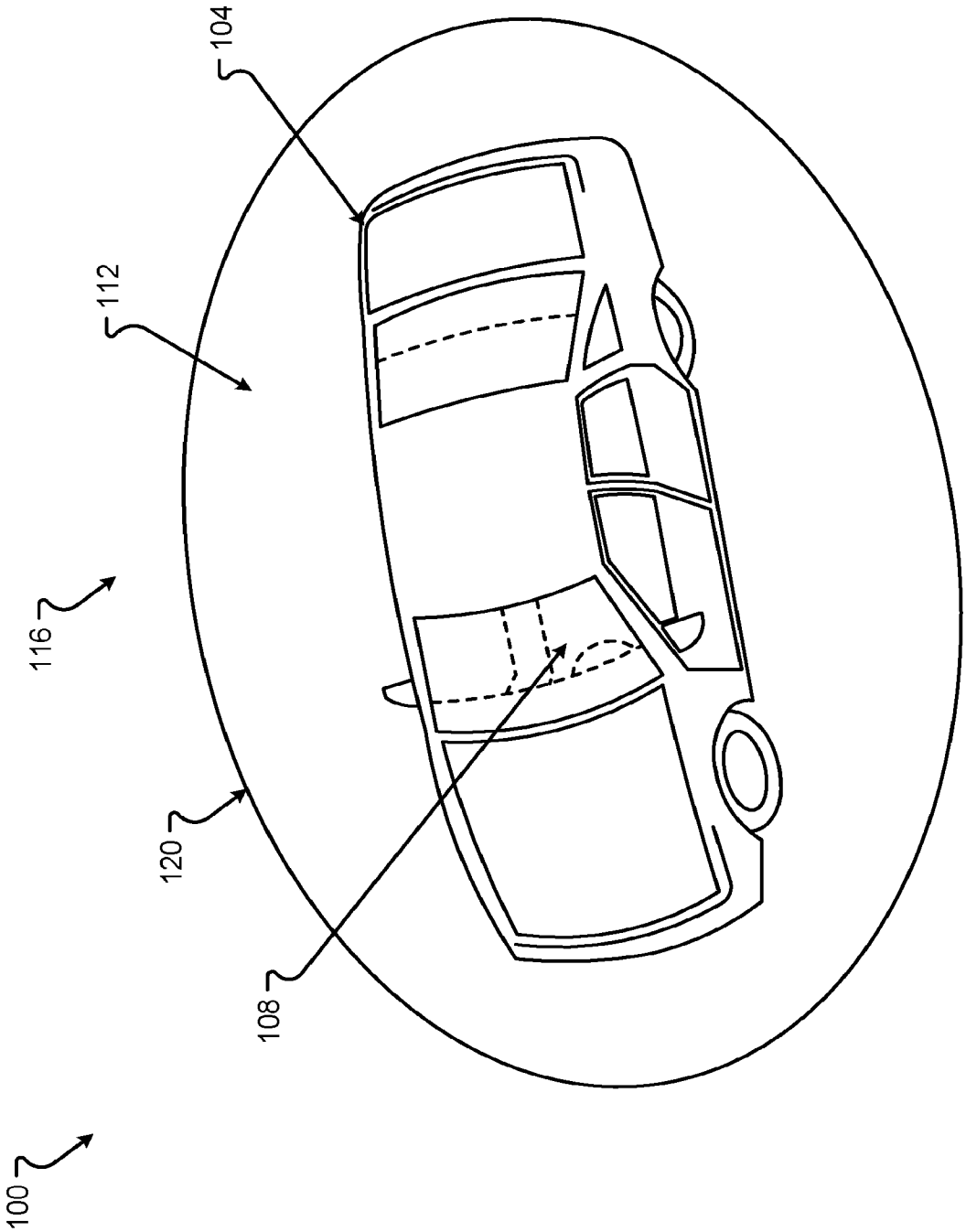


Fig. 1

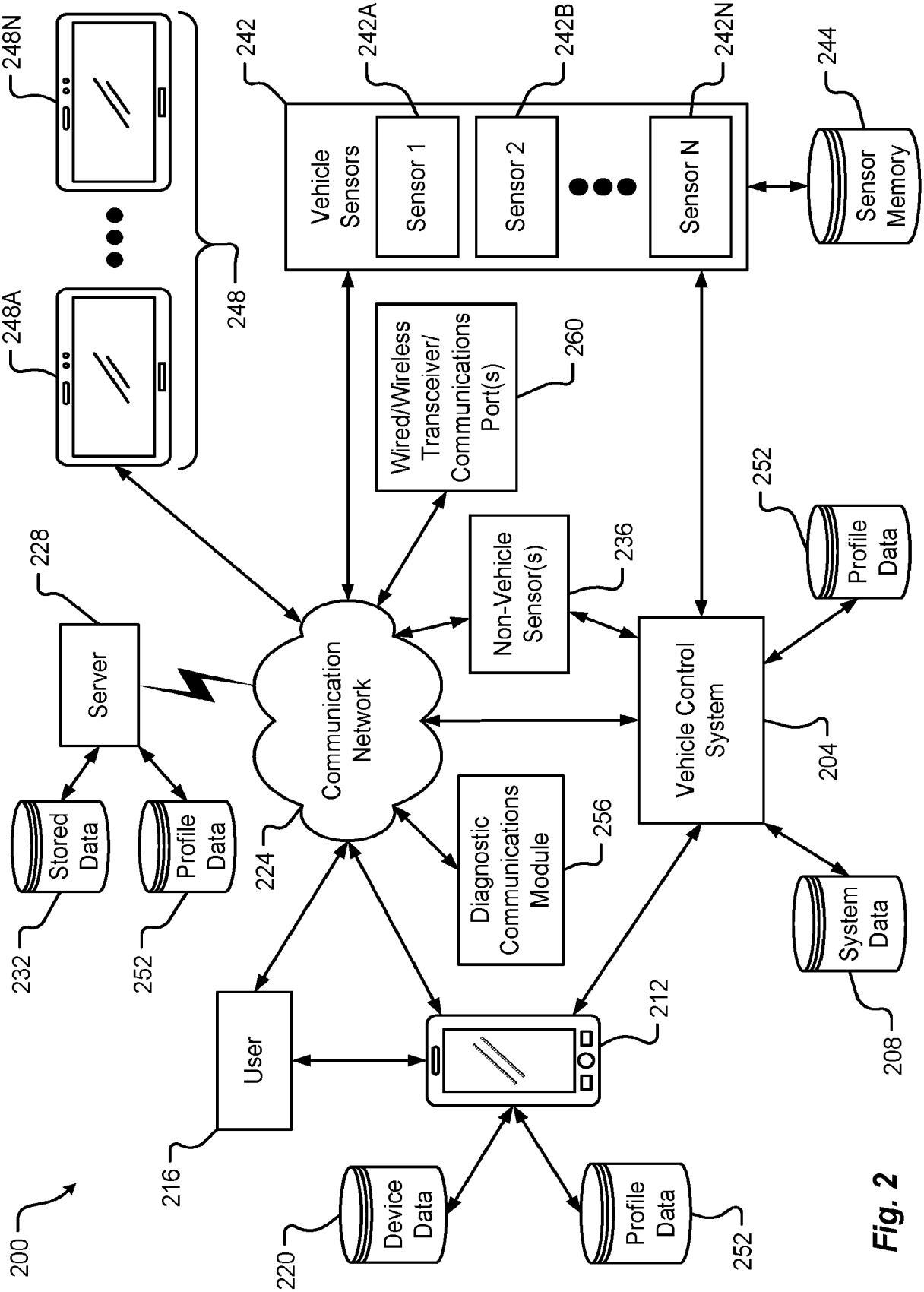

200
248N
248A
248
242
242A
242B
242N
244
Vehicle Sensors
Sensor 1
Sensor 2
Sensor N
Sensor Memory
Wired/Wireless Transceiver/ Communications Port(s)
260
228
Server
Communication Network
224
Non-Vehicle Sensor(s)
236
252
Profile Data
Vehicle Control System
204
Stored Data
232
Profile Data
252
Diagnostic Communications Module
256
System Data
208
User
216
212
Device Data
220
Profile Data
252

Fig. 2

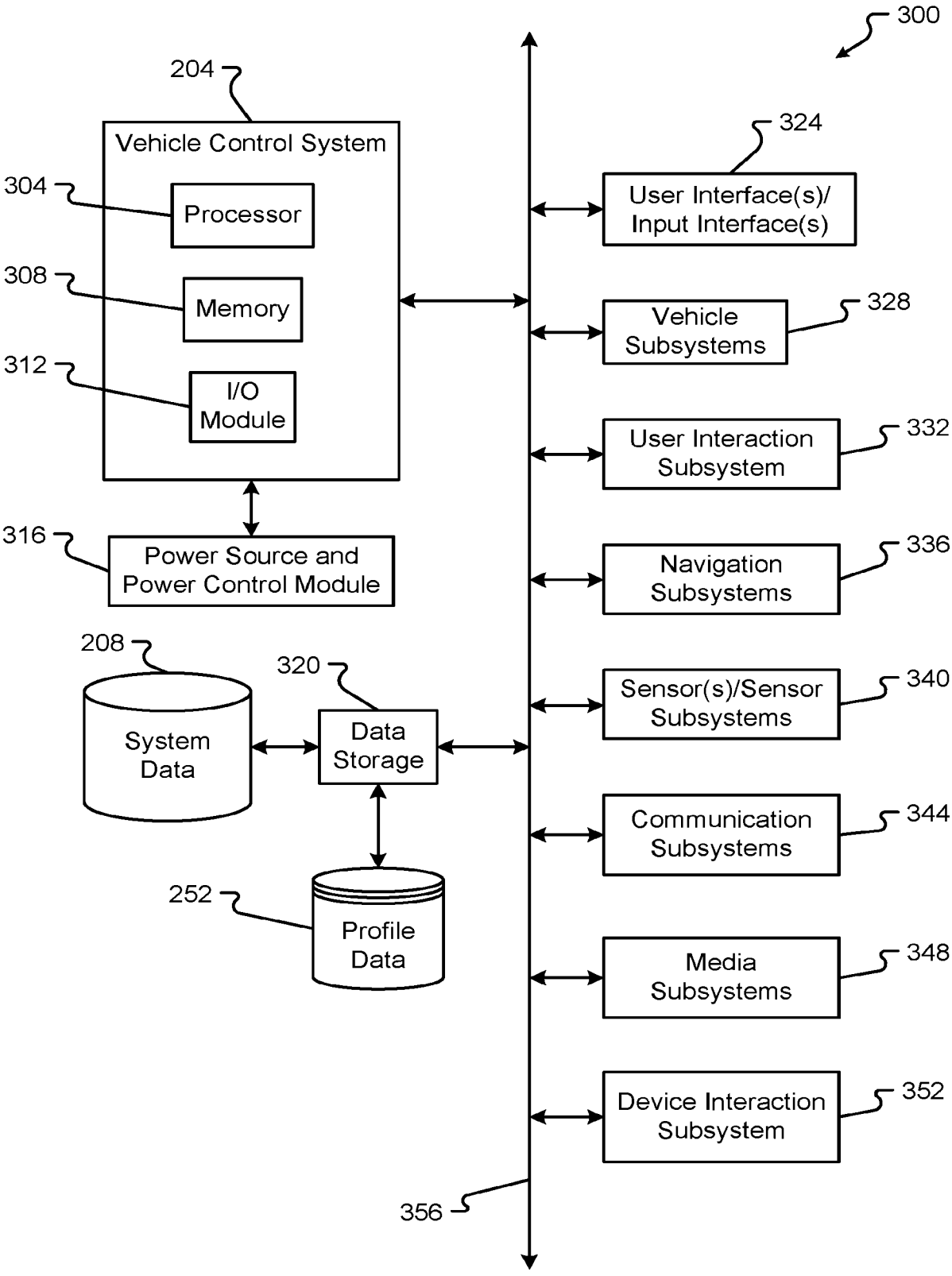

300
204
Vehicle Control System
304
Processor
308
Memory
312
I/O Module
316
Power Source and Power Control Module
208
System Data
320
Data Storage
252
Profile Data
356
324
User Interface(s)/ Input Interface(s)
328
Vehicle Subsystems
332
User Interaction Subsystem
336
Navigation Subsystems
340
Sensor(s)/Sensor Subsystems
344
Communication Subsystems
348
Media Subsystems
352
Device Interaction Subsystem

Fig. 3

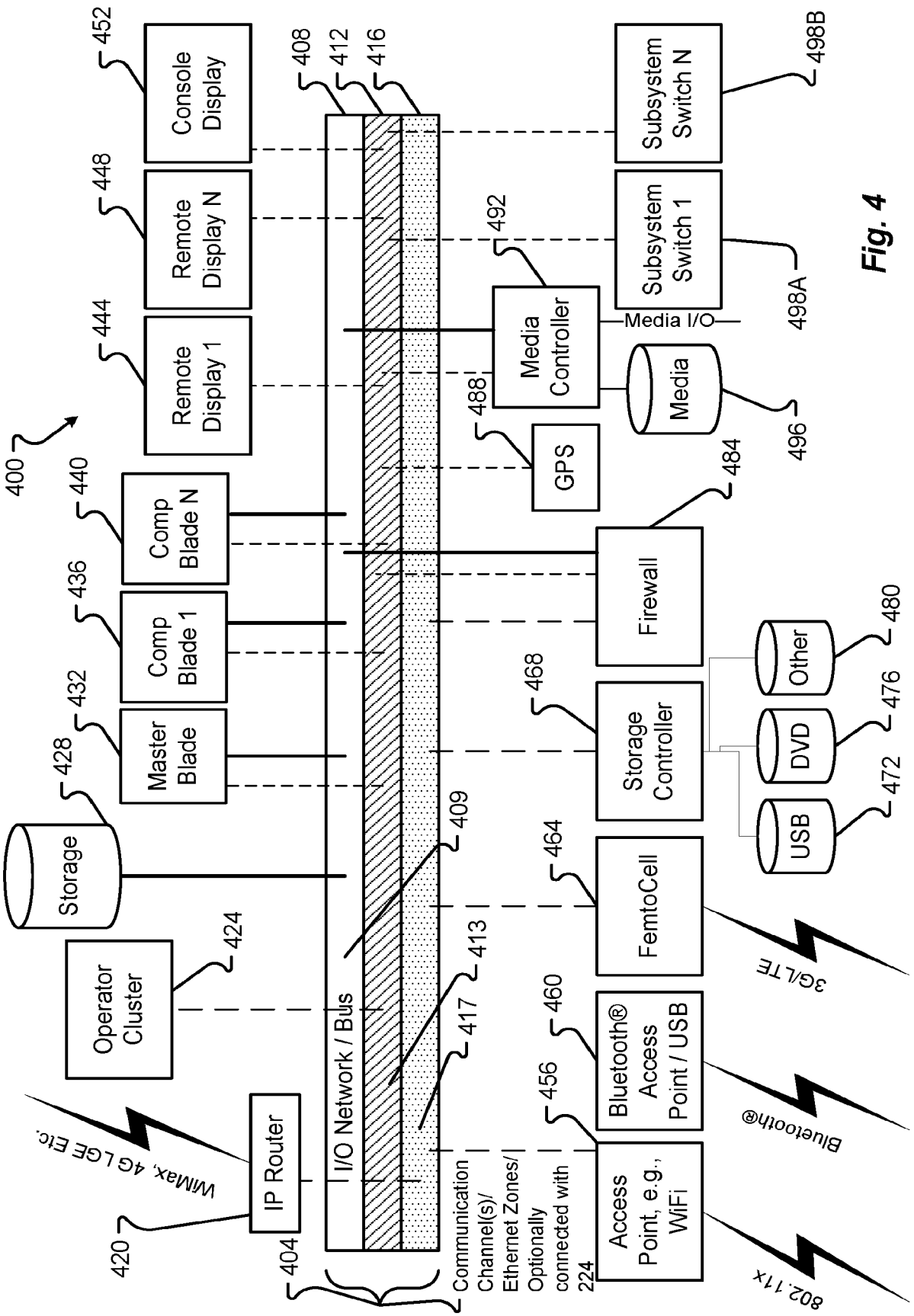

400
420
WiMax, 4G LGE Etc.
IP Router
404
Operator Cluster
424
Storage
428
Master Blade
432
Comp Blade 1
436
Comp Blade N
440
Remote Display 1
444
Remote Display N
448
Console Display
452
I/O Network / Bus
408
412
416
409
413
417
Communication Channel(s)/ Ethernet Zones/ Optionally connected with 224
Access Point, e.g., WiFi
456
802.11x
Bluetooth® Access Point / USB
460
Bluetooth®
FemtoCell
464
3G/LTE
Storage Controller
468
Firewall
484
GPS
488
Media Controller
492
Media I/O
Media
496
Subsystem Switch 1
498A
Subsystem Switch N
498B
USB
472
DVD
476
Other
480

Fig. 4

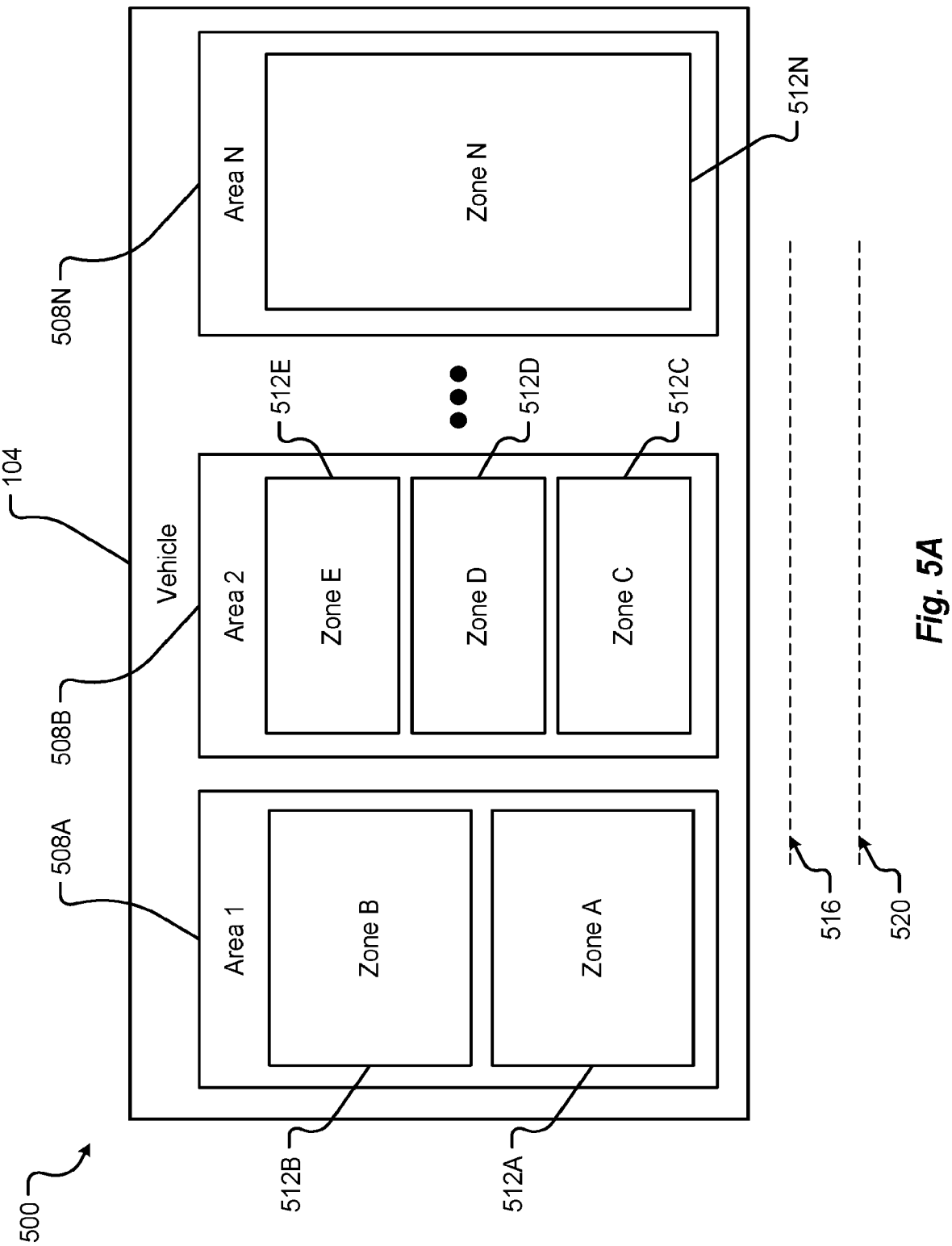

500
104
Vehicle
508A
508B
508N
Area 1
Area 2
Area N
Zone B
Zone A
Zone E
Zone D
Zone C
Zone N
512A
512B
512C
512D
512E
512N
516
520

Fig. 5A

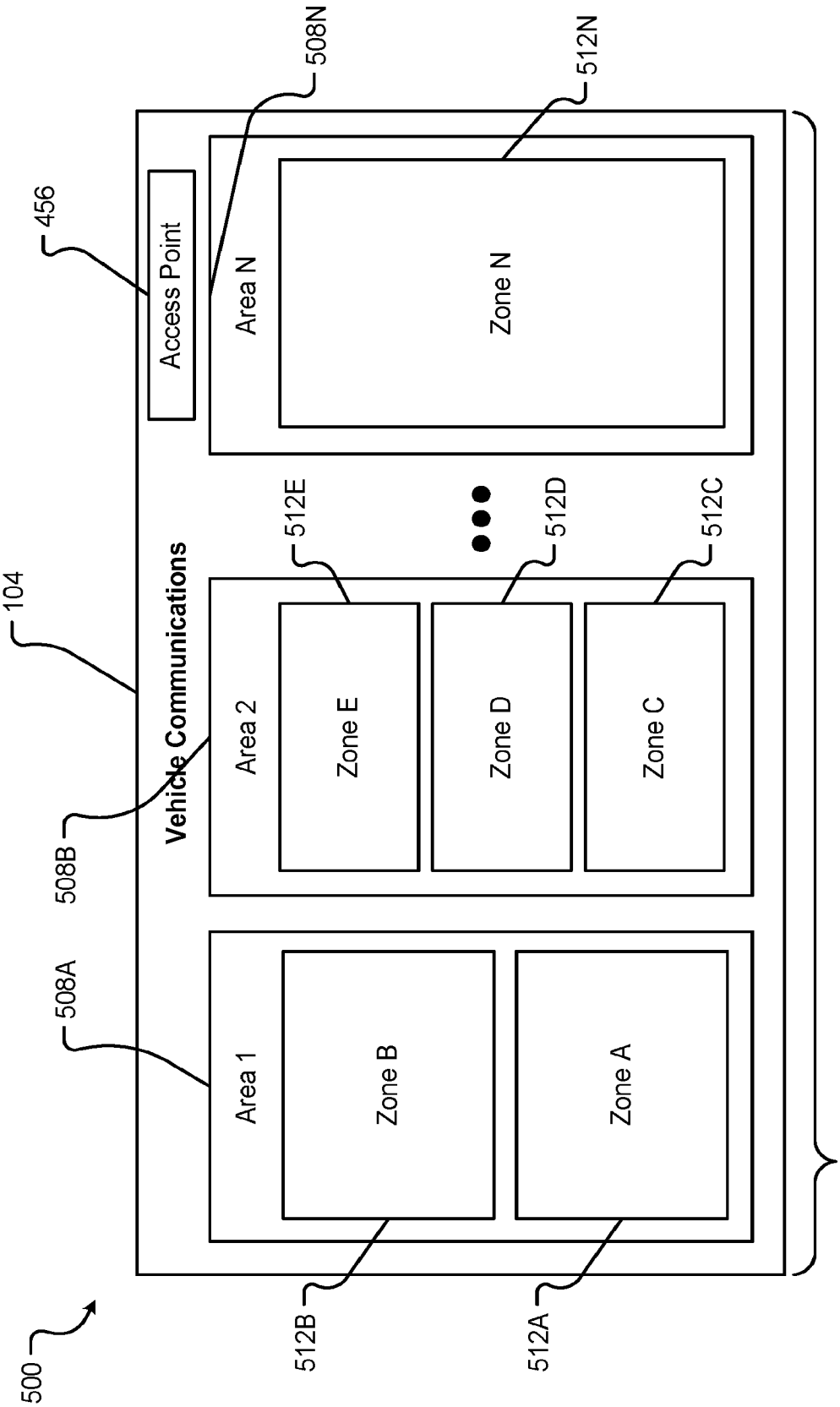

500
104
456
Access Point
508N
512N
Area N
Zone N
Vehicle Communications
512E
512D
512C
508B
Area 2
Zone E
Zone D
Zone C
508A
Area 1
Zone B
Zone A
512B
512A
Internal Vehicle Communications between Vehicle and one or more devices, or between devices
One or more of: Bluetooth®, NFC, WiFi, Mobile Hotspot, Point-to-Point, Point-to-Multiple Other Points, etc.

Fig. 5B

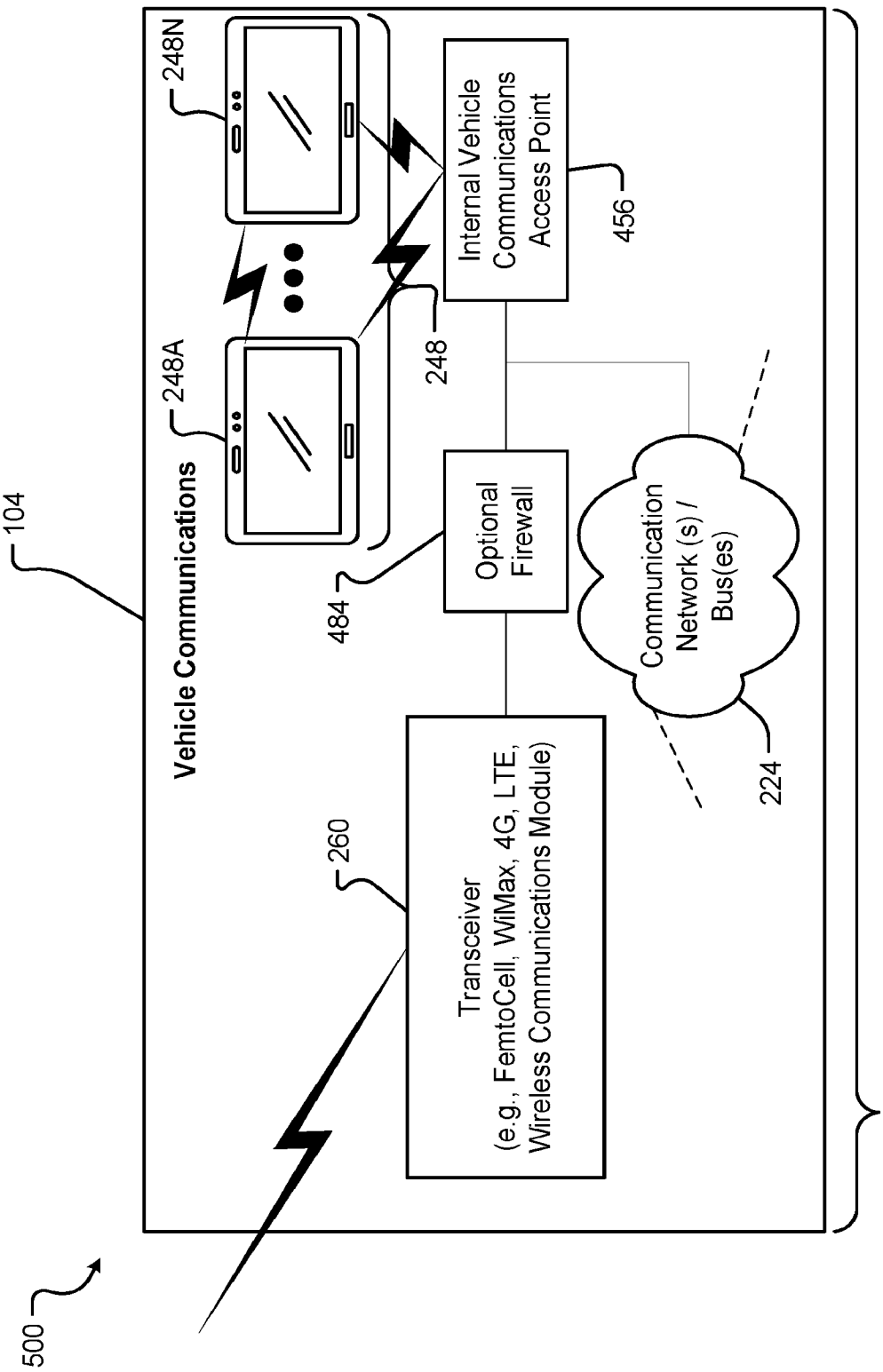

500
104
Vehicle Communications
248A
248N
248
Internal Vehicle Communications Access Point
456
484
Optional Firewall
260
Transceiver (e.g., FemtoCell, WiMax, 4G, LTE, Wireless Communications Module)
Communication Network (s) / Bus(es)
224
Internal Vehicle Communications between Vehicle and one or more devices, or between devices
One or more of: Bluetooth®, NFC, WiFi, Mobile Hotspot, Ethernet, 802.11(x), Point-to-Point, Point-to-Multiple Other Points, etc.

Fig. 5C

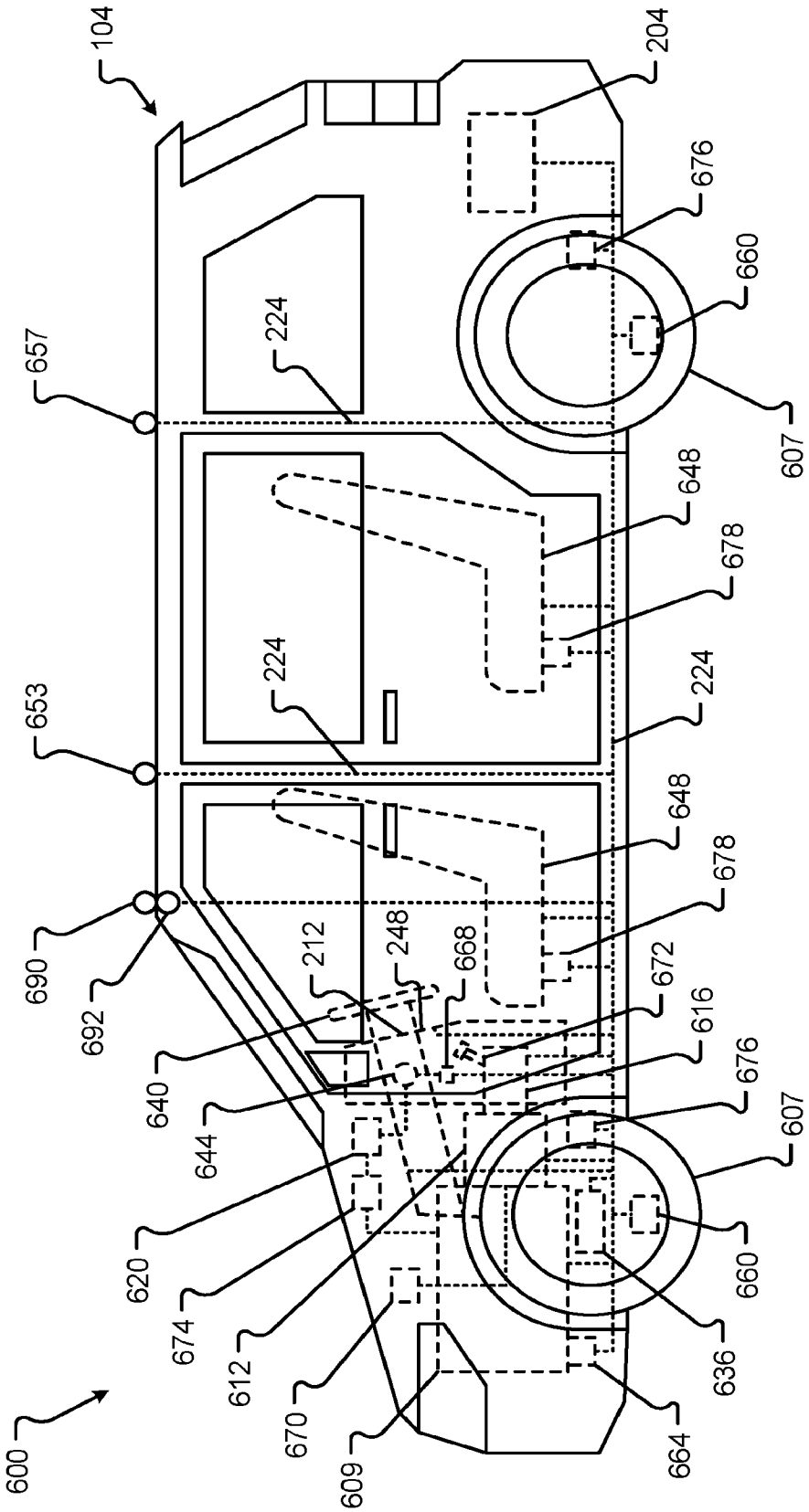

104
204
676
660
607
224
657
648
678
653
690
692
212
248
668
672
616
640
644
620
674
612
670
609
664
636
600

Fig. 6A

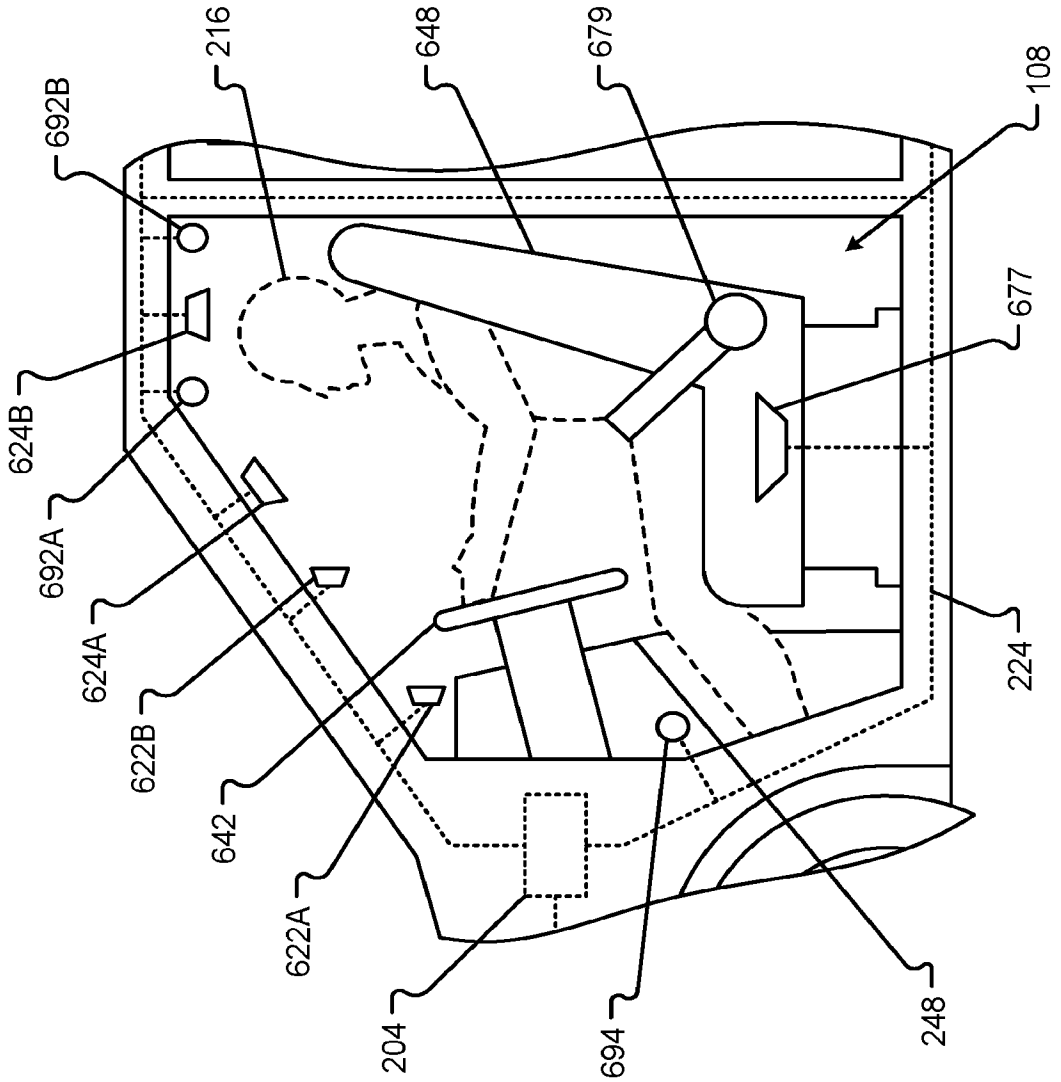

692B
216
648
679
108
624B
677
692A
624A
622B
642
622A
224
204
694
248

Fig. 6B

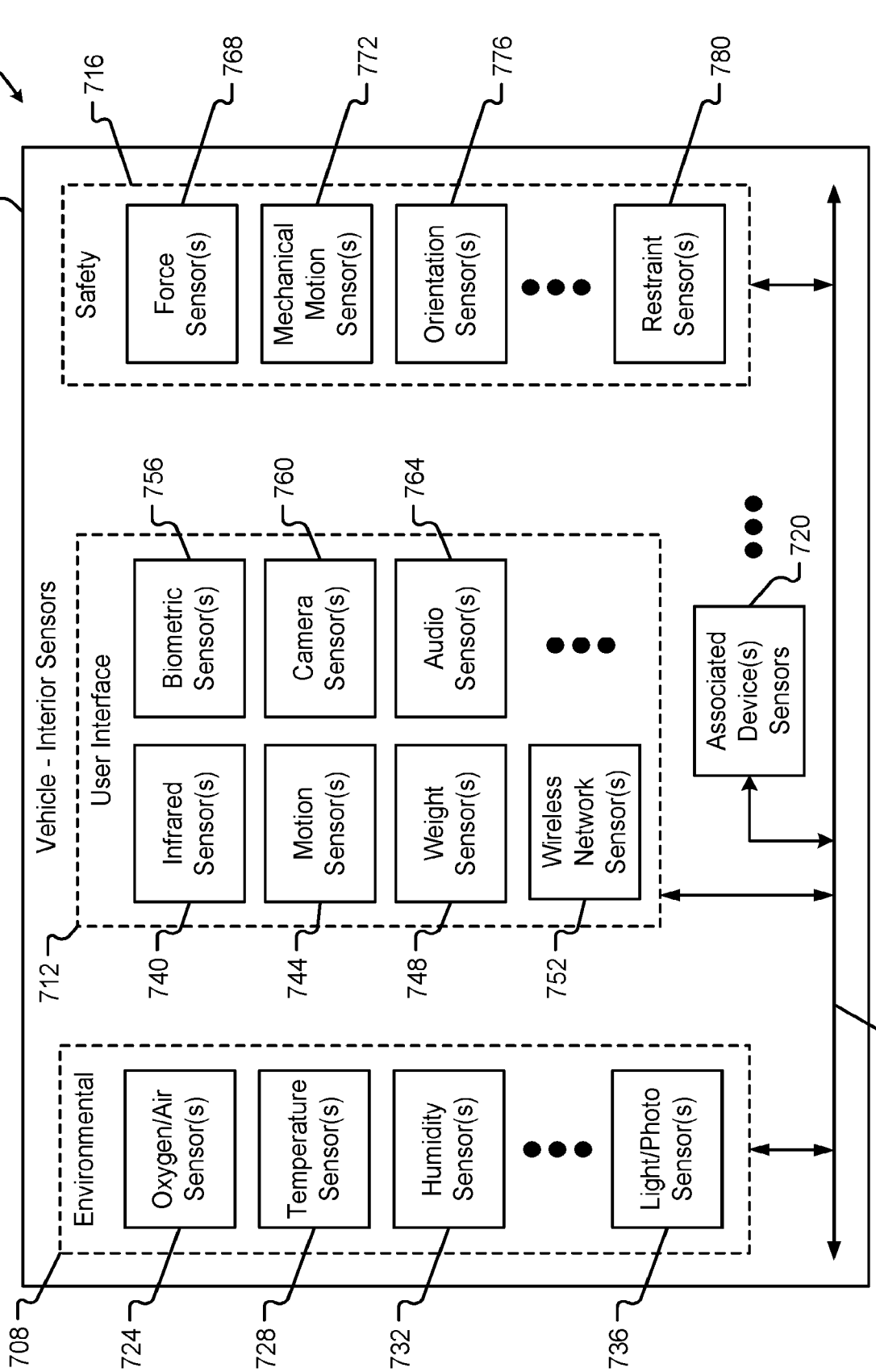

340
104
716
768
772
776
780
Safety
Force Sensor(s)
Mechanical Motion Sensor(s)
Orientation Sensor(s)
Restraint Sensor(s)
Vehicle - Interior Sensors
User Interface
712
756
760
764
Biometric Sensor(s)
Camera Sensor(s)
Audio Sensor(s)
Infrared Sensor(s)
Motion Sensor(s)
Weight Sensor(s)
Wireless Network Sensor(s)
740
744
748
752
720
Associated Device(s) Sensors
356
Environmental
Oxygen/Air Sensor(s)
Temperature Sensor(s)
Humidity Sensor(s)
Light/Photo Sensor(s)
708
724
728
732
736

Fig. 7A

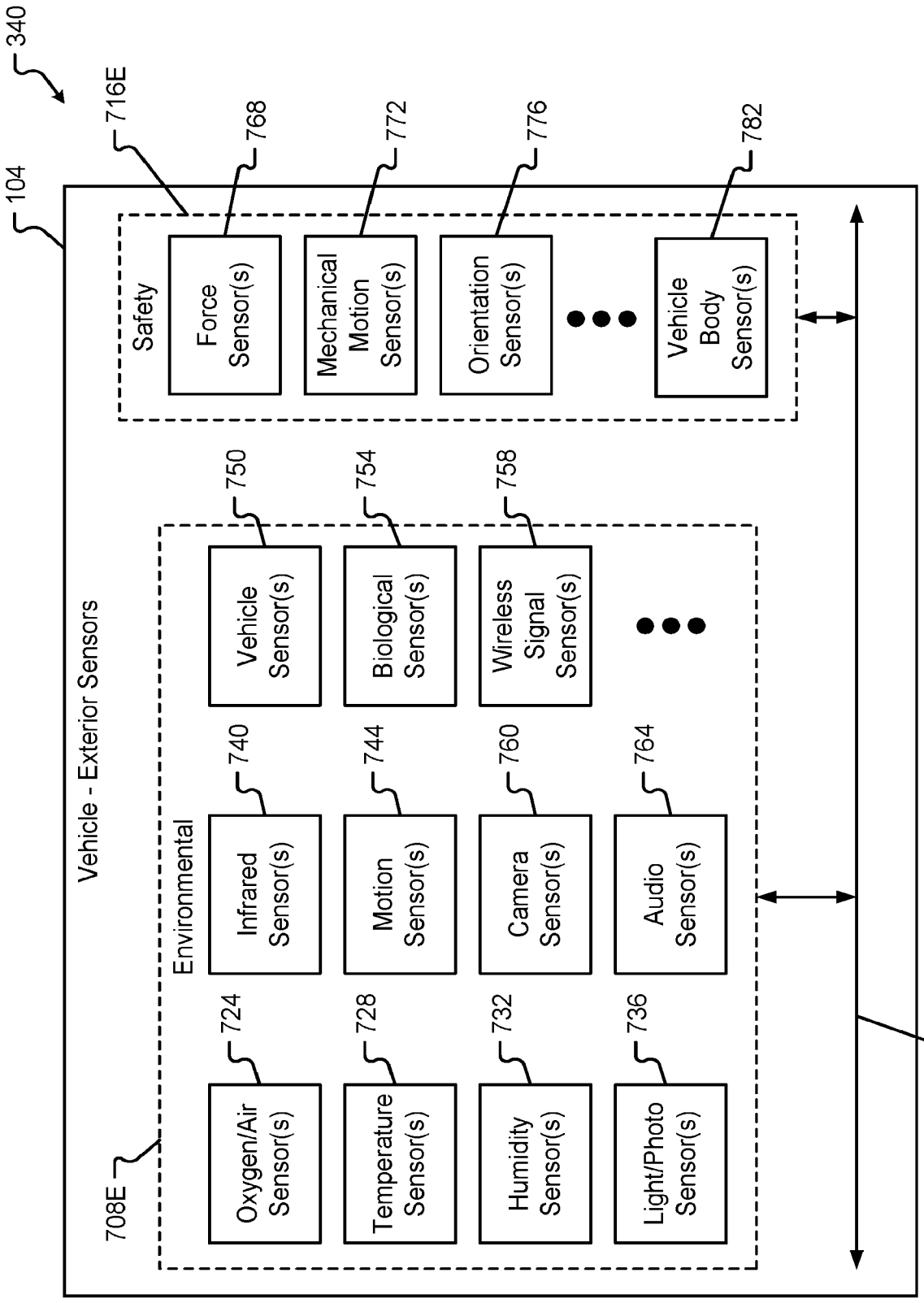

340
716E
104
768
772
776
782
Safety
Force Sensor(s)
Mechanical Motion Sensor(s)
Orientation Sensor(s)
Vehicle Body Sensor(s)
Vehicle - Exterior Sensors
750
754
758
Vehicle Sensor(s)
Biological Sensor(s)
Wireless Signal Sensor(s)
Environmental
740
744
760
764
Infrared Sensor(s)
Motion Sensor(s)
Camera Sensor(s)
Audio Sensor(s)
724
728
732
736
Oxygen/Air Sensor(s)
Temperature Sensor(s)
Humidity Sensor(s)
Light/Photo Sensor(s)
708E
356

Fig. 7B

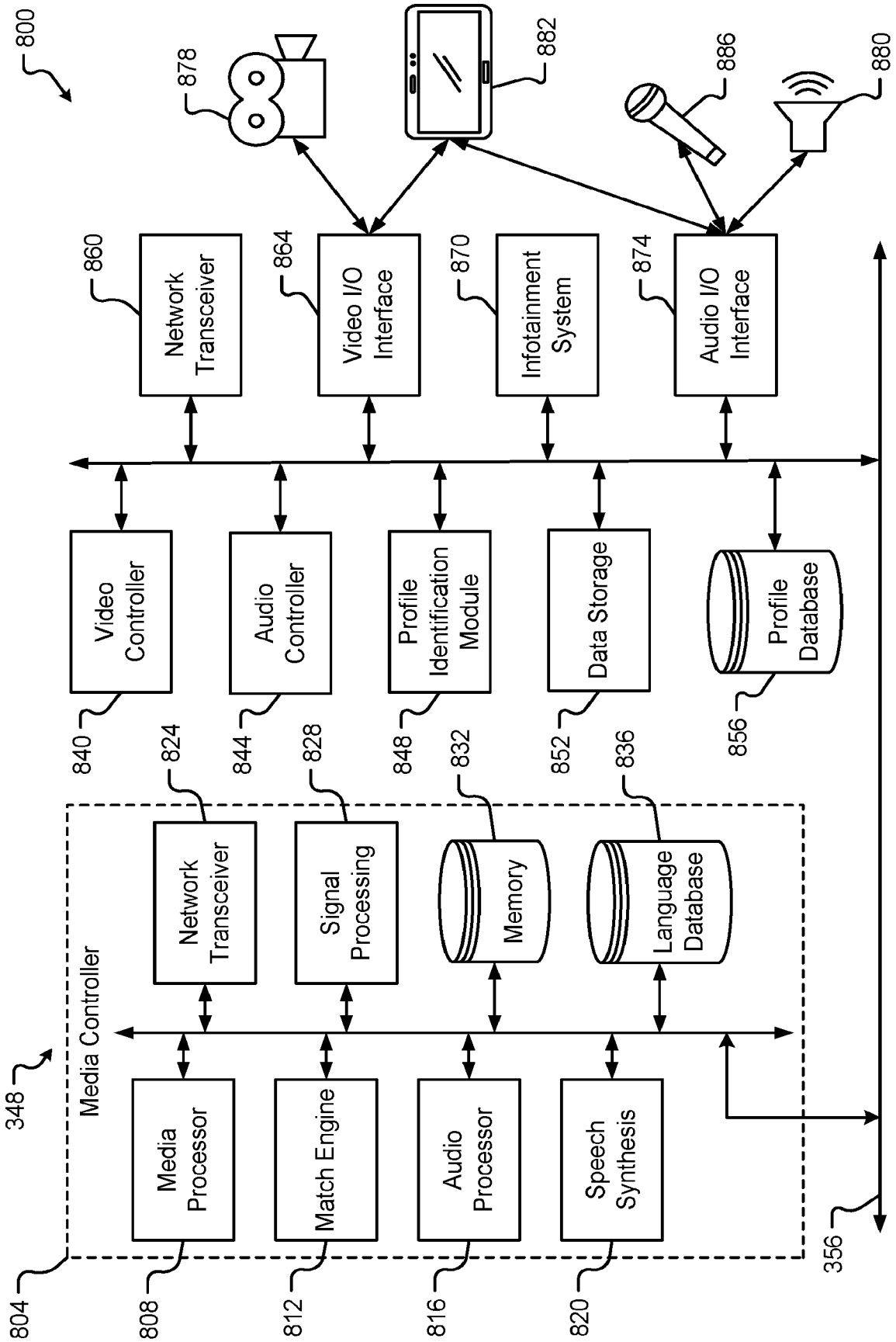

800
878
882
886
880
860
Network Transceiver
864
Video I/O Interface
870
Infotainment System
874
Audio I/O Interface
Video Controller
Audio Controller
Profile Identification Module
Data Storage
Profile Database
840
844
848
852
856
824
828
832
836
348
Media Controller
Network Transceiver
Signal Processing
Memory
Language Database
Media Processor
Match Engine
Audio Processor
Speech Synthesis
804
808
812
816
820
356

Fig. 8A

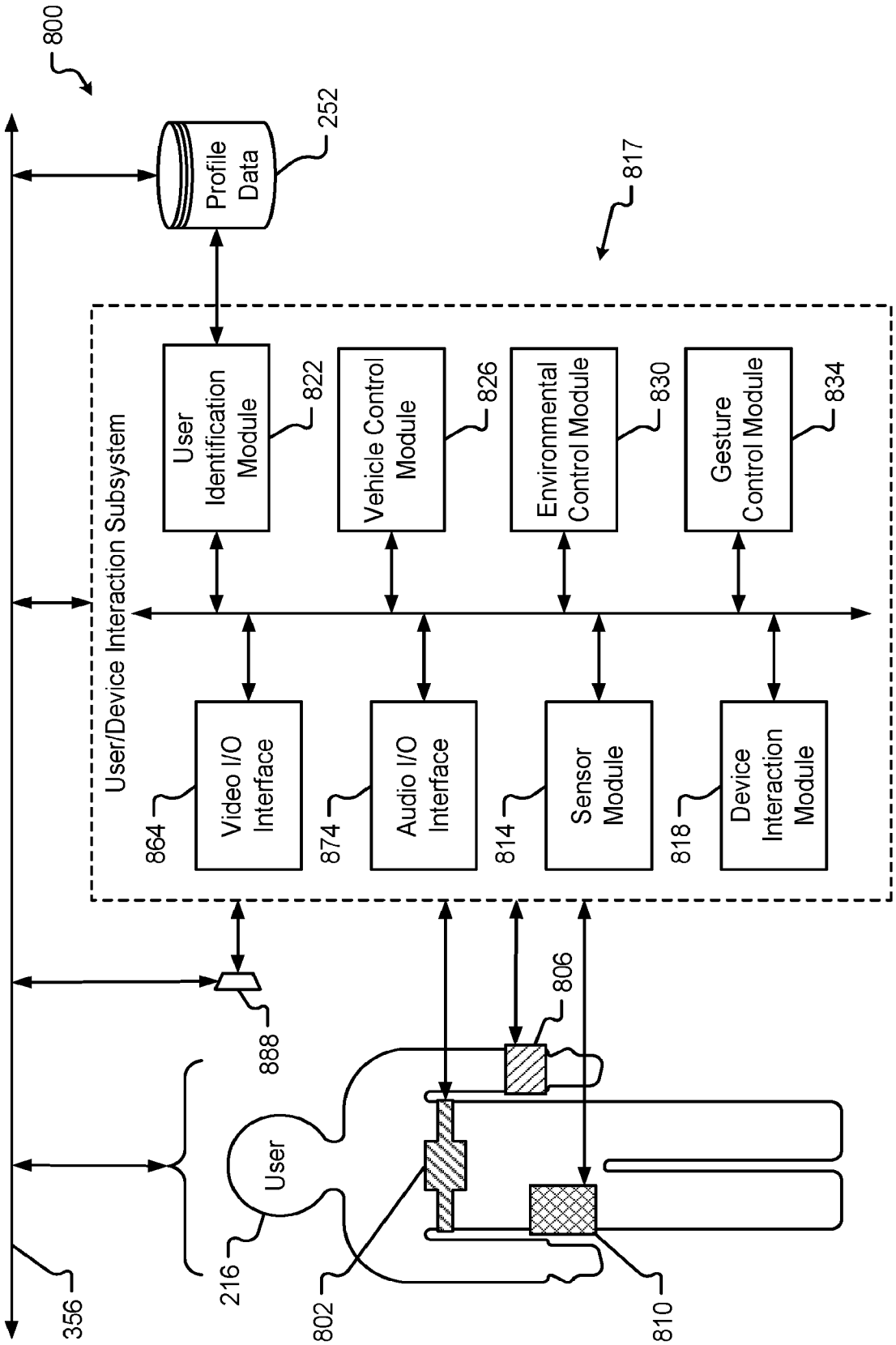

800
Profile Data
252
817
User/Device Interaction Subsystem
User Identification Module
822
Vehicle Control Module
826
Environmental Control Module
830
Gesture Control Module
834
Video I/O Interface
864
Audio I/O Interface
874
Sensor Module
814
Device Interaction Module
818
888
806
User
216
802
810
356

Fig. 8B

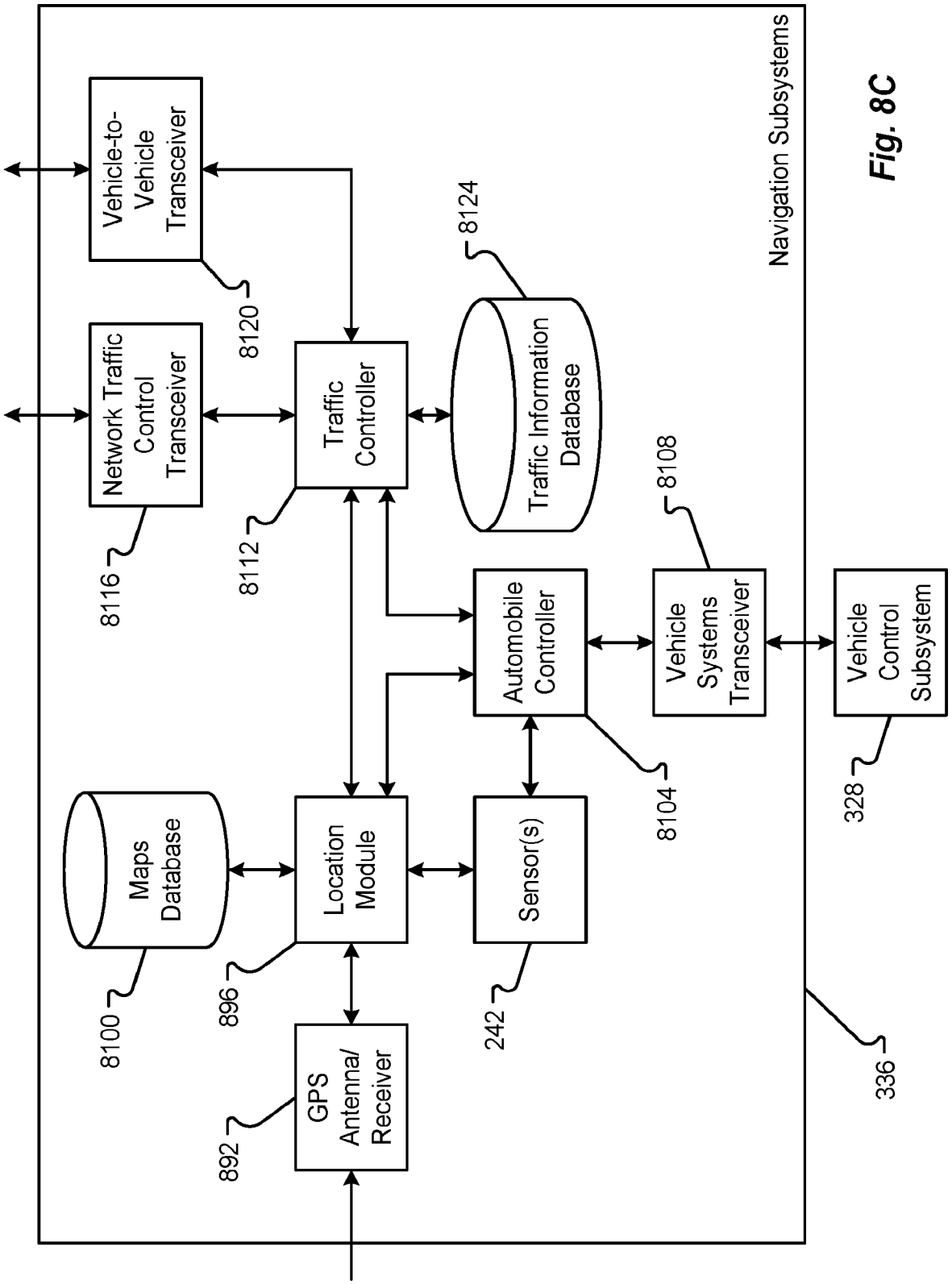

Navigation Subsystems
Vehicle-to-Vehicle Transceiver
8120
8124
Network Traffic Control Transceiver
Traffic Controller
Traffic Information Database
8116
8112
8108
Automobile Controller
Vehicle Systems Transceiver
Vehicle Control Subsystem
8104
328
Maps Database
Location Module
Sensor(s)
8100
896
242
GPS Antenna/ Receiver
892
336

Fig. 8C

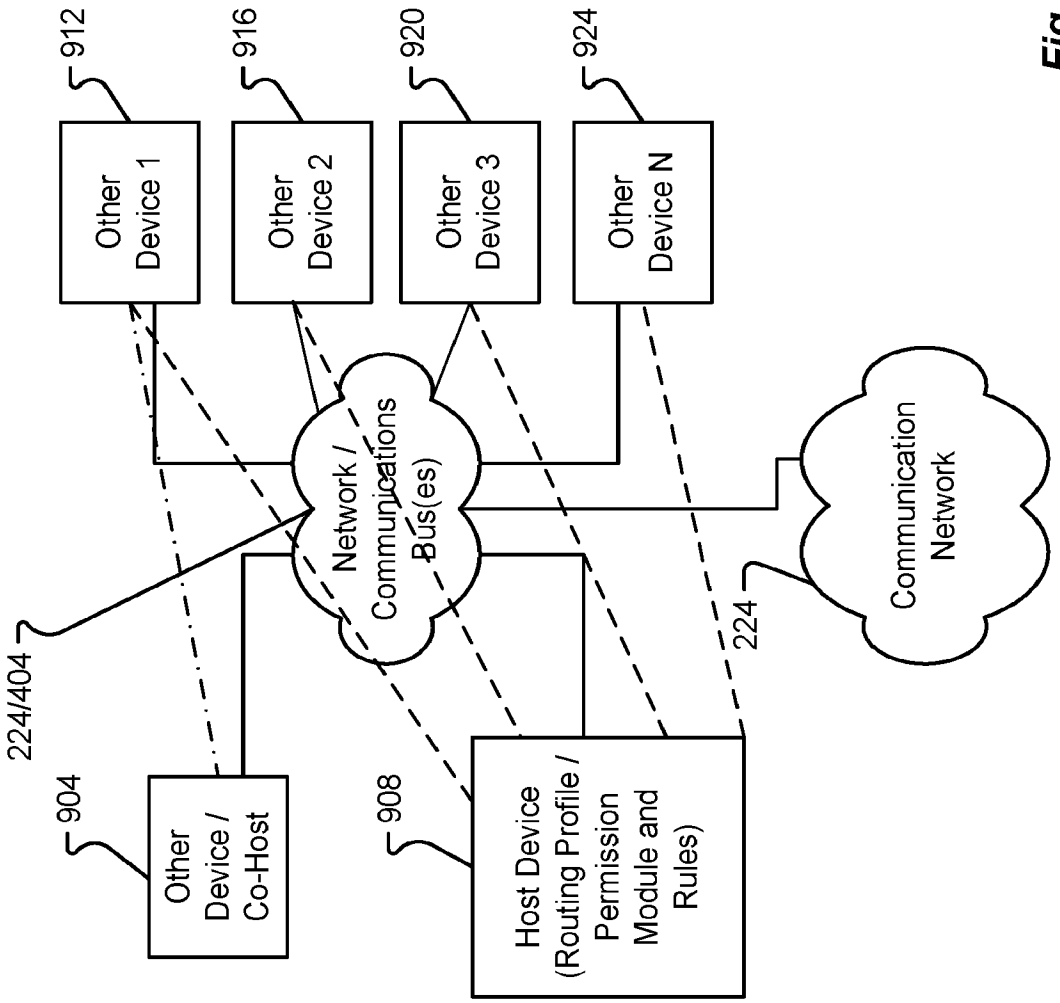

912
Other Device 1
916
Other Device 2
920
Other Device 3
924
Other Device N
Network / Communications Bus(es)
224
Communication Network
224/404
904
Other Device / Co-Host
908
Host Device (Routing Profile / Permission Module and Rules)

Fig. 9

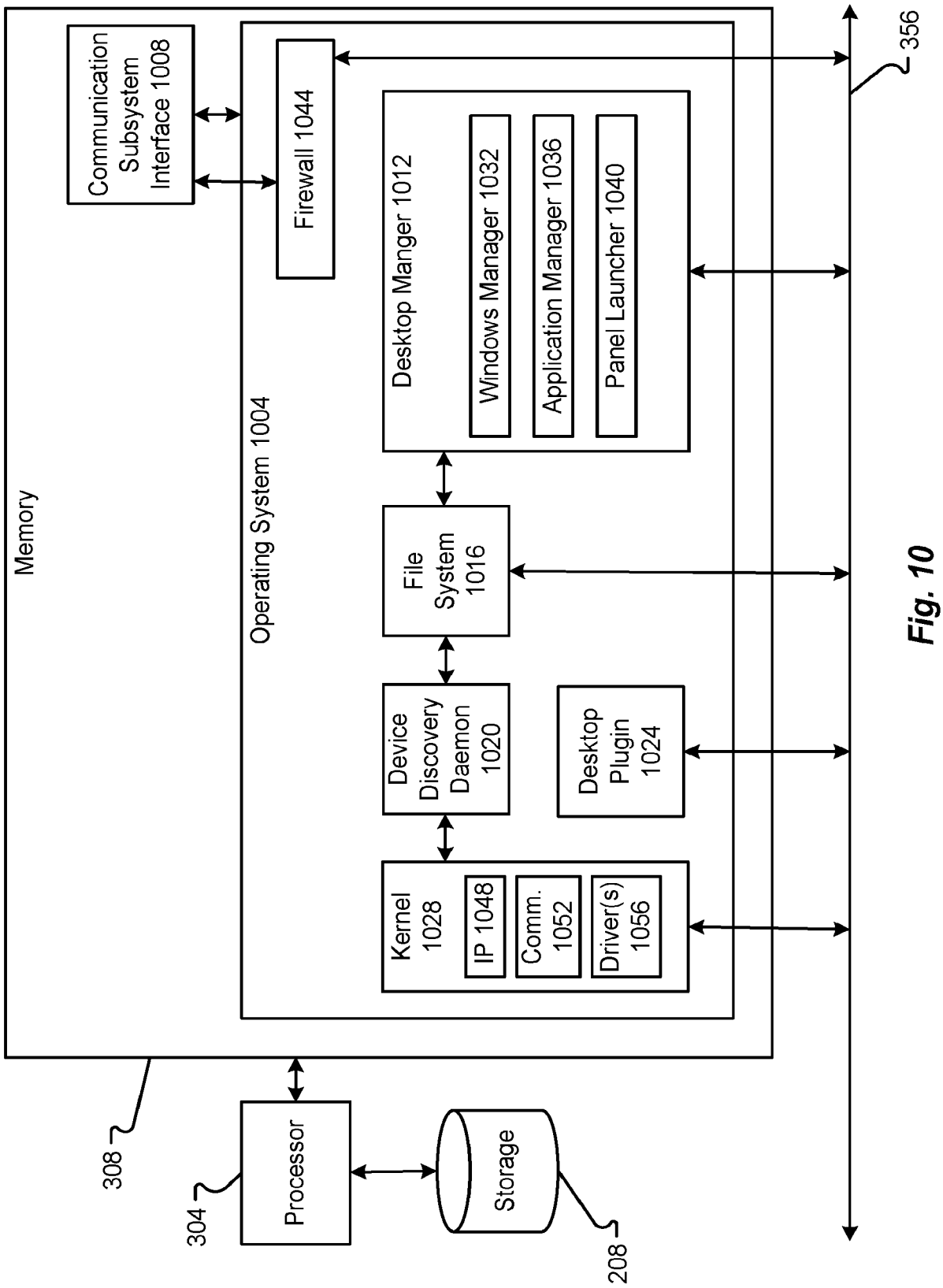

Memory
Communication Subsystem Interface 1008
Operating System 1004
Firewall 1044
Desktop Manger 1012
Windows Manager 1032
Application Manager 1036
Panel Launcher 1040
File System 1016
Device Discovery Daemon 1020
Desktop Plugin 1024
Kernel 1028
IP 1048
Comm. 1052
Driver(s) 1056
Processor
Storage
308
304
208
356

Fig. 10

Tap

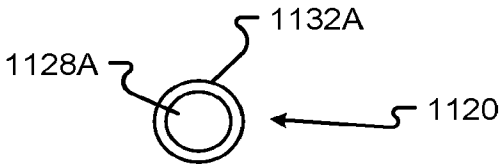


FIG. 11A

Long Press

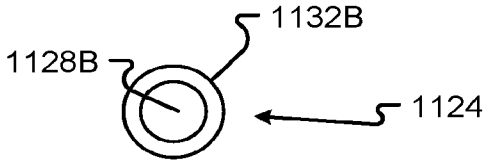


FIG. 11B

Drag

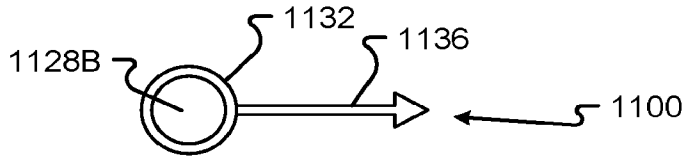


FIG. 11C

Flick

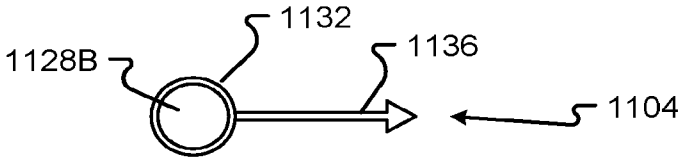


FIG. 11D

Pinch

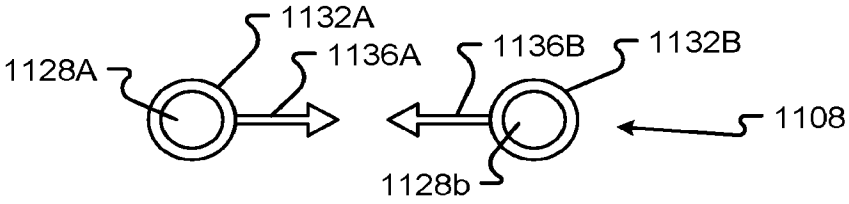


FIG. 11E

Spread

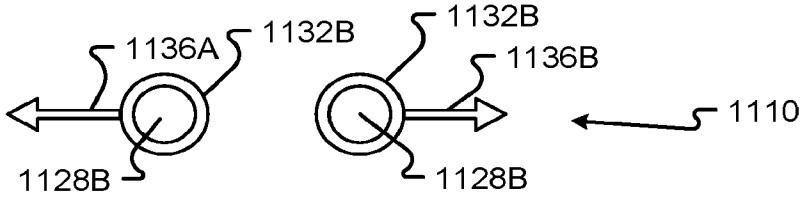


FIG. 11F

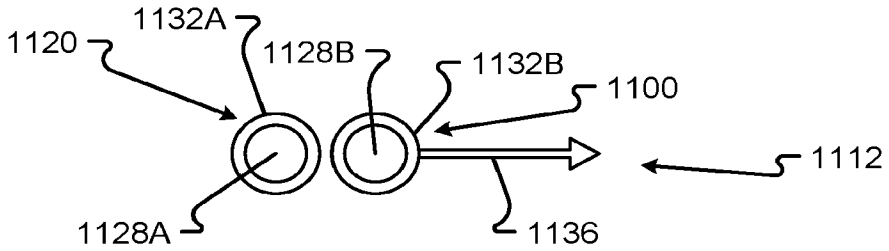


FIG. 11G

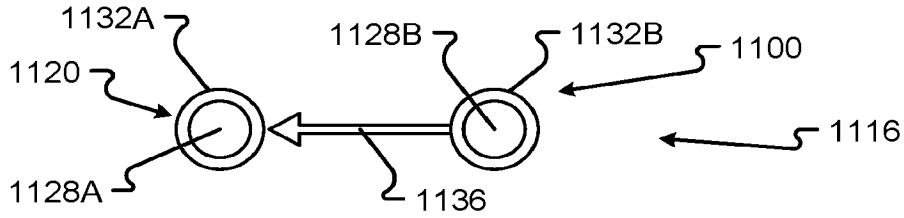


FIG. 11H

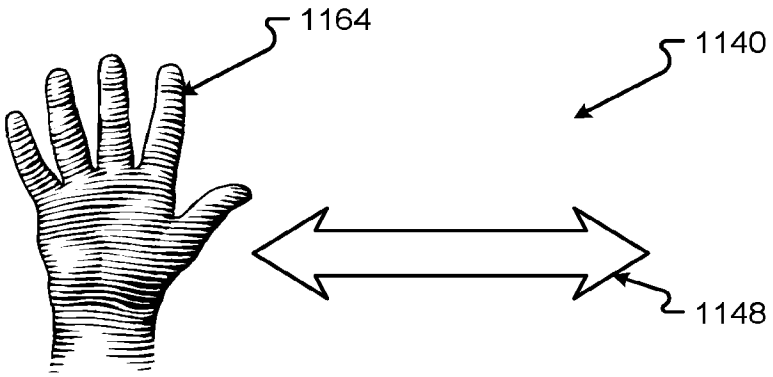


FIG. 11I

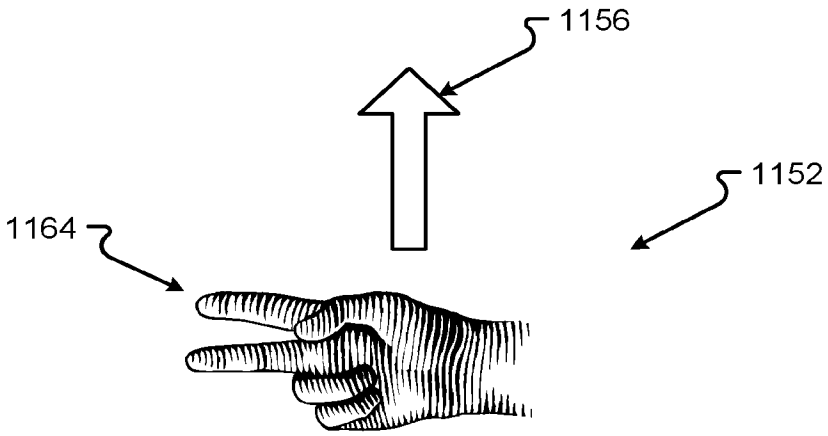


FIG. 11J

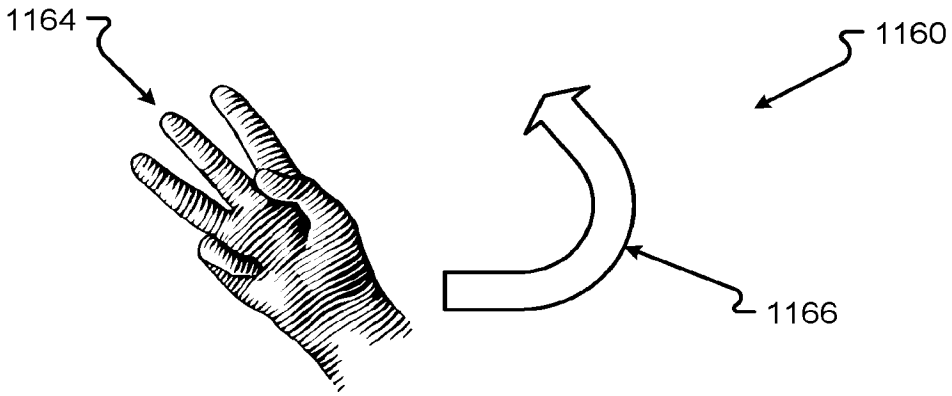


FIG. 11K

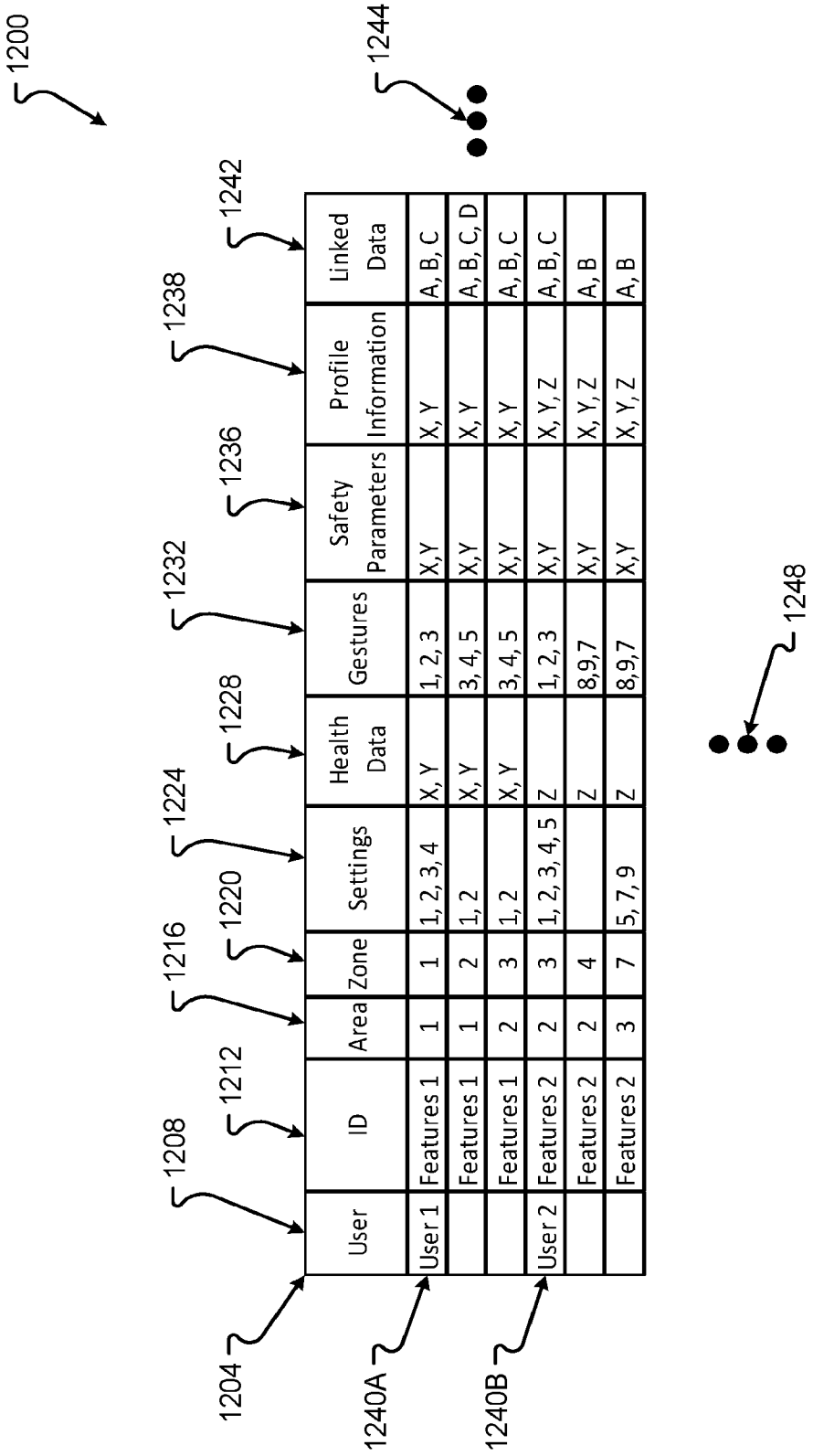

1200
1244
1208
1212
1216
1220
1224
1228
1232
1236
1238
1242
1204
1240A
1240B
1248
User
ID
Area
Zone
Settings
Health Data
Gestures
Safety Parameters
Profile Information
Linked Data
User 1
Features 1
1
1
1, 2, 3, 4
X, Y
1, 2, 3
X,Y
X, Y
A, B, C
Features 1
1
2
1, 2
X, Y
3, 4, 5
X,Y
X, Y
A, B, C, D
Features 1
2
3
1, 2
X, Y
3, 4, 5
X,Y
X, Y
A, B, C
User 2
Features 2
2
3
1, 2, 3, 4, 5
Z
1, 2, 3
X,Y
X, Y, Z
A, B, C
Features 2
2
4
Z
8,9,7
X,Y
X, Y, Z
A, B
Features 2
3
7
5, 7, 9
Z
8,9,7
X,Y
X, Y, Z
A, B

Fig. 12A

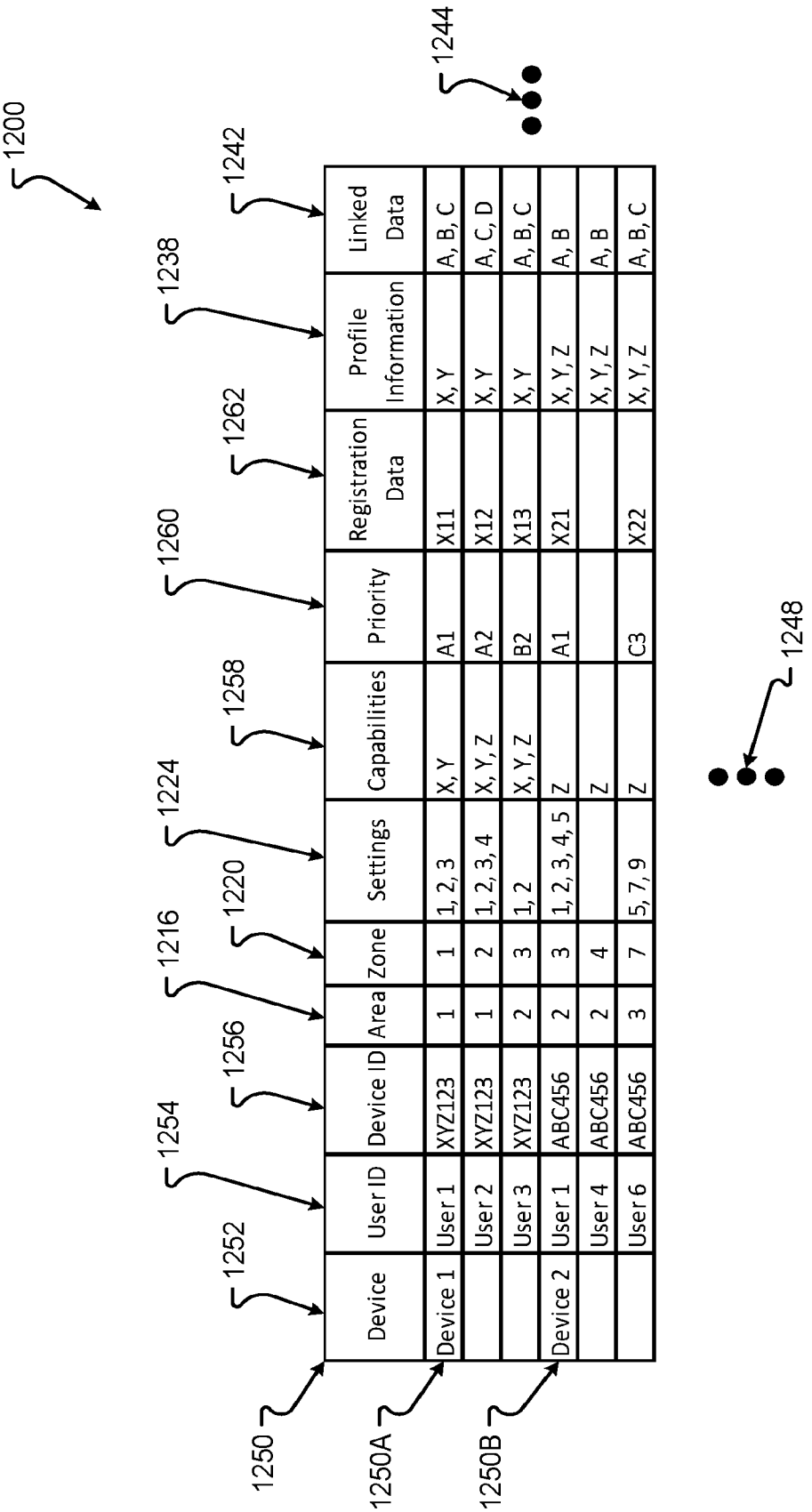
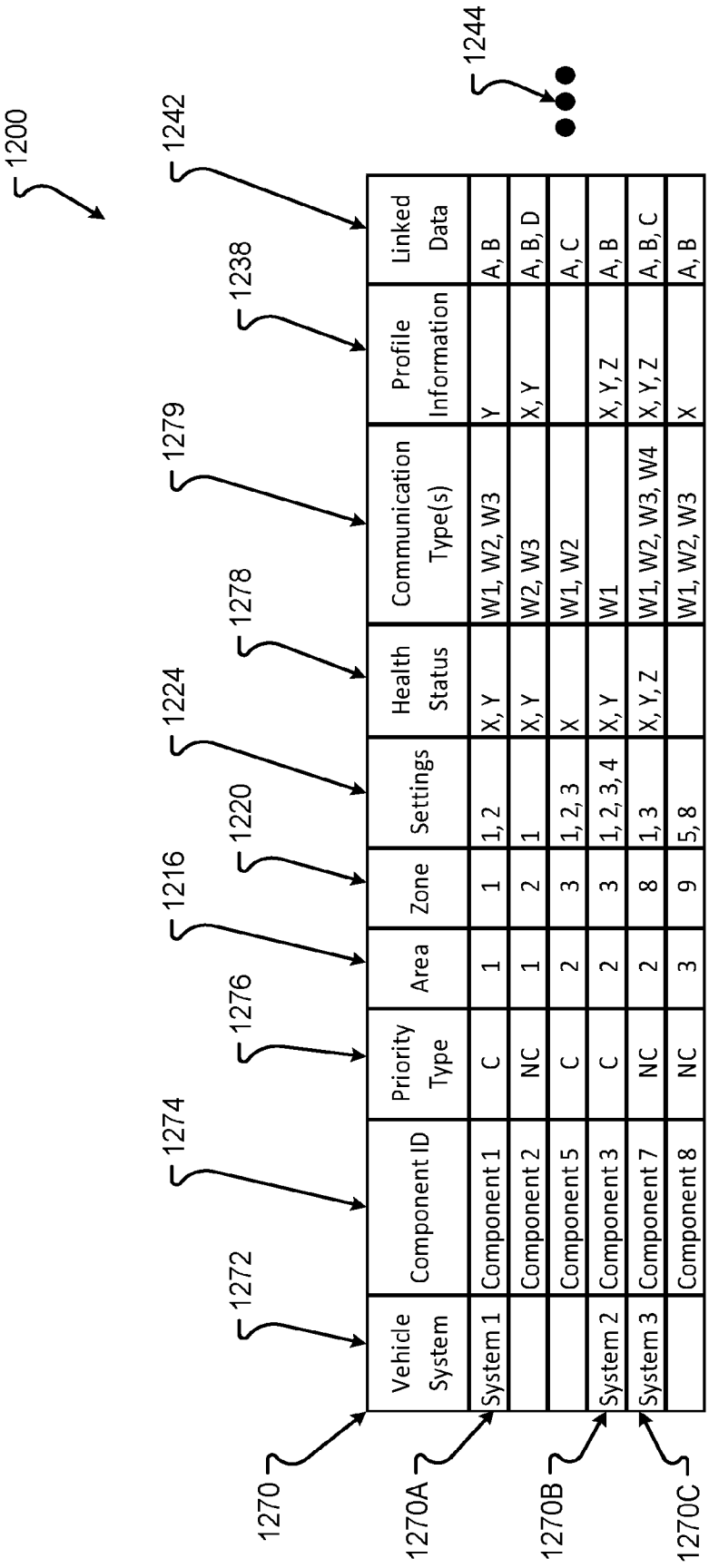

1200
1244
1242
1238
1262
1260
1258
1224
1220
1216
1256
1254
1252
1250
1250A
1250B
1248
Device
User ID
Device ID
Area
Zone
Settings
Capabilities
Priority
Registration Data
Profile Information
Linked Data
Device 1
User 1
XYZ123
1
1
1, 2, 3
X, Y
A1
X11
X, Y
A, B, C
User 2
XYZ123
1
2
1, 2, 3, 4
X, Y, Z
A2
X12
X, Y
A, C, D
User 3
XYZ123
2
3
1, 2
X, Y, Z
B2
X13
X, Y
A, B, C
Device 2
User 1
ABC456
2
3
1, 2, 3, 4, 5
Z
A1
X21
X, Y, Z
A, B
User 4
ABC456
2
4
Z
X, Y, Z
A, B
User 6
ABC456
3
7
5, 7, 9
Z
C3
X22
X, Y, Z
A, B, C

Fig. 12B



Vehicle System	Component ID	Priority Type	Area	Zone	Settings	Health Status	Communication Type(s)	Profile Information	Linked Data
System 1	Component 1	C	1	1	1, 2	X, Y	W1, W2, W3	Y	A, B
	Component 2	NC	1	2	1	X, Y	W2, W3	X, Y	A, B, D
	Component 5	C	2	3	1, 2, 3	X	W1, W2		A, C
System 2	Component 3	C	2	3	1, 2, 3, 4	X, Y	W1	X, Y, Z	A, B
System 3	Component 7	NC	2	8	1, 3	X, Y, Z	W1, W2, W3, W4	X, Y, Z	A, B, C
	Component 8	NC	3	9	5, 8		W1, W2, W3	X	A, B

Fig. 12C

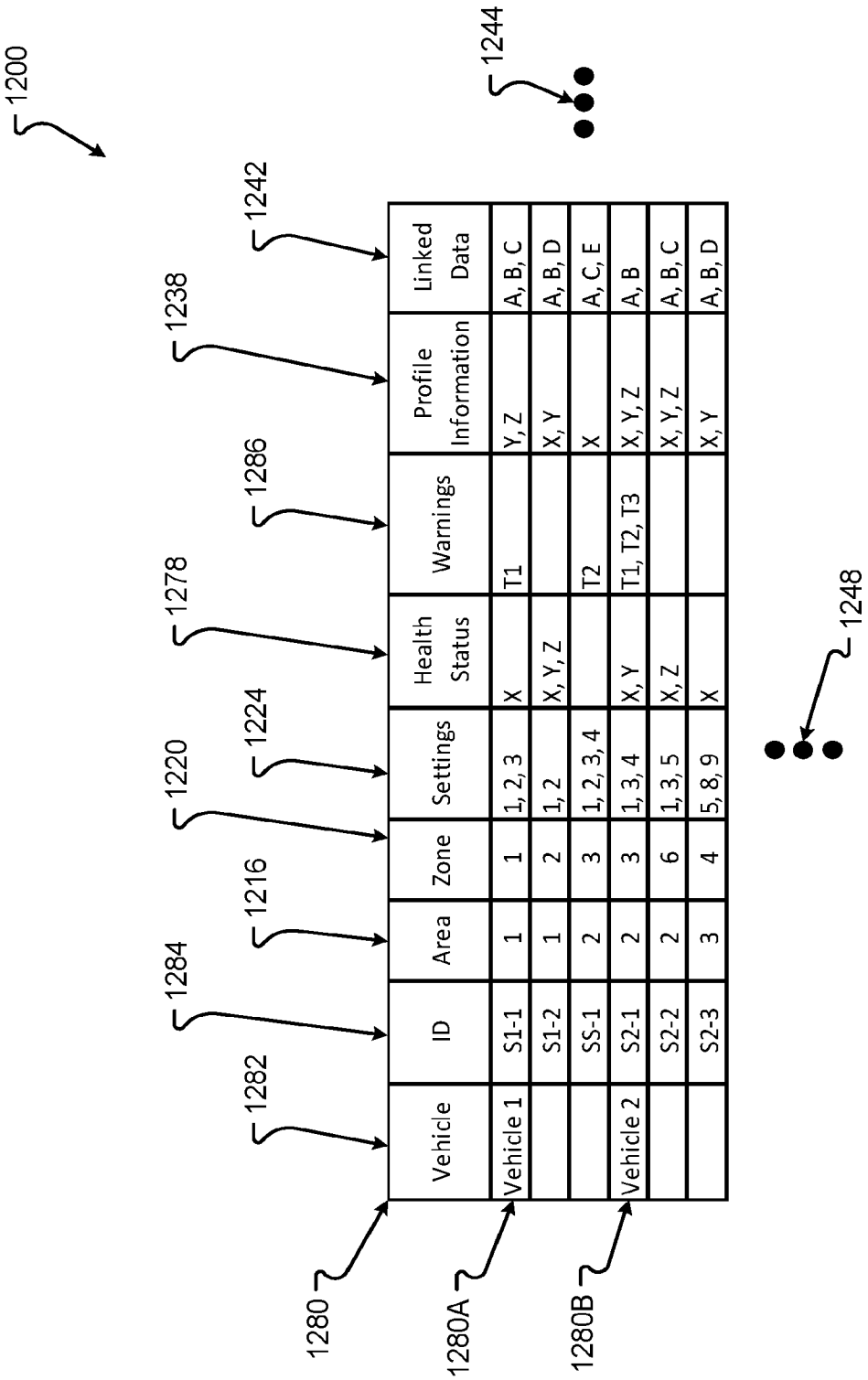

1200
1244
1242
1238
1286
1278
1220
1224
1216
1284
1282
1280
1280A
1280B
1248
Vehicle
ID
Area
Zone
Settings
Health Status
Warnings
Profile Information
Linked Data
Vehicle 1
S1-1
1
1
1, 2, 3
X
T1
Y, Z
A, B, C
S1-2
1
2
1, 2
X, Y, Z
X, Y
A, B, D
SS-1
2
3
1, 2, 3, 4
T2
X
A, C, E
Vehicle 2
S2-1
2
3
1, 3, 4
X, Y
T1, T2, T3
X, Y, Z
A, B
S2-2
2
6
1, 3, 5
X, Z
X, Y, Z
A, B, C
S2-3
3
4
5, 8, 9
X
X, Y
A, B, D

Fig. 12D

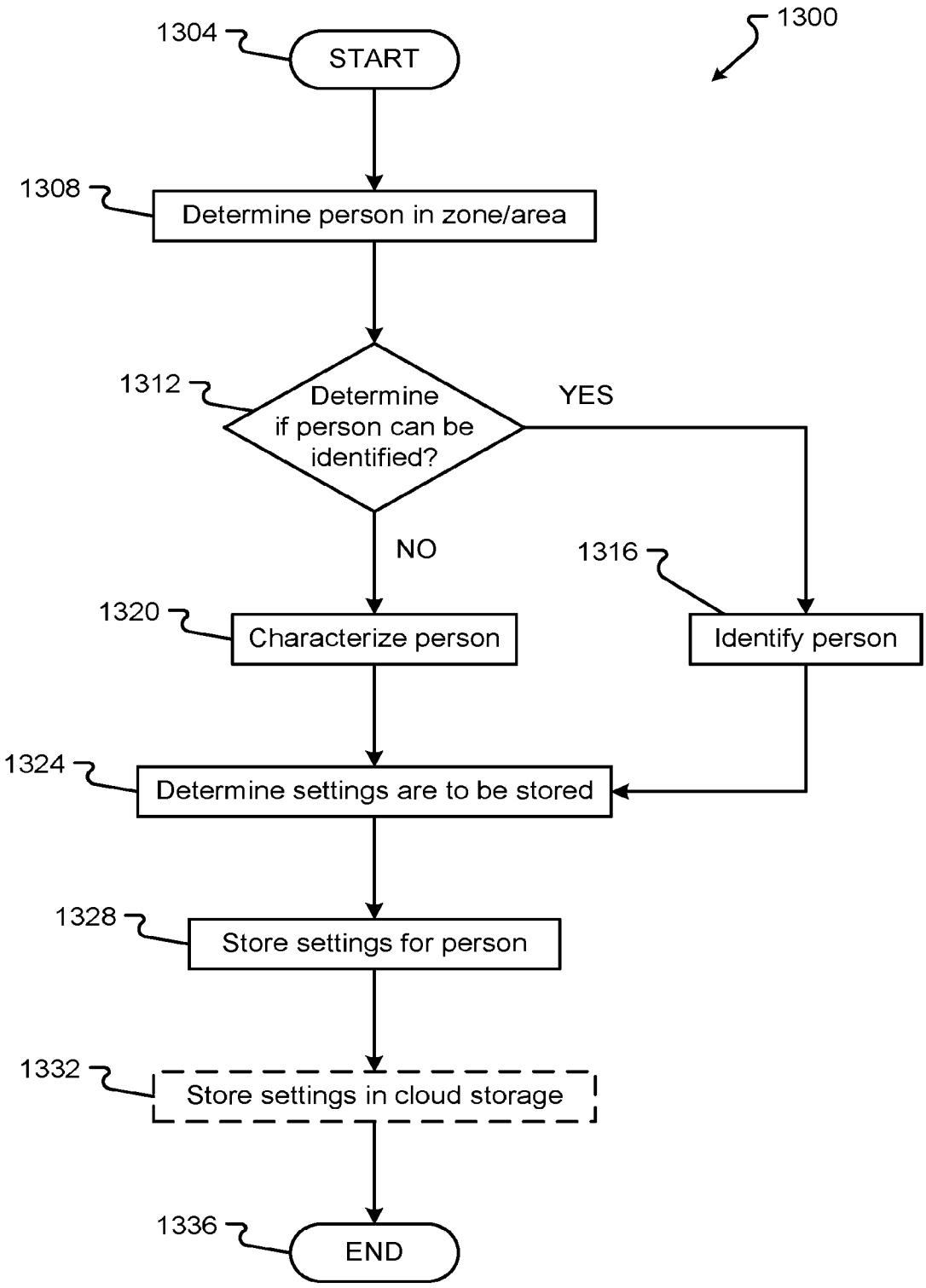

1300
1304
START
1308
Determine person in zone/area
1312
Determine if person can be identified?
YES
NO
1316
Identify person
1320
Characterize person
1324
Determine settings are to be stored
1328
Store settings for person
1332
Store settings in cloud storage
1336
END

Fig. 13

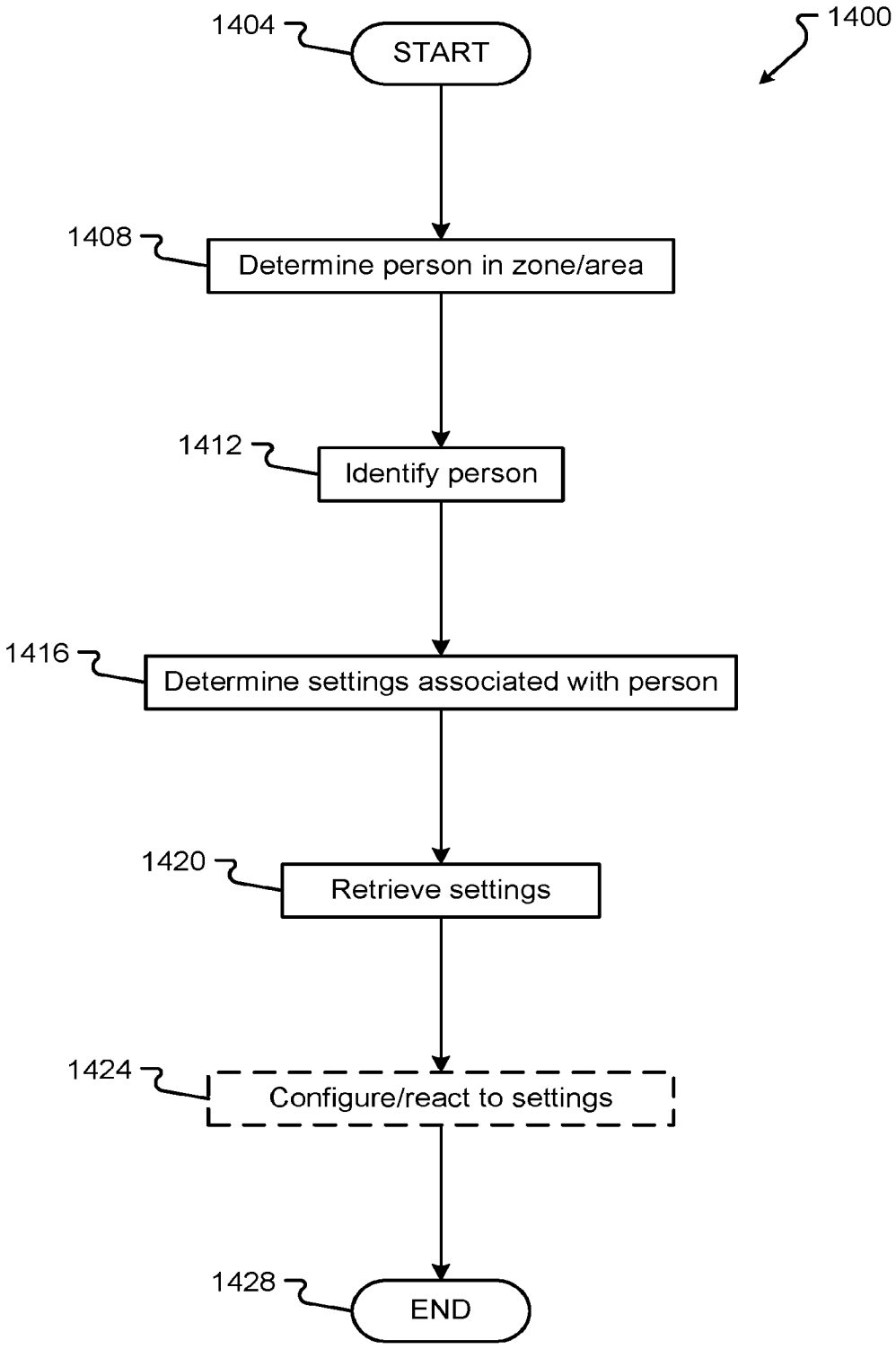

1400
1404
START
1408
Determine person in zone/area
1412
Identify person
1416
Determine settings associated with person
1420
Retrieve settings
1424
Configure/react to settings
1428
END

Fig. 14

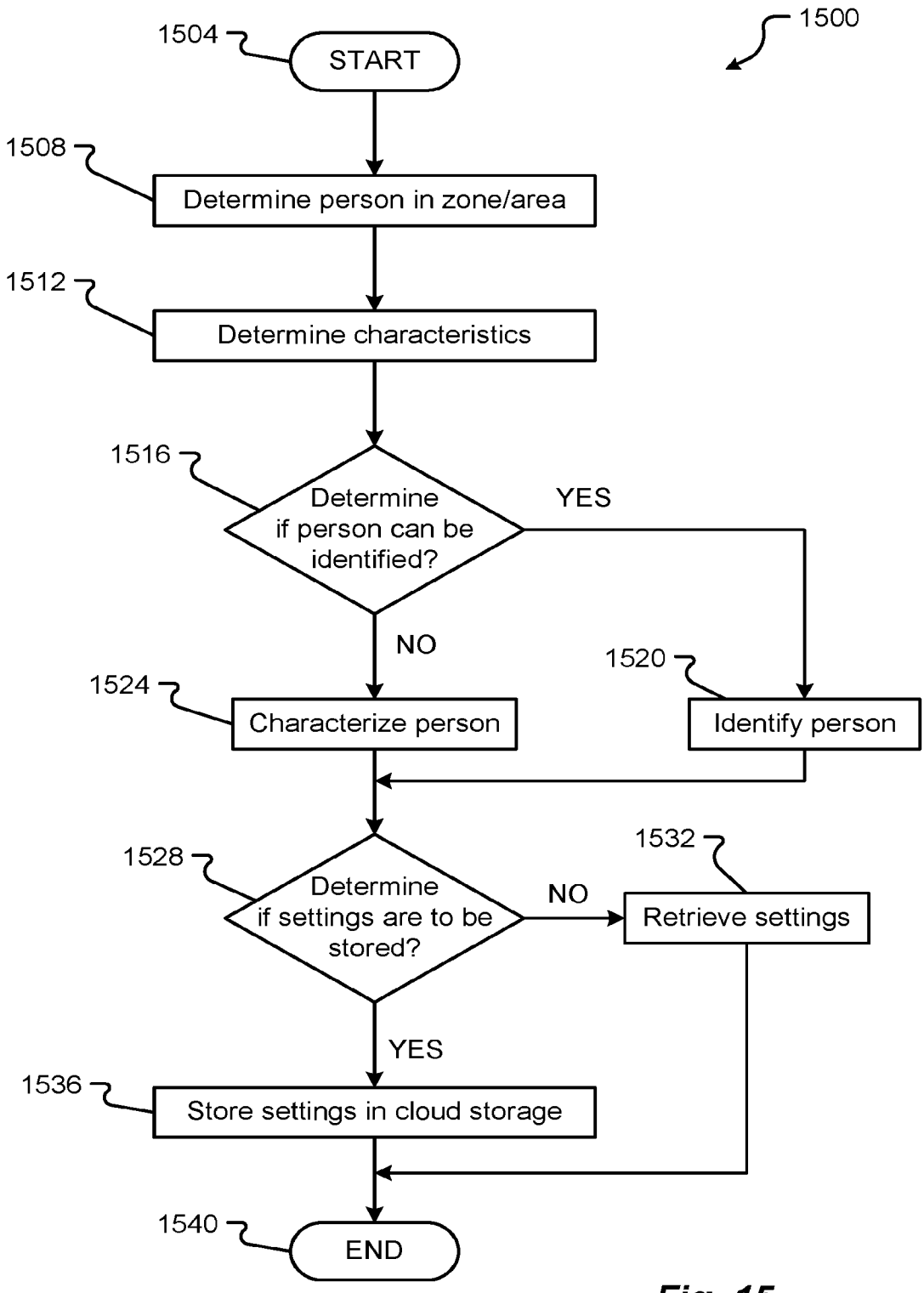

1500
1504
START
1508
Determine person in zone/area
1512
Determine characteristics
1516
Determine if person can be identified?
YES
NO
1520
Identify person
1524
Characterize person
1528
Determine if settings are to be stored?
NO
1532
Retrieve settings
YES
1536
Store settings in cloud storage
1540
END

Fig. 15

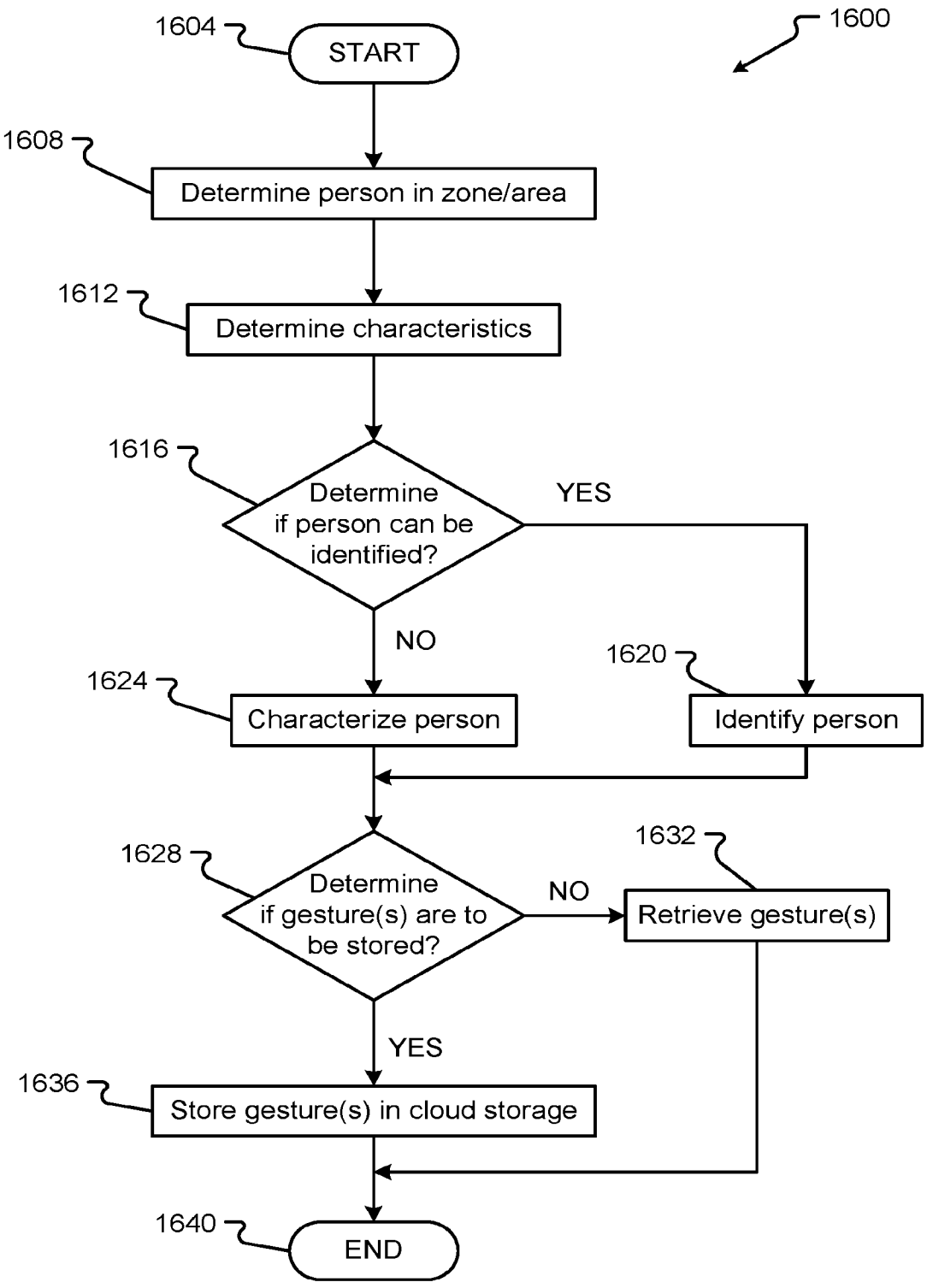

1600
1604
START
1608
Determine person in zone/area
1612
Determine characteristics
1616
Determine if person can be identified?
YES
NO
1620
Identify person
1624
Characterize person
1628
Determine if gesture(s) are to be stored?
NO
1632
Retrieve gesture(s)
YES
1636
Store gesture(s) in cloud storage
1640
END

Fig. 16

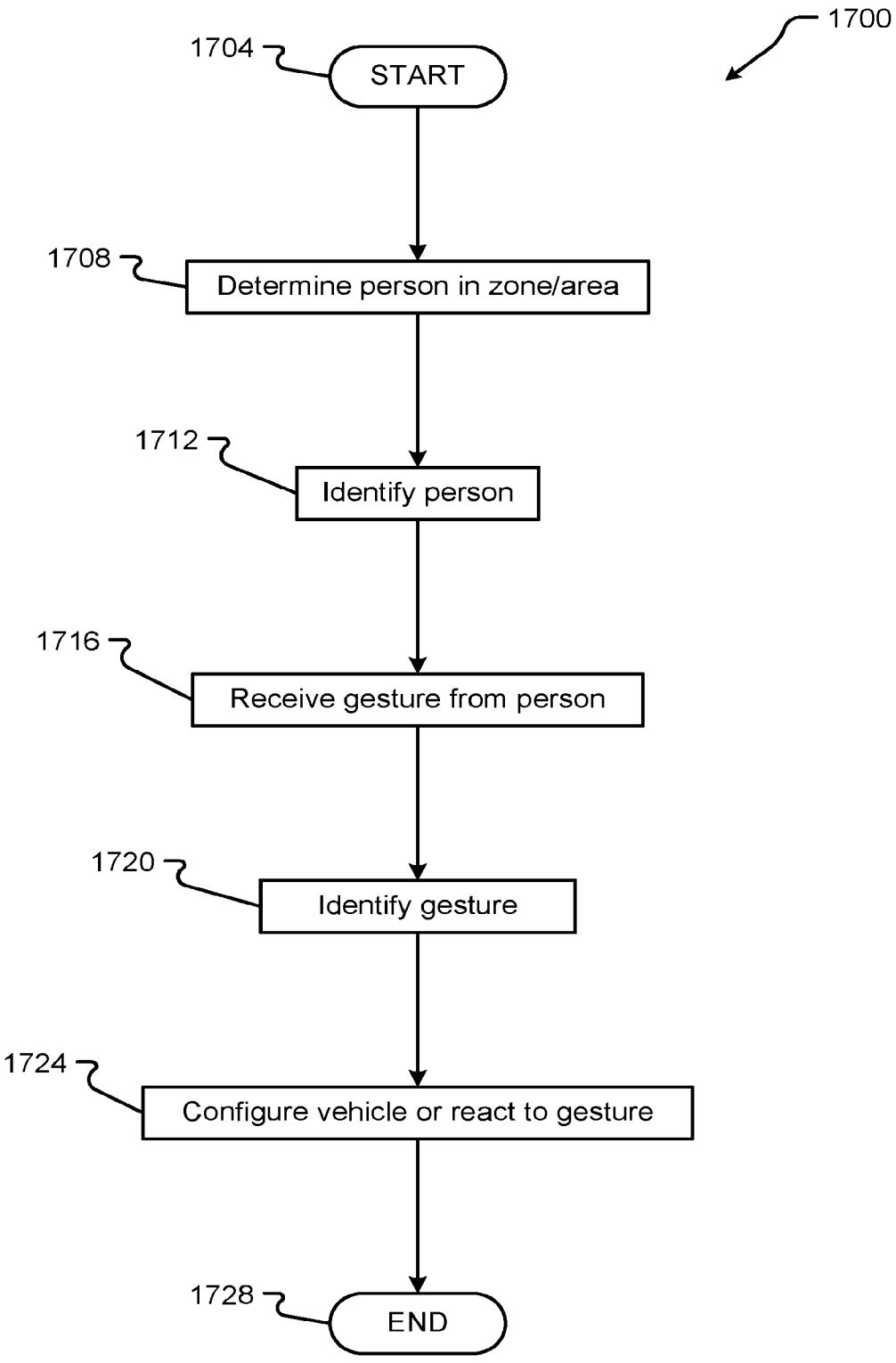

1700
1704
START
1708
Determine person in zone/area
1712
Identify person
1716
Receive gesture from person
1720
Identify gesture
1724
Configure vehicle or react to gesture
1728
END

Fig. 17

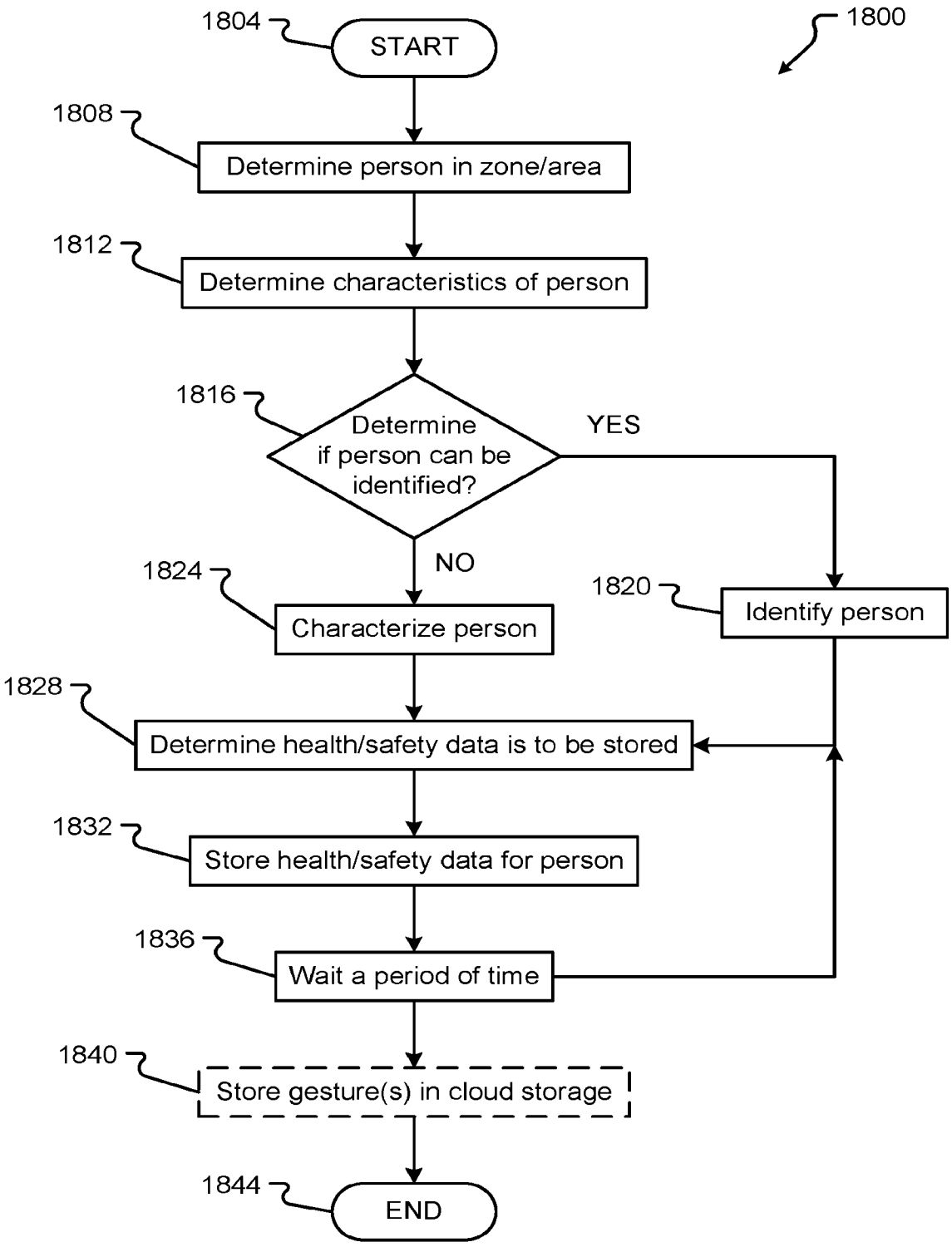

1804
START
1800
1808
Determine person in zone/area
1812
Determine characteristics of person
1816
Determine if person can be identified?
YES
NO
1824
Characterize person
1820
Identify person
1828
Determine health/safety data is to be stored
1832
Store health/safety data for person
1836
Wait a period of time
1840
Store gesture(s) in cloud storage
1844
END

Fig. 18

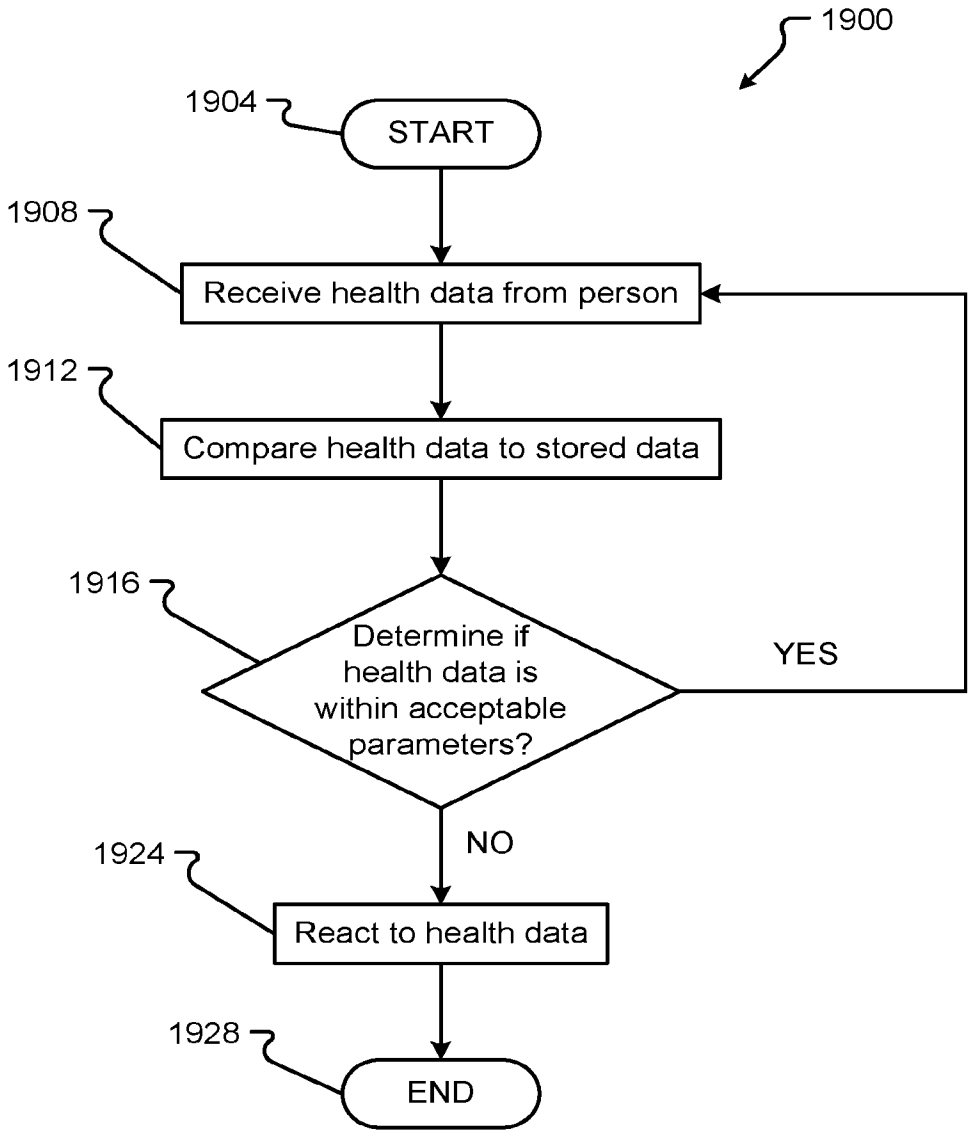

1900
1904
START
1908
Receive health data from person
1912
Compare health data to stored data
1916
Determine if health data is within acceptable parameters?
YES
NO
1924
React to health data
1928
END

Fig. 19

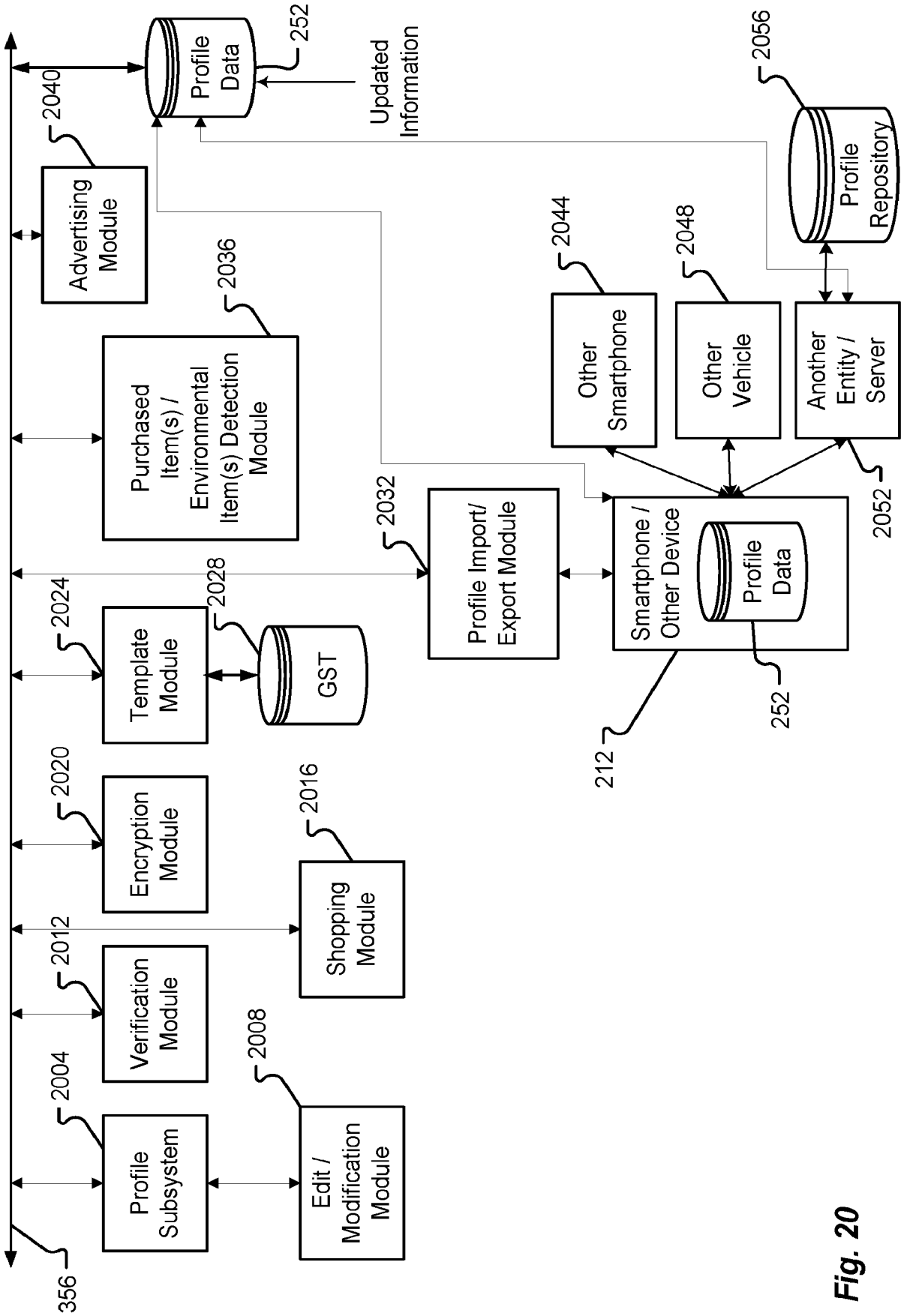

Profile Data
252
Updated Information
2056
Profile Repository
2040
Advertising Module
2044
Other Smartphone
2048
Other Vehicle
Another Entity / Server
2036
Purchased Item(s) / Environmental Item(s) Detection Module
2032
Profile Import/ Export Module
Smartphone / Other Device
Profile Data
2052
2024
Template Module
2028
GST
2020
Encryption Module
2016
Shopping Module
2012
Verification Module
2004
Profile Subsystem
2008
Edit / Modification Module
212
252
356

Fig. 20

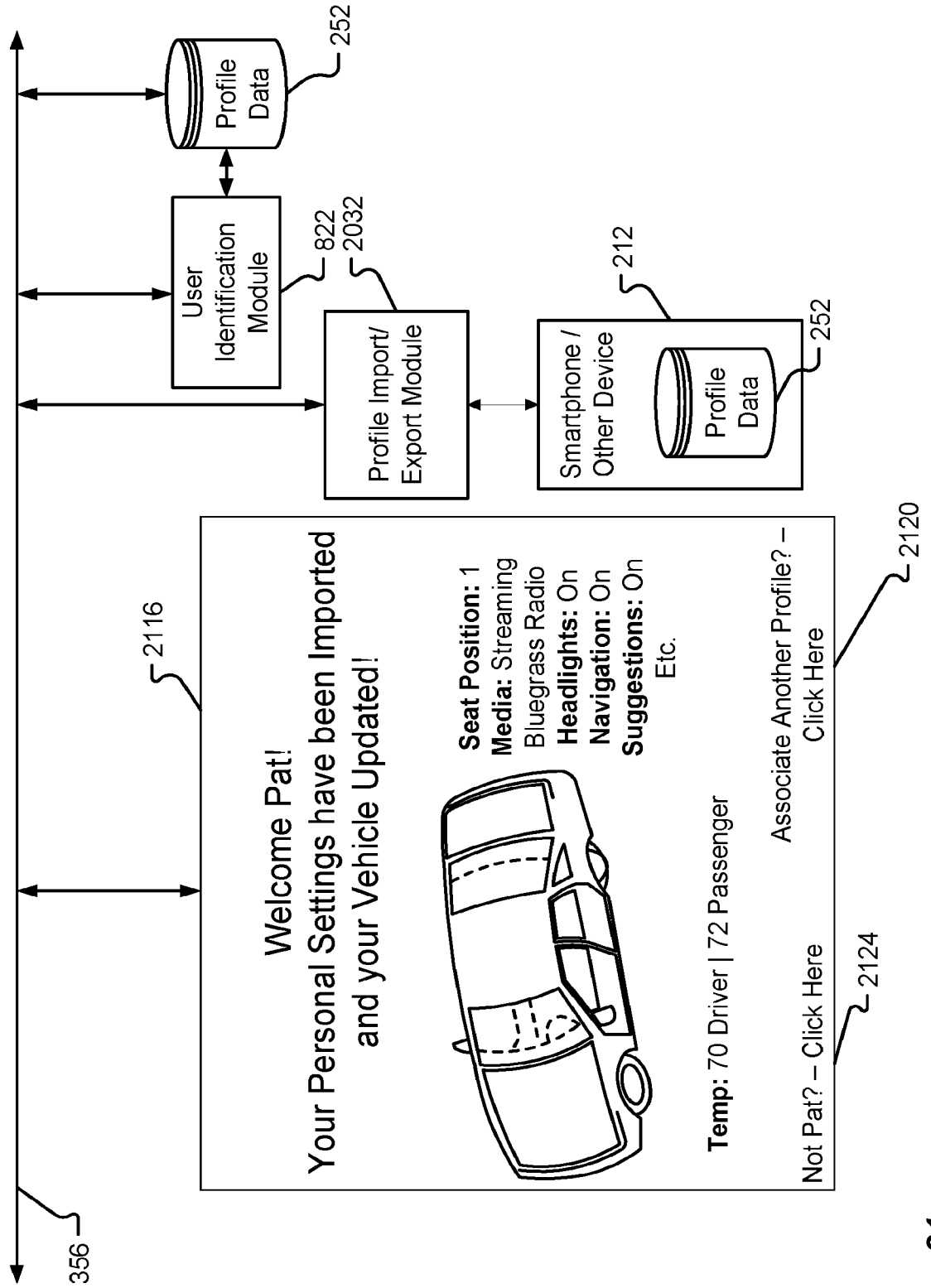

356
2116
Welcome Pat!
Your Personal Settings have been Imported and your Vehicle Updated!
Seat Position: 1
Media: Streaming Bluegrass Radio
Headlights: On
Navigation: On
Suggestions: On Etc.
Temp: 70 Driver | 72 Passenger
Not Pat? – Click Here
2124
Associate Another Profile? – Click Here
2120
Profile Import/ Export Module
2032
User Identification Module
822
Profile Data
252
Smartphone / Other Device
212
Profile Data
252

Fig. 21

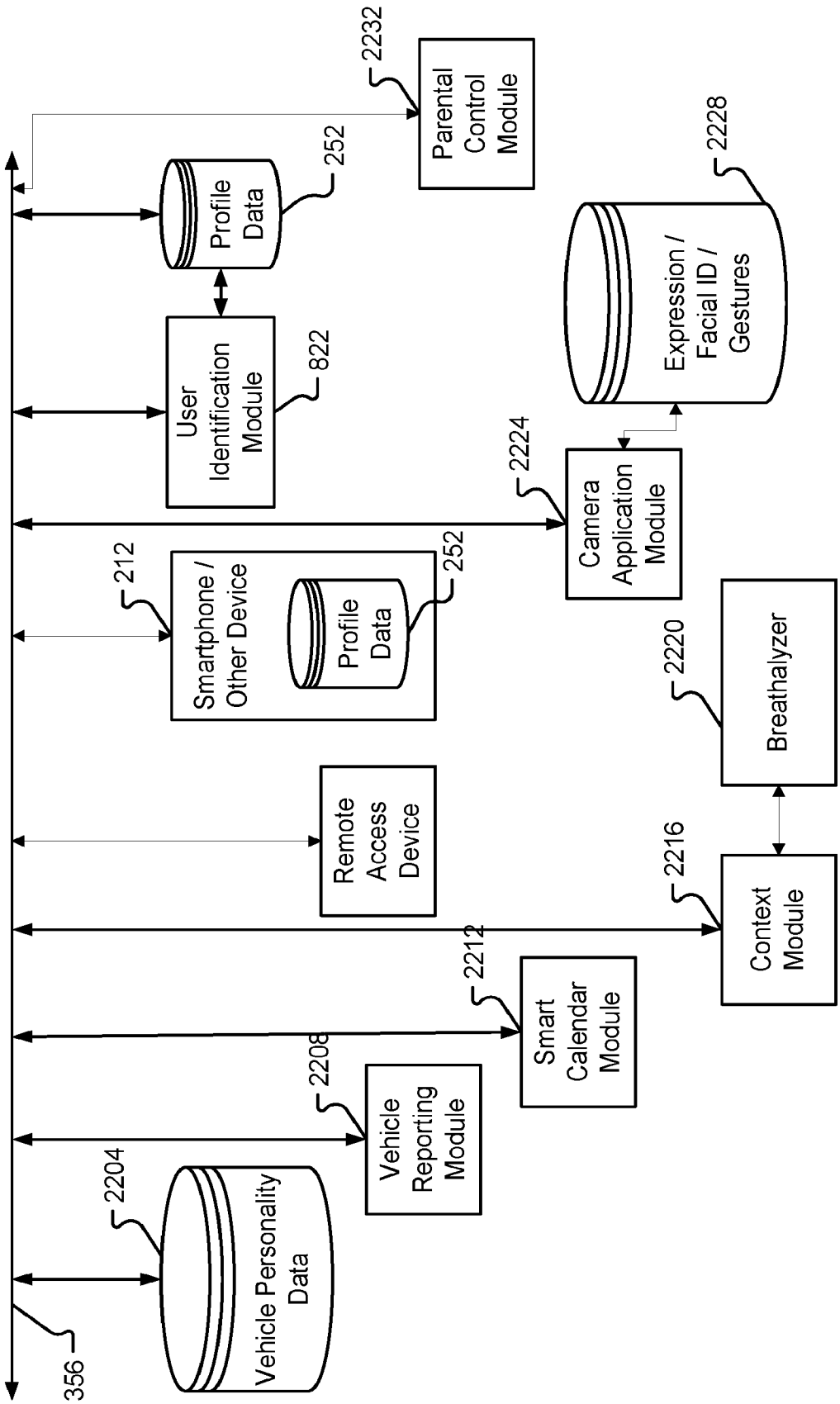

2232
Parental Control Module
252
Profile Data
2228
Expression / Facial ID / Gestures
822
User Identification Module
2224
Camera Application Module
212
Smartphone / Other Device
252
Profile Data
2220
Breathalyzer
Remote Access Device
2216
Context Module
2212
Smart Calendar Module
2208
Vehicle Reporting Module
2204
Vehicle Personality Data
356

Fig. 22

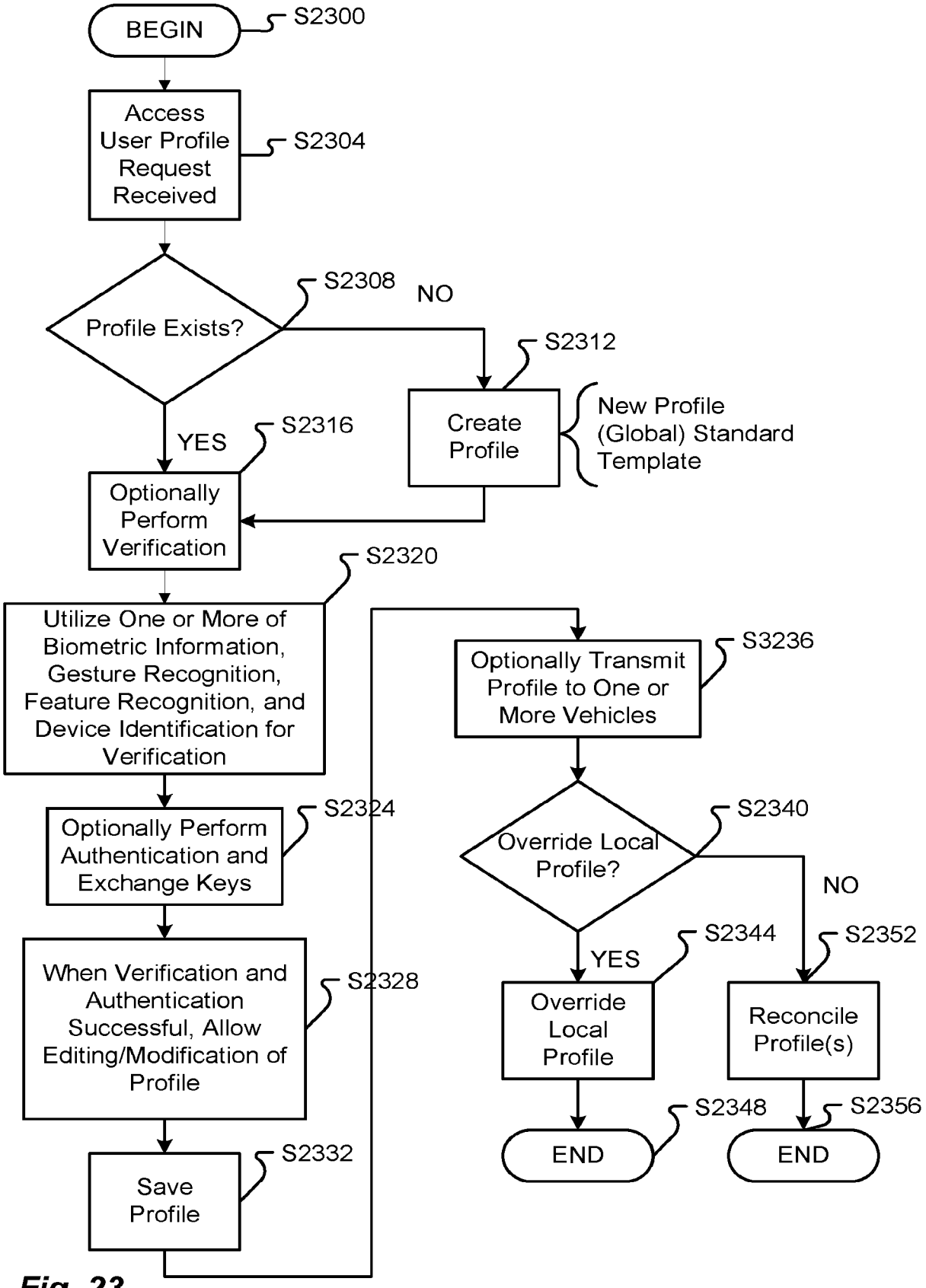

BEGIN
S2300
Access User Profile Request Received
S2304
Profile Exists?
S2308
NO
S2312
Create Profile
New Profile (Global) Standard Template
YES
S2316
Optionally Perform Verification
S2320
Utilize One or More of Biometric Information, Gesture Recognition, Feature Recognition, and Device Identification for Verification
Optionally Perform Authentication and Exchange Keys
S2324
When Verification and Authentication Successful, Allow Editing/Modification of Profile
S2328
Save Profile
S2332
Optionally Transmit Profile to One or More Vehicles
S3236
Override Local Profile?
S2340
NO
YES
S2344
S2352
Override Local Profile
Reconcile Profile(s)
S2348
S2356
END
END

Fig. 23

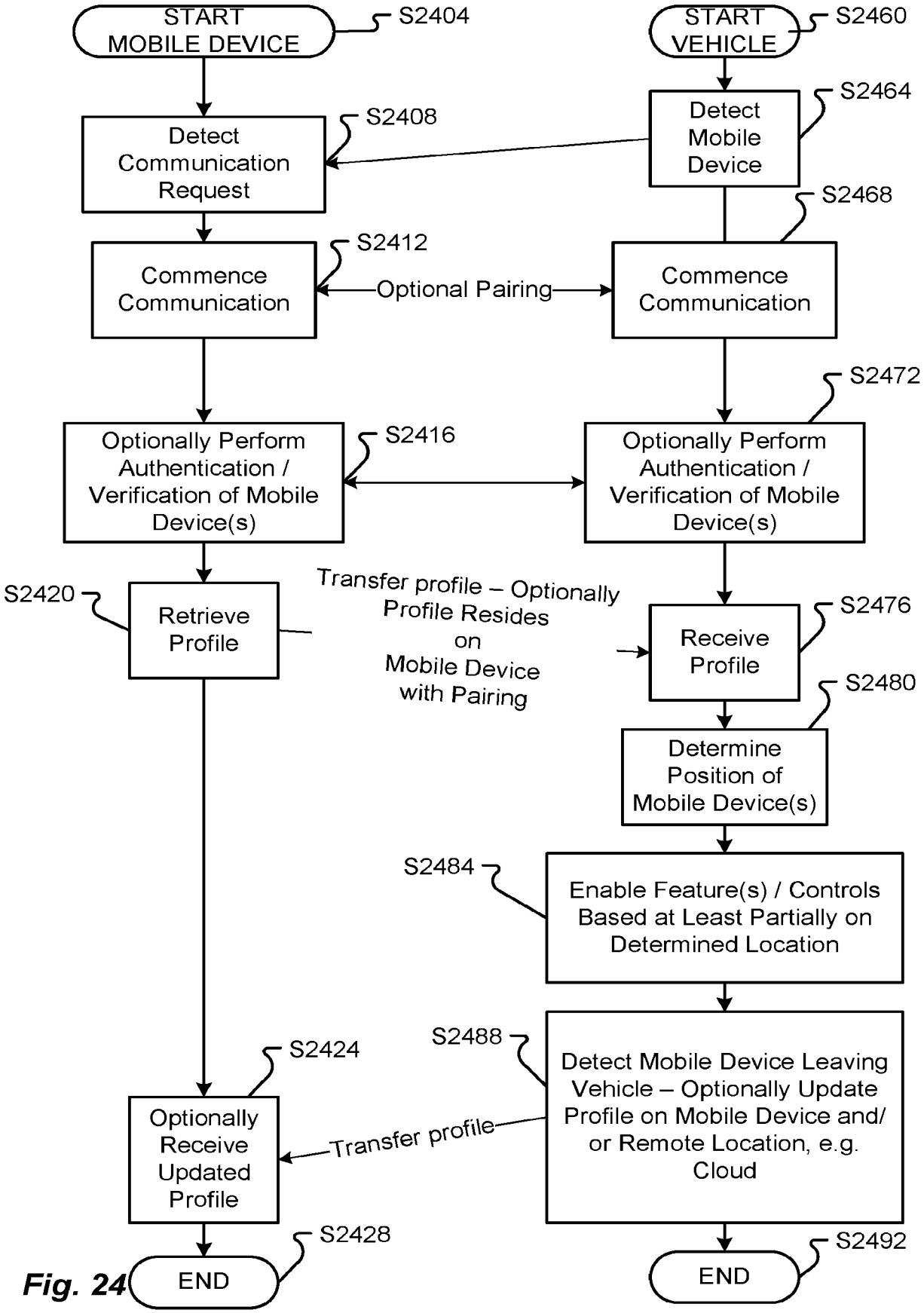

START MOBILE DEVICE
S2404
START VEHICLE
S2460
Detect Communication Request
S2408
Detect Mobile Device
S2464
S2468
Commence Communication
S2412
Optional Pairing
Commence Communication
Optionally Perform Authentication / Verification of Mobile Device(s)
S2416
Optionally Perform Authentication / Verification of Mobile Device(s)
S2472
S2420
Retrieve Profile
Transfer profile – Optionally Profile Resides on Mobile Device with Pairing
Receive Profile
S2476
S2480
Determine Position of Mobile Device(s)
S2484
Enable Feature(s) / Controls Based at Least Partially on Determined Location
S2488
Detect Mobile Device Leaving Vehicle – Optionally Update Profile on Mobile Device and/ or Remote Location, e.g. Cloud
S2424
Optionally Receive Updated Profile
Transfer profile
S2428
END
S2492
END

Fig. 24

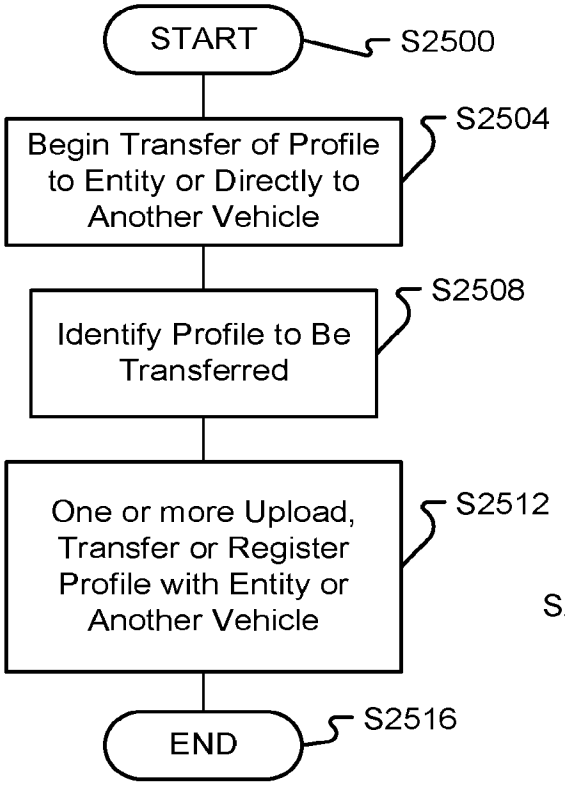

START
S2500
Begin Transfer of Profile to Entity or Directly to Another Vehicle
S2504
Identify Profile to Be Transferred
S2508
One or more Upload, Transfer or Register Profile with Entity or Another Vehicle
S2512
END
S2516

Fig. 25

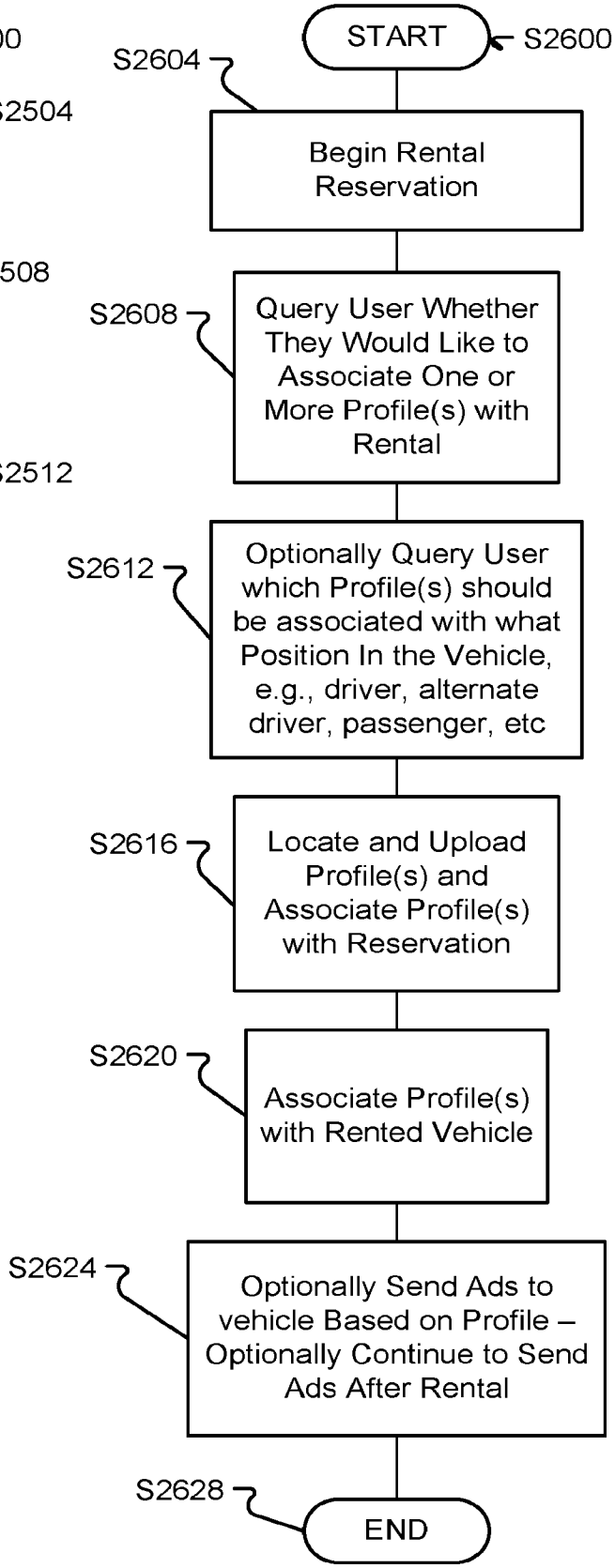

START
S2600
S2604
Begin Rental Reservation
S2608
Query User Whether They Would Like to Associate One or More Profile(s) with Rental
S2612
Optionally Query User which Profile(s) should be associated with what Position In the Vehicle, e.g., driver, alternate driver, passenger, etc
S2616
Locate and Upload Profile(s) and Associate Profile(s) with Reservation
S2620
Associate Profile(s) with Rented Vehicle
S2624
Optionally Send Ads to vehicle Based on Profile – Optionally Continue to Send Ads After Rental
S2628
END

Fig. 26

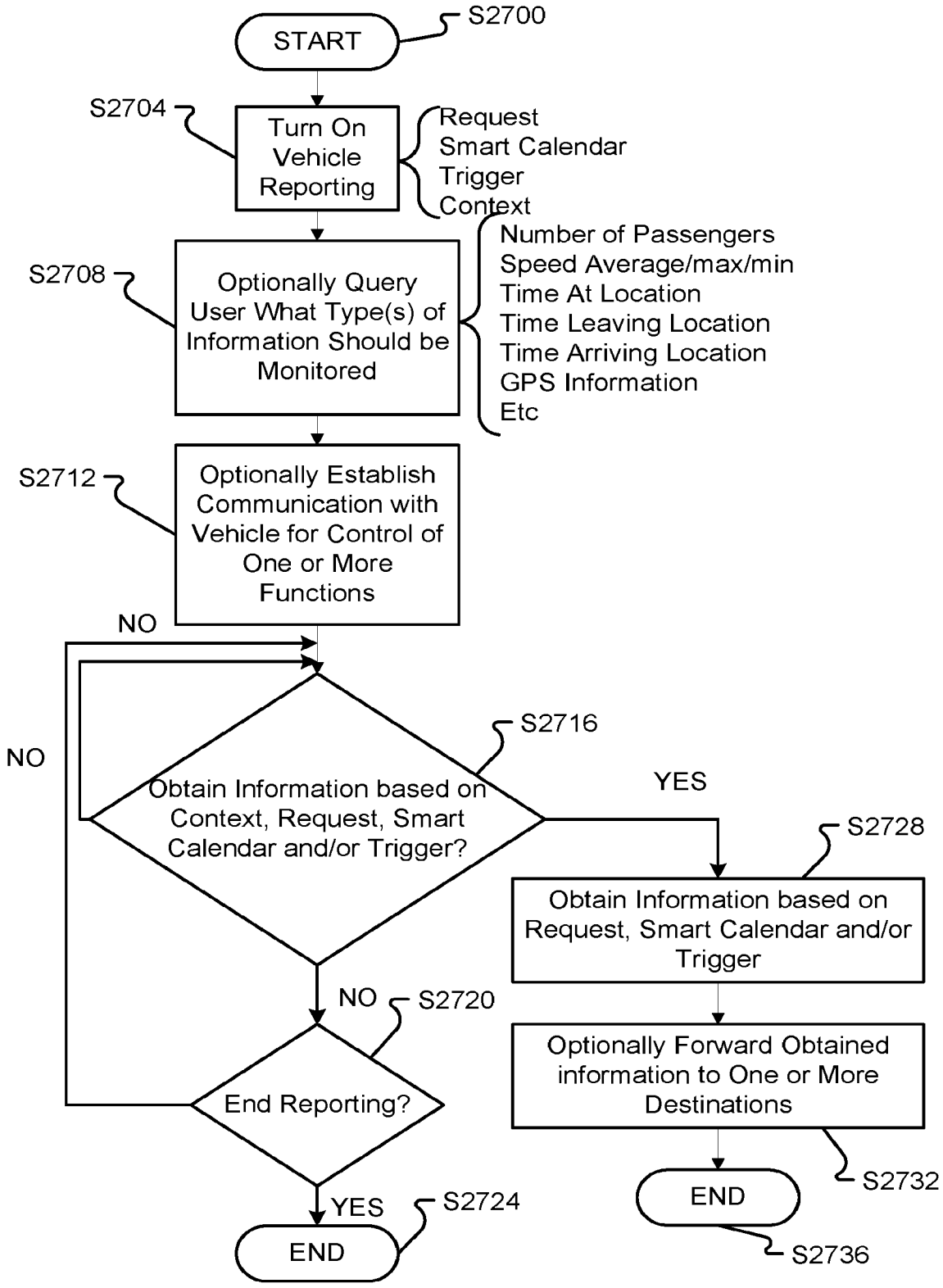

START
S2700
S2704
Turn On Vehicle Reporting
Request
Smart Calendar
Trigger
Context
S2708
Optionally Query User What Type(s) of Information Should be Monitored
Number of Passengers
Speed Average/max/min
Time At Location
Time Leaving Location
Time Arriving Location
GPS Information
Etc
S2712
Optionally Establish Communication with Vehicle for Control of One or More Functions
NO
S2716
Obtain Information based on Context, Request, Smart Calendar and/or Trigger?
NO
YES
S2728
Obtain Information based on Request, Smart Calendar and/or Trigger
NO
S2720
End Reporting?
Optionally Forward Obtained information to One or More Destinations
S2732
YES
S2724
END
END
S2736

Fig. 27

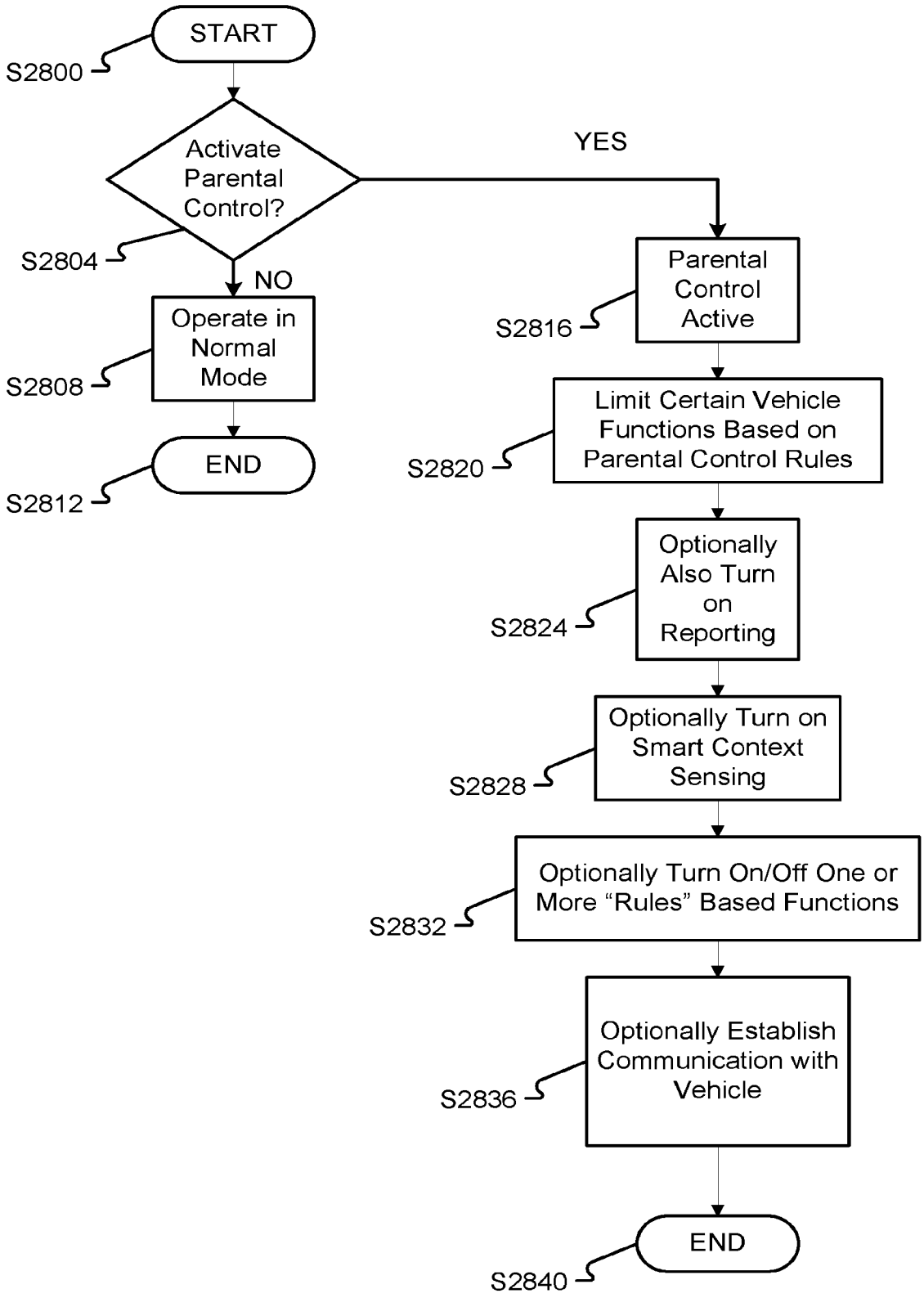

START
S2800
Activate Parental Control?
S2804
YES
NO
Operate in Normal Mode
S2808
END
S2812
Parental Control Active
S2816
Limit Certain Vehicle Functions Based on Parental Control Rules
S2820
Optionally Also Turn on Reporting
S2824
Optionally Turn on Smart Context Sensing
S2828
Optionally Turn On/Off One or More "Rules" Based Functions
S2832
Optionally Establish Communication with Vehicle
S2836
END
S2840

Fig. 28

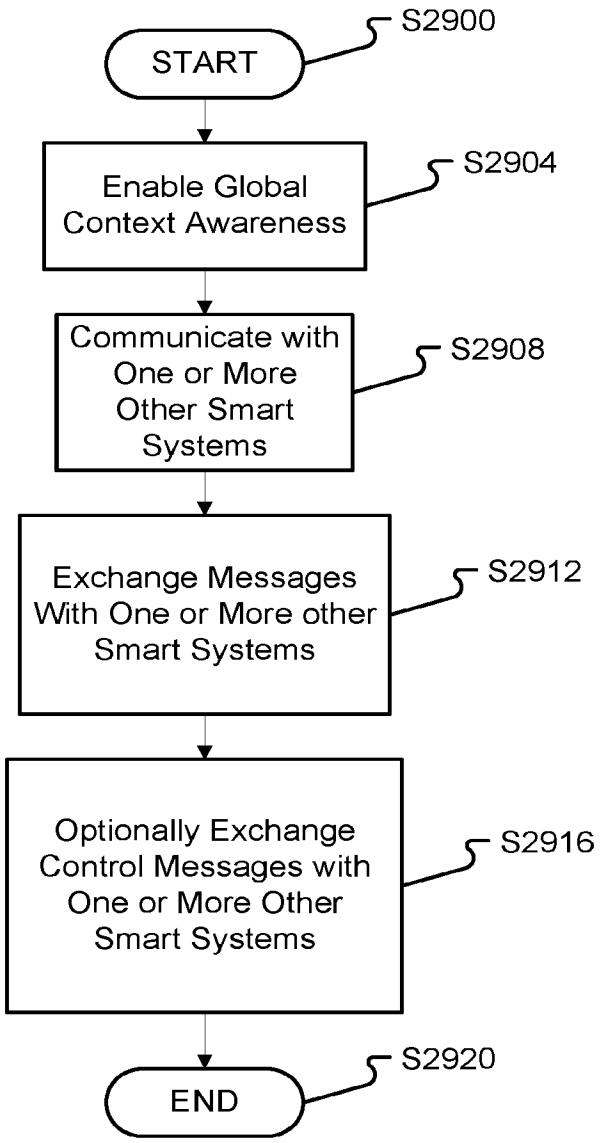

START
S2900
Enable Global Context Awareness
S2904
Communicate with One or More Other Smart Systems
S2908
Exchange Messages With One or More other Smart Systems
S2912
Optionally Exchange Control Messages with One or More Other Smart Systems
S2916
END
S2920

Fig. 29

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

Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/252,863 filed on April 15, 2014.

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

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

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

WARNING:

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

LEGAL NAME OF INVENTOR

Inventor: Christopher R. Ricci Date (Optional) :

Signature:

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

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

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

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

Application Number	
Filing Date	
First Named Inventor	Christopher P. Ricci
Title	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
Art Unit	
Examiner Name	
Attorney Docket Number	50365-0005002

SIGNATURE of Applicant or Patent Practitioner

Signature	/Sangki Park/	Date (Optional)	
Name	Sangki Park	Registration Number	77,261
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.

62821877.doc

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 the Transmittal.)

☒ 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, which may be an application filed after the date of this power of attorney, or identified above:

26191

OR

☐ I hereby appoint Practitioner(s) named in the attached list 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, which may be an application filed after the date of this power of attorney, or identified above.

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: **26191**

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):

Autoconnect Holdings 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)	5/21/2021
Name	Gregg S Hershenson		
Title	CEO		

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.

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PTO/AIA/14 (11-15)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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
	Christopher	P.	Ricci	

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

City	State/Province	Country of Residence
Saratoga	CA	US

Mailing Address of Inventor:

Address 1	20650 4th Street Unit 2
Address 2	

City	State/Province	Postal Code	Country
Saratoga	CA	95070	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).

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

Customer Number	26191		
Email Address	apsi@fr.com	Add Email	Remove Email

Application Information:

Title of the Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES		
Attorney Docket Number	50365-0005002	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	39	Suggested Figure for Publication (if any)	

PTO/AIA/14 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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	26191		

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	17233412	2021-04-16

PTO/AIA/14 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
17233412	Continuation of	16247128	2019-01-14
Prior Application Status	Patented		Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16247128	Continuation of	14252663	2014-04-14	9411925	2016-08-09

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252663	Claims benefit of provisional	61811961	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252663	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252663	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252663	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252663	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252663	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252663	Claims benefit of provisional	61926749	2014-01-13

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16247128	Continuation of	14252865	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16247128	Continuation of	14252868	2014-04-15

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16247128	Continuation of	15099413	2016-04-14
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15099413	Continuation of	14252871	2014-04-15

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
61811981	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
61865954	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
61870698	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
61891217	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
61904205	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
61924572	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Patented		Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16247128	Continuation of	14831696	2015-08-20	9545930	2017-01-17

Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14831696	Continuation of	14252876	2014-04-15

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16247128	Continuation of	15288244	2016-10-07
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15288244	Continuation of	14252863	2014-04-15

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15288244	Continuation of	14252865	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61811981	2013-04-15

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15288244	Continuation of	14252868	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61865954	2013-08-14

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15288244	Continuation of	15099413	2016-04-14
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15099413	Continuation of	14252871	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61865954	2013-08-14

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Patented		Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15288244	Continuation of	148231696	2015-08-20	9545930	2017-01-17

Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14831696	Continuation of	14252876	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61865954	2013-08-14

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16247128	Continuation of	15288244	2016-10-07
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15288244	Continuation of	14252863	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61865954	2013-08-14

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15288244	Continuation of	14252865	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61870698	2013-08-27

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252865	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15288244	Continuation of	14252868	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61891217	2013-10-15

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15288244	Continuation of	15099413	2016-04-14
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15099413	Continuation of	14252871	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
61811981	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61891217	2013-10-15

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Patented		Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15288244	Continuation of	14831696	2015-08-20	9545930	2017-01-17

Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14831696	Continuation of	14252876	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61870698	2013-08-27
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61891217	2013-10-15

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16247128	Continuation of	15288244	2016-10-07

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

☐ 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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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	AutoConnect Holdings LLC

Mailing Address Information For Applicant:

Address 1	21 Wedgwood Road		
Address 2			
City	Wellesley	**State/Province**	MA
Country	US	Postal Code	02481
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.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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	/Sangki Park/			Date (YYYY-MM-DD)	2021-11-01
First Name	Sangki	Last Name	Park	Registration Number	77261

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

PTO/AIA/14 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Filer:	Sangki Park/Kristyn Waldhauser
Attorney Docket Number:	50365-0005002

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	80	80
UTILITY SEARCH FEE	2111	1	350	350
UTILITY EXAMINATION FEE	2311	1	400	400
Pages:				
UTILITY APPL SIZE FEE PER 50 SHEETS >100	2081	1	210	210
Claims:				
Miscellaneous-Filing:				
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1040**

Electronic Acknowledgement Receipt

EFS ID:	44169572
Application Number:	17515961
International Application Number:	
Confirmation Number:	5218
Title of Invention:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	26191
Filer:	Sangki Park/Kristyn Waldhauser
Filer Authorized By:	Sangki Park
Attorney Docket Number:	50365-0005002
Receipt Date:	01-NOV-2021
Filing Date:	
Time Stamp:	15:08:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1040
RAM confirmation Number	E2021A1F08551287
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	Transmittal.pdf	94738 edee1395d46737bf0ac7c4bd8a53195be0fd954b	no	2
Warnings:					
Information:					
2		Application.pdf	6811048 be8a2fc768f62cda829a17077c95e2f158898d6b	yes	106

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	102
Claims	103	105
Abstract	106	106

Warnings:					
Information:					
3	Drawings-other than black and white line drawings	Figures.pdf	651177 bea2a9b68f94d919fc38191db15d47585984d019	no	39
Warnings:					
Information:					
4	Oath or Declaration filed	Declaration.pdf	90578 2dbca2443bcc3f1dc9ce96d3a78b57e78ce771ed	no	1
Warnings:					
Information:					
5	Power of Attorney	POA.pdf	153106 89425f008bbc602be98caaf35f498ab475c8c761	no	2

Warnings:					
Information:					
6	Application Data Sheet	ADS.pdf	1825916 546aaa0139e4486cb7df540bfbcb9e69aa01db97	no	23
Warnings:					
Information:					
7	Fee Worksheet (SB06)	fee-info.pdf	46826 eeb11f9a4fab5fd351f964cbc6651e1b8b952eee	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	9673389		

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
17/515,961	11/01/2021	Christopher P. Ricci	50365-0005002

CONFIRMATION NO. 5218

26191
FISH & RICHARDSON P.C. (TC)
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

IMPROPER CFR REQUEST

OC000000129771197

Date Mailed: 11/16/2021

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Continuity, Priority Claims, Petitions, and Non-Publication Requests

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- One or more of the benefit claims under 35 U.S.C. § 120 cannot be included on the Filing Receipt since applicant did not specify whether the application is a continuation, divisional or continuation-in-part of the prior application. Applicant must submit a new application data sheet (ADS) that sets forth the relationship, and the ADS must be accompanied by a petition under 37 CFR 1.78 if filed after the time period set forth in 37 CFR 1.78.

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**.

/rsantos/

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
17/515,961	11/01/2021	2858	1040	50365-0005002	20	2

CONFIRMATION NO. 5218

26191
FISH & RICHARDSON P.C. (TC)
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

FILING RECEIPT

OC000000129771498

Date Mailed: 11/16/2021

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

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 corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

Inventor(s)

Christopher P. Ricci, Saratoga, CA;

Applicant(s)

AutoConnect Holdings LLC, Wellesly, MA

Power of Attorney: The patent practitioners associated with Customer Number 26191

Domestic Priority data as claimed by applicant

This application is a CON of 17/233,412 04/16/2021 PAT 11163931
which is a CON of 16/247,128 01/14/2019
which is a CON of 14/252,663 04/14/2014 PAT 9411925
which claims benefit of 61/811,961 04/15/2013
and claims benefit of 61/865,954 08/14/2013
and claims benefit of 61/870,698 08/27/2013
and claims benefit of 61/891,217 10/15/2013
and claims benefit of 61/904,205 11/14/2013
and claims benefit of 61/924,572 01/07/2014
and claims benefit of 61/926,749 01/13/2014
and said 16/247,128 01/14/2019
is a CON of 14/252,865 04/15/2014 ABN
which claims benefit of 61/811,981 04/15/2013
and claims benefit of 61/865,954 08/14/2013
and claims benefit of 61/870,698 08/27/2013
and claims benefit of 61/891,217 10/15/2013

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and claims benefit of 61/924,572 01/07/2014
and claims benefit of 61/926,749 01/13/2014
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and claims benefit of 61/891,217 10/15/2013
and claims benefit of 61/904,205 11/14/2013
and claims benefit of 61/924,572 01/07/2014
and claims benefit of 61/926,749 01/13/2014
and said 16/247,128 01/14/2019
is a CON of 15/099,413 04/14/2016 ABN
which is a CON of 14/252,871 04/15/2014 ABN
which claims benefit of 61/811,981 04/15/2013
and said 16/247,128 01/14/2019
is a CON of 14/831,696 08/20/2015 PAT 9545930
which is a CON of 14/252,876 04/15/2014 ABN
which claims benefit of 61/811,981 04/15/2013
and claims benefit of 61/865,954 08/14/2013
and claims benefit of 61/870,698 08/27/2013
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and claims benefit of 61/904,205 11/14/2013
and claims benefit of 61/924,572 01/07/2014
and claims benefit of 61/926,749 01/13/2014
and said 16/247,128 01/14/2019
is a CON of 15/288,244 10/07/2016 ABN
which is a CON of 14/252,863 04/15/2014 ABN
which claims benefit of 61/811,981 04/15/2013
and claims benefit of 61/865,954 08/14/2013
and claims benefit of 61/870,698 08/27/2013
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and claims benefit of 61/924,572 01/07/2014
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and said 16/247,128 01/14/2019
is a CON of 15/288,244 10/07/2016 ABN

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: 11/12/2021

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/515,961**

Projected Publication Date: 02/24/2022

Non-Publication Request: No

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

ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Preliminary Class

324

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.

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 50365-0005002	Application No. 17/515,961
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant AutoConnect Holdings LLC	
(37 CFR §1.98(b))		Filing Date November 1, 2021	Group Art Unit 2858

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Filing Date If Appropriate	Class	Subclass
	1.	5838251	11/17/1998	Brinkmeyer et al.			
	2.	6124805	9/23/2000	Gabbard			
	3.	6542794	4/1/2003	Obradovich			
	4.	6587755	7/1/2003	Smith et al.			
	5.	7404086	7/22/2008	Sands et al.			
	6.	8187182	5/29/2012	Kahn et al.			
	7.	8402268	3/19/2013	Dierickx			
	8.	8713704	4/29/2014	Davis et al.			
	9.	8850535	9/30/2014	Liberman et al.			
	10.	8979159	3/17/2015	Ricci			
	11.	9324234	4/26/2016	Ricci et al.			
	12.	9330567	5/3/2016	Ricci			
	13.	9545930	1/17/2017	Ricci			
	14.	13/420236	3/14/2012	Ricci et al.			
	15.	13/420240	3/14/2012	Ricci			
	16.	13/462593	5/2/2012	Ricci et al.			
	17.	13/462596	5/2/2012	Ricci et al.			
	18.	13/678673	11/16/2012	Ricci			
	19.	13/678691	11/16/2012	Ricci			
	20.	13/678699	11/16/2012	Ricci			
	21.	13/678710	11/16/2012	Ricci			
	22.	13/678722	11/16/2012	Ricci			
	23.	13/678726	11/16/2012	Ricci			
	24.	13/678735	11/16/2012	Ricci			
	25.	13/678745	11/16/2012	Ricci			
	26.	13/678753	11/16/2012	Ricci			
	27.	13/678762	11/16/2012	Ricci			

Examiner Signature	Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

TOYOTA EXHIBIT 1002
Page 187 of 472

Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 50365-0005002	Application No. 17/515,961
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant AutoConnect Holdings LLC	
(37 CFR §1.98(b))		Filing Date November 1, 2021	Group Art Unit 2858

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Filing Date If Appropriate	Class	Subclass
	28.	13/678773	11/16/2012	Ricci			
	29.	13/679204	11/16/2012	Ricci			
	30.	13/679234	11/16/2012	Ricci			
	31.	13/679292	11/16/2012	Ricci			
	32.	13/679306	11/16/2012	Ricci			
	33.	13/679350	11/16/2012	Ricci			
	34.	13/679358	11/16/2012	Ricci			
	35.	13/679363	11/16/2012	Ricci			
	36.	13/679368	11/16/2012	Ricci			
	37.	13/679369	11/16/2012	Ricci			
	38.	13/679400	11/16/2012	Ricci			
	39.	13/679412	11/16/2012	Ricci			
	40.	13/679441	11/16/2012	Ricci			
	41.	13/679443	11/16/2012	Ricci			
	42.	13/679459	11/16/2012	Ricci			
	43.	13/679476	11/16/2012	Ricci			
	44.	13/679676	11/16/2012	Ricci			
	45.	13/679680	11/16/2012	Ricci			
	46.	13/679815	11/16/2012	Ricci			
	47.	13/679842	11/16/2012	Ricci			
	48.	13/679857	11/16/2012	Ricci			
	49.	13/679864	11/16/2012	Ricci			
	50.	13/679875	11/16/2012	Ricci			
	51.	13/679878	11/16/2012	Ricci			
	52.	13/679887	11/16/2012	Ricci			
	53.	13/840240	11/16/2012	Ricci			
	54.	14/252863	4/15/2014	Ricci			

Examiner Signature	Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

TOYOTA EXHIBIT 1002
Page 188 of 472

Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 50365-0005002	Application No. 17/515,961
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant AutoConnect Holdings LLC	
(37 CFR §1.98(b))		Filing Date November 1, 2021	Group Art Unit 2858

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Filing Date If Appropriate	Class	Subclass
	55.	14/252865	4/15/2014	Ricci			
	56.	14/252868	4/15/2014	Ricci			
	57.	14/831696	8/20/2015	Ricci			
	58.	15/099413	4/14/2016	Ricci			
	59.	2002/0184091	12/5/2002	Pudar			
	60.	2003/0046552	3/6/2003	Hamid			
	61.	2004/0014423	1/22/2004	Croome et al.			
	62.	2004/0039504	2/26/2004	Coffee et al.			
	63.	2004/0148526	7/29/2004	Sands			
	64.	2006/0029015	2/9/2006	Hinsey			
	65.	2006/0053296	3/9/2006	Busboom et al.			
	66.	2007/0100514	5/3/2007	Park			
	67.	2007/0250920	10/25/2007	Lindsay			
	68.	2009/0299572	12/3/2009	Fujikawa et al.			
	69.	2009/0305667	12/10/2009	Schultz			
	70.	2010/0023204	1/28/2010	Basir et al.			
	71.	2010/0162319	6/24/2010	Piepenbrink et al.			
	72.	2010/0318794	12/16/2010	Dierickx			
	73.	2011/0246301	10/6/2011	Bae et al.			
	74.	2012/0116609	5/10/2012	Jung et al.			
	75.	2012/0231738	9/13/2012	Khamharn			
	76.	2013/0030645	1/31/2013	Divine			
	77.	2013/0104203	4/25/2013	Davis et al.			
	78.	2013/0106581	5/2/2013	Hinsey			
	79.	2013/0145360	6/6/2013	Ricci			
	80.	2013/0151088	6/13/2013	Ricci			
	81.	2013/0167159	6/27/2013	Ricci			

Examiner Signature	Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

TOYOTA EXHIBIT 1002
Page 189 of 472

Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 50365-0005002	Application No. 17/515,961
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant AutoConnect Holdings LLC	
(37 CFR §1.98(b))		Filing Date November 1, 2021	Group Art Unit 2858

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Filing Date If Appropriate	Class	Subclass
	82.	2013/0241720	9/19/2013	Ricci et al.			
	83.	2013/0245882	9/19/2013	Ricci			
	84.	2013/0282946	10/24/2013	Ricci			
	85.	2013/0293364	11/7/2013	Ricci et al.			
	86.	2013/0293452	11/7/2013	Ricci et al.			
	87.	2014/0028542	1/30/2014	Lovitt et al.			
	88.	2014/0189807	7/3/2014	Cahill et al.			
	89.	2014/0309892	10/16/2014	Ricci			
	90.	2014/0310031	10/16/2014	Ricci			
	91.	2014/0310788	10/16/2014	Ricci			
	92.	2016/0050201	2/18/2016	Parker			
	93.	2016/0247377	8/25/2016	Ricci			
	94.	2016/0306615	10/20/2016	Ricci			
	95.	2017/0272421	9/21/2017	Murakami et al.			
	96.	2018/0288029	10/4/2018	Nath et al.			
	97.	2020/0008060	1/2/2020	Dennis et al.			
	98.	2020/0013492	1/9/2020	Ansari et al.			

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Translation	Class	Subclass

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	99.	[NO AUTHOR LISTED], " User's Manual," Ford Motor Company, February 16, 2011, 102 pages
	100.	[NO AUTHOR LISTED], "2013 MKZ Owner's Manual," Lincoln Motor Company, September 2012, 474 pages
	101.	[NO AUTHOR LISTED], "A Technical Companion to Windows Embedded Automotive 7," Windows Embedded Automotive 7, July 2010, 100 pages

Examiner Signature	Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 50365-0005002	Application No. 17/515,961
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant AutoConnect Holdings LLC	
(37 CFR §1.98(b))		Filing Date November 1, 2021	Group Art Unit 2858

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	102.	[NO AUTHOR LISTED], "MyFord Touch Defines Intuitive Driver Experience: Advanced Capabilities All Voice-Controlled Now," Ford Motor Company, January 7, 2010, 7 pages
	103.	[NO AUTHOR LISTED], "MyFord Touch/ MyLincoln Touch Handbook," Ford Motor Company, June 2010, 52 pages
	104.	[NO AUTHOR LISTED], "SYNC Handbook: Quick Access to Frequently Used Features and Services," Ford Motor Company et al., April 2009, 23 pages
	105.	[NO AUTHOR LISTED], "SYNC with MyFord Touch + Audio by Sony," Ford Motor Company, June 2013, 1 page
	106.	[NO AUTHOR LISTED], "User Guide: MyFord Touch," Ford Motor Company, February 2012, 12 pages
	107.	Browne [online], "Which Cars Are Made With a Remote Start System?," upon information and belief, available no later than December 1, 2020, retrieved from URL <https://itstillruns.com/program-am6-remote-starter-7451748.html>, 3 pages
	108.	Cripps [online], "Hottie in seat 17D? Send her a drink!," Updated April 24, 2013, retrieved July 12, 2021, retrieved from URL <https://www.cnn.com/travel/article/virgin-seat-to-seat-service/index.html>, 2 pages
	109.	Estrada [online], "Should You Pay for In-Car Navigation, or Use Your Phone?," July 30, 2012, retrieved on July 12, 2021, retrieved from URL <https://www.carsdirect.com/buying-guides/should-you-pay-for-in-car-navigation-or-use-your-phone>, 2 pages
	110.	Everett [online], "Virgin launch in-flight flirting system," April 25, 2013, retrieved on July 12, 2021, retrieved from URL <https://www.cosmopolitan.com/uk/love-sex/relationships/a19867/in-flight-flirting-virgin-entertainment-drink-system/>, 3 pages
	111.	ford.com, [online] "About SYNC," December 1, 2010, retreived on August 19, 2020, retrieved from URL <http://www.ford.com/technology/sync/about>, 1 page
	112.	Hollister [online], "Exclusive: VW's Terminal Mode prototype with a Nokia N97 at the helm, we go hands-on," September 29, 2010, retrieved on July 12, 2021, retrieved from URL <https://www.engadget.com/2010-09-29-exclusive-vws-terminal-mode-prototype-has-a-nokia-n97-at-the-h.html#/>, 7 pages
	113.	Howard [online], "MirrorLink phone-to-dashboard screen mirroring gets rolling with 2 Sony car radios," August 15, 2012, retrieved on July 12, 2021, retrieved from URL <https://www.extremetech.com/extreme/134400-mirrorlink-phone-to-dashboard-connector-gets-rolling-with-2-sony-car-radios>, 4 pages
	114.	Hyundai [online], "BlueLink: User's Manual," May 22, 2013, retrieved on July 12, 2021, retrieved from URL <https://www.manualslib.com/manual/667719/Hyundai-Bluelink.html?page=14>, 1 page
	115.	Levere [online], "Business Travel; Passengers on Jetblue will be able to watch live satellite-television programming from their seats," July 21, 1999, retrieved on July 12, 2021, retrieved from URL <https://www.nytimes.com/1999/07/21/business/business-travel-passengers-jetblue-will-be-able-watch-live-satellite-television.html>, 3 pages
	116.	oemdtc, [online] "12M02 - Warranty Extension Covering Accessory Protocol Interface Module (APIM) Software and Hardware- 2011-2014 Ford & Lincoln," May 11, 2016, retrieved on August 19, 2020, retrieved from URL <https://ford.oemdtc.com/1745/12m02-warranty-extension-covering-accessory-protocol-interface-modlue-apim-software-and-hardware-2011-2014-ford-lincoln>,54 pages

Examiner Signature	Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

TOYOTA EXHIBIT 1002
Page 191 of 472

Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 50365-0005002	Application No. 17/515,961
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant AutoConnect Holdings LLC	
(37 CFR §1.98(b))		Filing Date November 1, 2021	Group Art Unit 2858

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	117.	Quain [online], "Parental Controls Come to the Car," April 12, 2009, retrieved on July 12, 2021, retrieved from URL <https://wheels.blogs.nytimes.com/2009/04/12/parental-controls-come-to-the-car/>, 2 pages
	118.	Raoe [online], "American Airlines and Gogo Roll Out In-Flight Personal Device Video Streaming to 767 Fleet," August 3, 2011, retrieved on July 12, 2021, retrieved from URL <https://techcrunch.com/2011/08/03/american-airlines-rolls-out-in-flight-personal-device-video-streaming-to-767-fleet/>, 2 pages
	119.	Rettie [online], "BMW's Car-to-x Communications," October 21, 2011, retrieved on July 12, 2021, retrieved from URL<https://www.roadandtrack.com/new-cars/car-technology/news/a3276/bmws-car-to-x-communications-27582/>, 3 pages
	120.	RMT [online], "The Difference Between Active and Passive GPS Tracking Devices," May 25, 2009, retrieved on July 12, 2021, retrieved from URL <https://rmtracking.com/blog/2009/05/25/the-difference-between-active-and-passive-gps-tracking-devices/>, 2 pages
	121.	Vartabedian [online], "Remote helps a car keep its cool," May 28, 2008, retrieved on July 12, 2021, retrieved from URL <https://www.latimes.com/archives/la-xpm-2008-may-28-hy-wheels28-story.html>, 6 pages

Examiner Signature	Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor	:	Christopher P. Ricci	Art Unit	:	OPAP
Application No.	:	17/515,961	Examiner	:	Central, Docket
Filed	:	November 1, 2021	Conf. No.	:	5218
Title	:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES			

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

INFORMATION DISCLOSURE STATEMENT

Please consider the documents listed on the disclosure form submitted with this statement. Copies of the documents are being submitted with this statement to the extent required under 37 C.F.R. § 1.98(a)(2).

Under 35 U.S.C. § 120, this application relies on the earlier filing date of application number 17/233,412, filed on April 16, 2021. All listed documents were submitted to and/or cited by the Office in the prior application, and so copies of those documents are not provided in this application.

This statement is being filed within three months of the filing date of the application or before the receipt of a first action on the merits.

Apply any necessary charges or credits applicable under 37 C.F.R. § 1.17(p) to deposit account 06-1050, referencing the above attorney docket number.

Please contact the undersigned if there are any questions regarding this statement.

Respectfully submitted,

Date: January 24, 2022

/Sangki Park, Reg. No. 77,261/
Sangki Park, Reg. No. 77,261

Customer Number 26191
Fish & Richardson P.C.
Telephone: +1 (612) 638-5763
Facsimile: (877) 769-7945

62877589.doc

Electronic Acknowledgement Receipt

EFS ID:	44816646
Application Number:	17515961
International Application Number:	
Confirmation Number:	5218
Title of Invention:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	26191
Filer:	Sangki Park/Callie Benge
Filer Authorized By:	Sangki Park
Attorney Docket Number:	50365-0005002
Receipt Date:	24-JAN-2022
Filing Date:	01-NOV-2021
Time Stamp:	15:04:42
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)	IDS.pdf	232438 85177be1af790399e718491f5a6c7418910b 4359	no	7

Warnings:

Information:	
This is not an USPTO supplied IDS fillable form	
Total Files Size (in bytes):	232438

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
17/515,961	11/01/2021	Christopher P. Ricci	50365-0005002

CONFIRMATION NO. 5218

26191
FISH & RICHARDSON P.C. (TC)
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

PUBLICATION NOTICE

OC000000132045234

Title:ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Publication No.US-2022-0058329-A1
Publication Date:02/24/2022

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

Doc Code: PET.POA.WDRW
Document Description: Petition to withdraw attorney or agent (SB83)

PTO/SB/83 (04-13)
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.

REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS

Application Number	17/515961
Filing Date	November 1, 2021
First Named Inventor	Christopher P. Ricci
Art Unit	2858
Examiner Name	
Practitioner Docket Number	50365-0005002

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

Please withdraw me as attorney or agent for the above-identified patent application, and

☒ all the practitioners of record;

☐ the practitioners (with registration numbers) of record listed on the attached paper(s); or

☐ the practitioners of record associated with Customer Number: _____

NOTE: The immediately preceding box should only be marked when the practitioners were appointed using the listed Customer Number.

The reason(s) for this request are those described in 37 CFR:

☐ 11.116(a)(1) ☐ 11.116(a)(2) ☒ 11.116(a)(3)
☐ 11.116(b)(1) ☐ 11.116(b)(2) ☐ 11.116(b)(3)
☐ 11.116(b)(4) ☐ 11.116(b)(5) ☐ 11.116(b)(6)
☐ 11. 116(b)(7) Please explain below:

Certifications

Check each box below that is factually correct. WARNING: If a box is left unchecked, the request will likely not be approved.

1. ☒ I/We have given reasonable notice to the client, prior to the expiration of the response period, that the practitioner(s) intend to withdraw from employment.

2. ☒ I/We have delivered to the client or a duly authorized representative of the client all papers and property (including funds) to which the client is entitled.

3. ☒ I/We have notified the client of any responses that may be due and the time frame within which the client must respond.

Please provide an explanation, if necessary:

This collection of information is required by 37 CFR 1.36. 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 15 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/83 (04-13)
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.

REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS

Complete the following section only when the correspondence address will change. *Changes of address will only be accepted to the first named inventor or an assignee that has properly made itself of record pursuant to 37 CFR 3.71.*

Change the correspondence address and direct all future correspondence to:

A. ☐ The address of the first named inventor or assignee associated with Customer Number: _____

OR

B. ☒ First Named Inventor or Assignee Christopher P. Ricci

Address 80 S 8th St, Suite 900

City Minneapolis	State MN	Zip 55402	Country US

Telephone 855-750-9951 | Email info@aventechlaw.com

I am authorized to sign on behalf of myself and all withdrawing practitioners.

Signature /Sangki Park/

Name Sangki Park | Registration No. 77261

Address 60 South Sixth Street, Suite 3200

City Minneapolis	State MN	Zip 55402	Country US

Date January 30, 2023 | Telephone No. 612-335-5070

NOTE: Withdrawal is effective when approved rather than when received.

This collection of information is required by 37 CFR 1.36. 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 15 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.

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.

Electronic Acknowledgement Receipt

EFS ID:	47449588
Application Number:	17515961
International Application Number:	
Confirmation Number:	5218
Title of Invention:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	26191
Filer:	Sangki Park/Kristyn Waldhauser
Filer Authorized By:	Sangki Park
Attorney Docket Number:	50365-0005002
Receipt Date:	30-JAN-2023
Filing Date:	01-NOV-2021
Time Stamp:	15:56:40
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	Request for withdrawal as attorney or agent	50365-0005002_RequestWithdrawal.pdf	629216 35de1136af2e867ea70f37e784d22e95ad78eeca	no	3

Warnings:

Information:	
Total Files Size (in bytes):	629216

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
17/515,961	11/01/2021	Christopher P. Ricci	50365-0005002

CONFIRMATION NO. 5218

IMPROPER CPOA LETTER

26191
FISH & RICHARDSON P.C. (TC)
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

OC000000137331170

Date Mailed: 02/03/2023

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 01/30/2023. The power of attorney in this application is not accepted for the reason(s) listed below:

- There is no alternate correspondence address, either in the application file or the request. Please provide a correspondence address to which further correspondence can be directed.

/ckhlok/

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

TOYOTA EXHIBIT 1002
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/515,961	11/01/2021	Christopher P. Ricci	50365-0005002	5218

26191 7590 02/08/2023

FISH & RICHARDSON P.C. (TC)
PO BOX 1022
MINNEAPOLIS, MN 55440-1022

EXAMINER	
WHITMORE, STACY	

ART UNIT	PAPER NUMBER
2851	

NOTIFICATION DATE	DELIVERY MODE
02/08/2023	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):

PATDOCTC@fr.com

Office Action Summary	Application No. 17/515,961	Applicant(s) Ricci, Christopher P.	
	Examiner STACY WHITMORE	Art Unit 2851	AIA (FITF) Status Yes

-- 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 11/01/2021.

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

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

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

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

Disposition of Claims*

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

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-20 is/are rejected.

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

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

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

Application Papers

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

11)☑ The drawing(s) filed on 11/01/2021 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 11/01/2021.

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, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 102

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

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

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

2. Claim(s) 1-3, 5, 7-13, 15, and 17-20 is/are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Divine (US 2013/0030645).

3. As for claims 1-3, 5, 7-13, 15, and 17-20, Divine discloses the invention as claimed, including:

1. A system to access one or more user profiles that govern one or more vehicle functions comprising:

a processor [fig. 1, element 4] and verification module adapted to verify, using one or more of biometric information, gesture recognition, facial recognition and device identification information, that a user has authority to access the one or more user profiles [paragraphs 0029-0034],

the one or more profiles being stored in one or more of a vehicle, a cloud and a communications device; and an edit module adapted to allow the user to make one or more edits to the one or more user profiles.

2. The system of claim 1, further comprising one or more templates on which the one or more user profiles are based [paragraph 0029-0034, 0038, 0054].

3. The system of claim 1, wherein the verification module further receives a request to access a specific user profile, the user profile storing preferences for the user that govern one or more of vehicle functions, vehicle preferences and vehicle infotainment settings [paragraphs 0041-0042].

5. The system of claim 1, further comprising a profile subsystem adapted to resolve conflicts between the one or more edits and the one or more user profiles [paragraph 0061].

7. The system of claim 1, wherein the one or more user profiles include one or more of: vehicle preferences, seat settings, HVAC settings, recorded settings, geographic location information, mobile device information, mobile device electronic addresses, Internet browsing history and content, application store selections, user settings, enabled features, disabled features, private information, social network information,

user presence information, user business account information, secure data, biometric information, audio information from on board microphones, video information from on board cameras, Internet browsing history and browsed content from using an on board computer, local area network settings, electronic map information, user purchasing preferences, user driving behavior and preferences, user behavior with respect to a selected object, user socioeconomic status, user residence and business addresses, user communication devices and electronic addresses therefor, user biometric information and other user identification information, user family members and, for each family member, the foregoing information [paragraphs 0026-0027, 0029-0034, 0045, 0050, 0053].

8. The system of claim 1, wherein in at least one of the one or more user templates is based on a global standard template, wherein the global standard template is common among one or more of vehicle manufacturers, company vehicles and a geographic area [paragraphs 0005, 0034, 0061, 0064].

9. The system of claim 1, wherein the one or more user profiles can be transferred from one or more of car-to-car, device-to-car, car-to-device, car-to-cloud, and cloud-to-car [paragraphs 0027, 0053].

10. The system of claim 9, wherein the device is a mobile communications device [paragraphs 0005, 0033].

4. Claims 11-13, 15, and 17-20 are directed to a method with substantially equivalent claim limitations as claims 1-3, 5, and 10, and are rejected for the same reasons as set forth supra.

Claim Rejections - 35 USC § 103

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

The following is a quotation of 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.

5. Claim(s) 4, 6, 14, and 16 is/are rejected under 35 U.S.C. 103 as being unpatentable over Divine (US 2013/0030645) in view of Sands (US 2004/0148526).

6. As for claims 4, 6, 14, and 16, Divine discloses the invention substantially as claimed, including the system and method to access one of more user profiles as cited above in the rejection of claims 1-3, 5, 7-13, 15, and 17-20.

Divine does not specifically disclose:

4. The system of claim 1, further comprising an encryption module adapted to perform authentication of the user.

6. The system of claim 1, wherein the one or more user profiles are at least partially encrypted.

Sands discloses the encryption of user profiles [paragraph 0053].

It would have been obvious to one of ordinary skill in the art at the time the invention was effectively filed to combine the teachings of Divine and Sands because one of ordinary skill in the art would have readily chosen well known techniques such as encryption for the purpose of protecting personal and sensitive data about users from unauthorized use or theft.

7. Claims 14 and 16 are directed to a method with substantially equivalent claim limitations as claims 4 and 6, and are rejected for the same reasons as set forth supra.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to STACY WHITMORE whose telephone number is (571)272-1685. The examiner can normally be reached M-F 7:30AM - 4:00 PM.

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, Jack Chiang can be reached on (571)-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/STACY WHITMORE/
Primary Examiner, Art Unit 2851
February 3, 2023

Notice of References Cited	Application/Control No. 17/515,961	Applicant(s)/Patent Under Reexamination Ricci, Christopher P.	
	Examiner STACY WHITMORE	Art Unit 2851	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-20130030645-A1	01-2013	Divine; Lucas	B60K35/00	709/217
*	B	US-20040148526-A1	07-2004	Sands, Justin M.	H04L63/08	726/5
	C					
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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
	17/515,961	Ricci, Christopher P.
	Examiner	Art Unit
	STACY WHITMORE	2851

CPC - Searched*		
Symbol	Date	Examiner
(G06F30/392 OR G06F30/398 OR H05K3/0005 OR G06F21/32 OR G06F30/39 OR G06F21/44 OR G06F21/31 OR B60K2370/741 OR B60K2370/73).cpc.	02/03/2023	SW

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
PE2E search with limits to CPC - see attached	02/03/2023	SW
inventor and applicant search - see attached	02/03/2023	SW
IP.com search - see attached	02/03/2023	SW

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

/S.W/ Primary Examiner, Art Unit 2851	

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Bibliographic Data

Application No: 17/515,961

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /STACY WHITMORE/ Examiner's Signature | Initials

Title: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/01/2021	716	2851	50365-0005002
RULE			

APPLICANTS

AutoConnect Holdings LLC, Wellesly, MA,

INVENTORS

Christopher P. Ricci, Saratoga, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 17233412 04/16/2021 PAT 11163931

17233412 is a CON of 16247128 01/14/2019ABN

16247128 is a CON of 15288244 10/07/2016ABN

16247128 is a CON of 15099413 04/14/2016ABN

15288244 is a CON of 15099413 04/14/2016ABN

15288244 is a CON of 14831696 08/20/2015 PAT 9545930

16247128 is a CON of 14831696 08/20/2015 PAT 9545930

15288244 is a CON of 14252865 04/15/2014ABN

15288244 is a CON of 14252868 04/15/2014ABN

15288244 is a CON of 14252863 04/15/2014ABN

16247128 is a CON of 14252865 04/15/2014ABN

16247128 is a CON of 14252868 04/15/2014ABN

15099413 is a CON of 14252871 04/15/2014ABN

14831696 is a CON of 14252876 04/15/2014ABN

16247128 is a CON of 14252663 04/14/2014 PAT 9411925

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14252865 has PRO of 61926749 01/13/2014

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14252876 has PRO of 61904205 11/14/2013

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14252663 has PRO of 61904205 11/14/2013

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14252865 has PRO of 61891217 10/15/2013

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14252876 has PRO of 61891217 10/15/2013

14252663 has PRO of 61891217 10/15/2013

14252863 has PRO of 61891217 10/15/2013

14252868 has PRO of 61891217 10/15/2013

14252865 has PRO of 61870698 08/27/2013

14252871 has PRO of 61870698 08/27/2013

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14252663 has PRO of 61865954 08/14/2013

14252871 has PRO of 61865954 08/14/2013

14252876 has PRO of 61865954 08/14/2013

14252868 has PRO of 61811981 04/15/2013

14252871 has PRO of 61811981 04/15/2013

14252876 has PRO of 61811981 04/15/2013

14252863 has PRO of 61811981 04/15/2013

14252663 has PRO of 61811961 04/15/2013

14252865 has PRO of 61811981 04/15/2013

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

11/12/2021

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

ADDRESS

FISH & RICHARDSON P.C. (TC)
PO BOX 1022
MINNEAPOLIS, MN 55440-1022
UNITED STATES

FILING FEE RECEIVED

$1,040

17515961
Search History

Report Run Date: 2023-02-03 UTC
Searches: 2
Markers: 0

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Search #	Timestamp	Results	Page
1	2023-02-03 16:55 UTC	42,846,036	3
2	2023-02-03 16:56 UTC	18,428,946	5

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Content: Patents + NPL (192)

US Patents | US Designs | US Applications | EPO Patents | EPO Applications | China Patents | China Applications | Japan Patents | Japan Applications | Korea Patents | Korea Applications | WIPO Applications | Argentina Patents | Argentina Applications | Brazil Patents | Brazil Applications | Canada Patents | Canada Applications | Chile Patents | Chile Applications | Colombia Applications | Costa Rica Applications | Cuba Patents | Cuba Applications | Dominican Republic Applications | Ecuador Patents | Ecuador Applications | El Salvador Applications | Guatemala Applications | Honduras Applications | Mexico Patents | Mexico Applications | Nicaragua Patents | Panama Applications | Peru Applications | Trinidad & Tobago Patents | Uruguay Applications | Austria Patents | Austria Applications | Belarus Patents | Belgium Patents | Belgium Applications | Bosnia & Herzegovina Patents | Bosnia & Herzegovina Applications | Bulgaria Patents | Bulgaria Applications | Croatia Patents | Croatia Applications | Czech Republic Patents | Czech Republic Applications | Czechoslovakia Patents | Czechoslovakia Applications | Denmark Patents | Denmark Applications | Estonia Patents | Estonia Applications | EUIPO Patents | Finland Patents | Finland Applications | France Patents | France Applications | Germany Patents | Germany Applications | Great Britain Patents | Great Britain Applications | Greece Patents | Greece Applications | Hungary Patents | Hungary Applications | Iceland Patents | Iceland Applications | Ireland Patents | Ireland Applications | Italy Patents | Italy Applications | Latvia Patents | Latvia Applications | Lithuania Patents | Lithuania Applications | Luxembourg Patents | Luxembourg Applications | Malta Patents | Monaco Patents | Montenegro Patents | Montenegro Applications | Netherlands Patents | Netherlands Applications | Norway Patents | Norway Applications | Poland Patents | Poland Applications | Portugal Patents | Portugal Applications | Republic of Moldova Patents | Republic of Moldova Applications | Romania Patents | Romania Applications | San Marino Patents | San Marino Applications | Serbia Patents | Serbia Applications | Slovakia Patents | Slovakia Applications | Slovenia Patents | Spain Patents | Spain Applications | Sweden Patents | Sweden Applications | Switzerland Patents | Switzerland Applications | Ukraine Patents | Yugoslavia/Serbia and Montenegro Patents | Yugoslavia/Serbia and Montenegro Applications | Armenia Patents | Australia Patents | Australia Applications | Cyprus Patents | Gulf Cooperation Council Patents | Hong Kong Patents | India Patents | India Applications | Indonesia Patents | Indonesia Applications | Israel Patents | Israel Applications | Jordan Patents | Jordan Applications | Kyrgyzstan Patents | Macao Applications | Malaysia Patents | Mongolia Patents | New Zealand Patents | Philippines Patents | Philippines Applications | Saudi Arabia Patents | Saudi Arabia Applications | Singapore Patents | Singapore Applications | Taiwan Patents | Taiwan Applications | Tajikistan Patents | Tajikistan Applications | Thailand Patents | Thailand Applications | Uzbekistan Patents | Vietnam Patents | Algeria Patents | ARIPO Patents | ARIPO Applications | Egypt Patents | Kenya Patents | Malawi Patents | Morocco Patents | Morocco Applications | OAPI Patents | South Africa Patents | Tunisia Applications | Zambia Patents | Zimbabwe Patents | EAPO Patents | EAPO Applications | Georgia Patents | Georgia Applications | Kazakhstan Patents | Kazakhstan Applications | Russia Patents | Russia Applications | Turkey Patents | Turkey Applications | IEEE Xplore Publications: IEEE Periodicals | IEEE Xplore Publications: IEEE Conferences | IEEE Xplore Publications: IEEE Standards | IEEE Xplore Publications: IEEE Early Access | IEEE Xplore Publications: SMPTE Periodicals | IEEE Xplore Publications: SMPTE Conferences | IEEE Xplore Publications: SMPTE Standards | IEEE Xplore Publications: MIT Press eBooks | IEEE Xplore Publications: Wiley-IEEE eBooks | IEEE Xplore Publications: IBM Periodicals | IEEE Xplore Publications: URSI Periodicals | IEEE Xplore Publications: VDE Conferences | IEEE Xplore Publications: Periodicals from China | IP.com Prior Art Database: The IP.com Journal | IP.com Prior Art Database: Internet Society RFC | IP.com Prior Art Database: IBM TDB Archive | IP.com Prior Art Database: Legacy Journals | IP.com Prior Art Database: Software Patent Institute | OnePetro.org: Periodicals at OnePetro.org | OnePetro.org: Conferences at OnePetro.org | Other Literature: IBM Redbooks | Other Literature: PubMed Central | Other Literature: arXiv.org

1 **2023-02-03 16:55 UTC | 42,846,036 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text

1. A system to access one or more user profiles that govern one or more vehicle functions comprising: a processor and

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verification module adapted to verify, using one or more of biometric information, gesture recognition, facial recognition and device identification information, that a user has authority to access the one or more user profiles, the one or more profiles being stored in one or more of a vehicle, a cloud and a communications device; and an edit module adapted to allow the user to make one or more edits to the one or more user profiles. 2. The system of claim 1, further comprising one or more templates on which the one or more user profiles are based. 3. The system of claim 1, wherein the verification module further receives a request to access a specific user profile, the user profile storing preferences for the user that govern one or more of vehicle functions, vehicle preferences and vehicle infotainment settings. 4. The system of claim 1, further comprising an encryption module adapted to perform authentication of the user. 5. The system of claim 1, further comprising a profile subsystem adapted to resolve conflicts between the one or more edits and the one or more user profiles. 6. The system of claim 1, wherein the one or more user profiles are at least partially encrypted. 7. The system of claim 1, wherein the one or more user profiles include one or more of: vehicle preferences, seat settings, HVAC settings, recorded settings, geographic location information, mobile device information, mobile device electronic addresses, Internet browsing history and content, application store selections, user settings, enabled features, disabled features, private information, social network information, user presence information, user business account information, secure data, biometric information, audio information from on board microphones, video information from on board cameras, Internet browsing history and browsed content from using an on board computer, local area network settings, electronic map information, user purchasing preferences, user driving behavior and preferences, user behavior with respect to a selected object, user socioeconomic status, user residence and business addresses, user communication devices and electronic addresses therefor, user biometric information and other user identification information, user family members and, for each family member, the foregoing information. 8. The system of claim 1, wherein in at least one of the one or more user templates is based on a global standard template, wherein the global standard template is common among one or more of vehicle manufacturers, company vehicles and a geographic area. 9. The system of claim 1, wherein the one or more user profiles can be transferred from one or more of car-to-car, device-to-car, car-to-device, car-to-cloud, and cloud-to-car. 10. The system of claim 9, wherein the device is a mobile communications device. 11. A method to access one or more user profiles that govern one or more vehicle functions comprising: verifying, using a processor, one or more of biometric information, gesture recognition, facial recognition and device identification information, that a user has authority to access the one or more user profiles, the one or more profiles being stored in one or more of a vehicle, a cloud and a communications device; and allowing the user to make one or more edits to the one or more user profiles. 12. The method of claim 11, wherein the one or more user profiles are based on one or more templates. 13. The method of claim 11, further comprising receiving a request to access a specific user profile, the user profile storing preferences for the user that govern one or more of vehicle functions, vehicle preferences and vehicle infotainment settings. 14. The method of claim 11, further comprising performing authentication of the user. 15. The method of claim 11, further comprising resolving conflicts between the one or more edits and the one or more user profiles. 16. The method of claim 11, wherein the one or more user profiles are at least partially encrypted. 17. The method of claim 11, wherein the one or more user profiles include one or more of: vehicle preferences, seat settings, HVAC settings, recorded settings, geographic location information, mobile device information, mobile device electronic addresses, internet browsing history and content, application store selections, user settings, enabled features, disabled features, private information, social network information, user presence information, user business account information, secure data, biometric information, audio information from on board microphones, video information from on board cameras, Internet browsing history and browsed content from using an on board computer, local area network settings, electronic map information, user purchasing preferences, user driving behavior and preferences, user behavior with respect to a selected object, user socioeconomic status, user residence and business addresses, user communication devices and electronic addresses therefor, user biometric information and other user identification information, user family members and, for each family member, the foregoing information. 18. The method of claim 11, wherein in at least one of the one or more user templates is based on a global standard template, wherein the global standard template is common among one or more of vehicle manufacturers, company vehicles and a geographic area. 19. The method of claim 11, wherein the one or more user profiles can be transferred from one or

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more of car-to-car, device-to-car, car-to-device, car-to-cloud, and cloud-to-car. 20. The method of claim 19, wherein the device is a mobile communications device.

Concept Modifiers: None

Filters: None

2 **2023-02-03 16:56 UTC | 18,428,946 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Same as Search 1

Concept Modifiers (1):
1. More Like Document: US20220058329 Access and portability of user profiles stored as templates (view)

Filters: None

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Sheet 1 of 6

Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 50365-0005002	Application No. 17/515,961
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant AutoConnect Holdings LLC	
(37 CFR §1.98(b))		Filing Date November 1, 2021	Group Art Unit 2858

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Filing Date If Appropriate	Class	Subclass
	1.	5838251	11/17/1998	Brinkmeyer et al.			
	2.	6124805	9/23/2000	Gabbard			
	3.	6542794	4/1/2003	Obradovich			
	4.	6587755	7/1/2003	Smith et al.			
	5.	7404086	7/22/2008	Sands et al.			
	6.	8187182	5/29/2012	Kahn et al.			
	7.	8402268	3/19/2013	Dierickx			
	8.	8713704	4/29/2014	Davis et al.			
	9.	8850535	9/30/2014	Liberman et al.			
	10.	8979159	3/17/2015	Ricci			
	11.	9324234	4/26/2016	Ricci et al.			
	12.	9330567	5/3/2016	Ricci			
	13.	9545930	1/17/2017	Ricci			
	14.	13/420236	3/14/2012	Ricci et al.			
	15.	13/420240	3/14/2012	Ricci			
	16.	13/462593	5/2/2012	Ricci et al.			
	17.	13/462596	5/2/2012	Ricci et al.			
	18.	13/678673	11/16/2012	Ricci			
	19.	13/678691	11/16/2012	Ricci			
	20.	13/678699	11/16/2012	Ricci			
	21.	13/678710	11/16/2012	Ricci			
	22.	13/678722	11/16/2012	Ricci			
	23.	13/678726	11/16/2012	Ricci			
	24.	13/678735	11/16/2012	Ricci			
	25.	13/678745	11/16/2012	Ricci			
	26.	13/678753	11/16/2012	Ricci			
	27.	13/678762	11/16/2012	Ricci			

Examiner Signature	Date Considered
/STACY WHITMORE/	02/03/2023

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form

Substitute Disclosure Form / U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.	Application No.
Information Disclosure Statement by Applicant (Use several sheets if necessary)	50365-0005002	17/515,961
	Applicant: AutoConnect Holdings LLC	
(37 CFR §1.98(b))	Filing Date: November 1, 2021	Group Art Unit: 2858

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Filing Date If Appropriate	Class	Subclass
	28.	13/678773	11/16/2012	Ricci			
	29.	13/679204	11/16/2012	Ricci			
	30.	13/679234	11/16/2012	Ricci			
	31.	13/679292	11/16/2012	Ricci			
	32.	13/679306	11/16/2012	Ricci			
	33.	13/679350	11/16/2012	Ricci			
	34.	13/679358	11/16/2012	Ricci			
	35.	13/679363	11/16/2012	Ricci			
	36.	13/679368	11/16/2012	Ricci			
	37.	13/679369	11/16/2012	Ricci			
	38.	13/679400	11/16/2012	Ricci			
	39.	13/679412	11/16/2012	Ricci			
	40.	13/679441	11/16/2012	Ricci			
	41.	13/679443	11/16/2012	Ricci			
	42.	13/679459	11/16/2012	Ricci			
	43.	13/679476	11/16/2012	Ricci			
	44.	13/679676	11/16/2012	Ricci			
	45.	13/679680	11/16/2012	Ricci			
	46.	13/679815	11/16/2012	Ricci			
	47.	13/679842	11/16/2012	Ricci			
	48.	13/679857	11/16/2012	Ricci			
	49.	13/679864	11/16/2012	Ricci			
	50.	13/679875	11/16/2012	Ricci			
	51.	13/679878	11/16/2012	Ricci			
	52.	13/679887	11/16/2012	Ricci			
	53.	13/840240	11/16/2012	Ricci			
	54.	14/252863	4/15/2014	Ricci			

Examiner Signature	Date Considered
/STACY WHITMORE/	02/03/2023

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form / U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.	Application No.
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	50365-0005002	17/515,961
	Applicant: AutoConnect Holdings LLC	
	Filing Date: November 1, 2021	Group Art Unit: 2858

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Filing Date If Appropriate	Class	Subclass
	55.	14/252865	4/15/2014	Ricci			
	56.	14/252868	4/15/2014	Ricci			
	57.	14/831696	8/20/2015	Ricci			
	58.	15/099413	4/14/2016	Ricci			
	59.	2002/0184091	12/5/2002	Pudar			
	60.	2003/0046552	3/6/2003	Hamid			
	61.	2004/0014423	1/22/2004	Croome et al.			
	62.	2004/0039504	2/26/2004	Coffee et al.			
	63.	2004/0148526	7/29/2004	Sands			
	64.	2006/0029015	2/9/2006	Hinsey			
	65.	2006/0053296	3/9/2006	Busboom et al.			
	66.	2007/0100514	5/3/2007	Park			
	67.	2007/0250920	10/25/2007	Lindsay			
	68.	2009/0299572	12/3/2009	Fujikawa et al.			
	69.	2009/0305667	12/10/2009	Schultz			
	70.	2010/0023204	1/28/2010	Basir et al.			
	71.	2010/0162319	6/24/2010	Piepenbrink et al.			
	72.	2010/0318794	12/16/2010	Dierickx			
	73.	2011/0246301	10/6/2011	Bae et al.			
	74.	2012/0116609	5/10/2012	Jung et al.			
	75.	2012/0231738	9/13/2012	Khamharn			
	76.	2013/0030645	1/31/2013	Divine			
	77.	2013/0104203	4/25/2013	Davis et al.			
	78.	2013/0106581	5/2/2013	Hinsey			
	79.	2013/0145360	6/6/2013	Ricci			
	80.	2013/0151088	6/13/2013	Ricci			
	81.	2013/0167159	6/27/2013	Ricci			

Examiner Signature	Date Considered
/STACY WHITMORE/	02/03/2023

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form U.S. Department of Commerce Patent and Trademark Office **Information Disclosure Statement by Applicant** (Use several sheets if necessary) (37 CFR §1.98(b))	Attorney Docket No. 50365-0005002	Application No. 17/515,961
	Applicant AutoConnect Holdings LLC	
	Filing Date November 1, 2021	Group Art Unit 2858

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Filing Date If Appropriate	Class	Subclass
	82.	2013/0241720	9/19/2013	Ricci et al.			
	83.	2013/0245882	9/19/2013	Ricci			
	84.	2013/0282946	10/24/2013	Ricci			
	85.	2013/0293364	11/7/2013	Ricci et al.			
	86.	2013/0293452	11/7/2013	Ricci et al.			
	87.	2014/0028542	1/30/2014	Lovitt et al.			
	88.	2014/0189807	7/3/2014	Cahill et al.			
	89.	2014/0309892	10/16/2014	Ricci			
	90.	2014/0310031	10/16/2014	Ricci			
	91.	2014/0310788	10/16/2014	Ricci			
	92.	2016/0050201	2/18/2016	Parker			
	93.	2016/0247377	8/25/2016	Ricci			
	94.	2016/0306615	10/20/2016	Ricci			
	95.	2017/0272421	9/21/2017	Murakami et al.			
	96.	2018/0288029	10/4/2018	Nath et al.			
	97.	2020/0008060	1/2/2020	Dennis et al.			
	98.	2020/0013492	1/9/2020	Ansari et al.			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Translation	Class	Subclass

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	99.	[NO AUTHOR LISTED], " User's Manual," Ford Motor Company, February 16, 2011, 102 pages
	100.	[NO AUTHOR LISTED], "2013 MKZ Owner's Manual," Lincoln Motor Company, September 2012, 474 pages
	101.	[NO AUTHOR LISTED], "A Technical Companion to Windows Embedded Automotive 7," Windows Embedded Automotive 7, July 2010, 100 pages

Examiner Signature	Date Considered
/STACY WHITMORE/	02/03/2023

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form U.S. Department of Commerce Patent and Trademark Office **Information Disclosure Statement by Applicant** (Use several sheets if necessary) (37 CFR §1.98(b))	Attorney Docket No. 50365-0005002	Application No. 17/515,961
	Applicant AutoConnect Holdings LLC	
	Filing Date November 1, 2021	Group Art Unit 2858

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	102.	[NO AUTHOR LISTED], "MyFord Touch Defines Intuitive Driver Experience: Advanced Capabilities All Voice-Controlled Now," Ford Motor Company, January 7, 2010, 7 pages
	103.	[NO AUTHOR LISTED], "MyFord Touch/ MyLincoln Touch Handbook," Ford Motor Company, June 2010, 52 pages
	104.	[NO AUTHOR LISTED], "SYNC Handbook: Quick Access to Frequently Used Features and Services," Ford Motor Company et al., April 2009, 23 pages
	105.	[NO AUTHOR LISTED], "SYNC with MyFord Touch + Audio by Sony," Ford Motor Company, June 2013, 1 page
	106.	[NO AUTHOR LISTED], "User Guide: MyFord Touch," Ford Motor Company, February 2012, 12 pages
	107.	Browne [online], "Which Cars Are Made With a Remote Start System?," upon information and belief, available no later than December 1, 2020, retrieved from URL <https://itstillruns.com/program-am6-remote-starter-7451748.html>, 3 pages
	108.	Cripps [online], "Hottie in seat 17D? Send her a drink!," Updated April 24, 2013, retrieved July 12, 2021, retrieved from URL <https://www.cnn.com/travel/article/virgin-seat-to-seat-service/index.html>, 2 pages
	109.	Estrada [online], "Should You Pay for In-Car Navigation, or Use Your Phone?," July 30, 2012, retrieved on July 12, 2021, retrieved from URL <https://www.carsdirect.com/buying-guides/should-you-pay-for-in-car-navigation-or-use-your-phone>, 2 pages
	110.	Everett [online], "Virgin launch in-flight flirting system," April 25, 2013, retrieved on July 12, 2021, retrieved from URL <https://www.cosmopolitan.com/uk/love-sex/relationships/a19867/in-flight-flirting-virgin-entertainment-drink-system/>, 3 pages
	111.	ford.com, [online] "About SYNC," December 1, 2010, retreived on August 19, 2020, retrieved from URL <http://www.ford.com/technology/sync/about>, 1 page
	112.	Hollister [online], "Exclusive: VW's Terminal Mode prototype with a Nokia N97 at the helm, we go hands-on," September 29, 2010, retrieved on July 12, 2021, retrieved from URL <https://www.engadget.com/2010-09-29-exclusive-vws-terminal-mode-prototype-has-a-nokia-n97-at-the-h.html#/>, 7 pages
	113.	Howard [online], "MirrorLink phone-to-dashboard screen mirroring gets rolling with 2 Sony car radios," August 15, 2012, retrieved on July 12, 2021, retrieved from URL <https://www.extremetech.com/extreme/134400-mirrorlink-phone-to-dashboard-connector-gets-rolling-with-2-sony-car-radios>, 4 pages
	114.	Hyundai [online], "BlueLink: User's Manual," May 22, 2013, retrieved on July 12, 2021, retrieved from URL <https://www.manualslib.com/manual/667719/Hyundai-Bluelink.html?page=14>, 1 page
	115.	Levere [online], "Business Travel; Passengers on Jetblue will be able to watch live satellite-television programming from their seats," July 21, 1999, retrieved on July 12, 2021, retrieved from URL <https://www.nytimes.com/1999/07/21/business/business-travel-passengers-jetblue-will-be-able-watch-live-satellite-television.html>, 3 pages
	116.	oemdtc, [online] "12M02 - Warranty Extension Covering Accessory Protocol Interface Module (APIM) Software and Hardware- 2011-2014 Ford & Lincoln," May 11, 2016, retrieved on August 19, 2020, retrieved from URL <https://ford.oemdtc.com/1745/12m02-warranty-extension-covering-accessory-protocol-interface-modlue-apim-software-and-hardware-2011-2014-ford-lincoln>,54 pages

Examiner Signature	Date Considered
/STACY WHITMORE/	02/03/2023

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

TOYOTA EXHIBIT 1002

Substitute Disclosure Form (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.	Application No.
Information Disclosure Statement by Applicant (Use several sheets if necessary)		50365-0005002	17/515,961
		Applicant: AutoConnect Holdings LLC	
		Filing Date: November 1, 2021	Group Art Unit: 2858

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	117.	Quain [online], "Parental Controls Come to the Car," April 12, 2009, retrieved on July 12, 2021, retrieved from URL <https://wheels.blogs.nytimes.com/2009/04/12/parental-controls-come-to-the-car/>, 2 pages
	118.	Raoe [online], "American Airlines and Gogo Roll Out In-Flight Personal Device Video Streaming to 767 Fleet," August 3, 2011, retrieved on July 12, 2021, retrieved from URL <https://techcrunch.com/2011/08/03/american-airlines-rolls-out-in-flight-personal-device-video-streaming-to-767-fleet/>, 2 pages
	119.	Rettie [online], "BMW's Car-to-x Communications," October 21, 2011, retrieved on July 12, 2021, retrieved from URL<https://www.roadandtrack.com/new-cars/car-technology/news/a3276/bmws-car-to-x-communications-27582/>, 3 pages
	120.	RMT [online], "The Difference Between Active and Passive GPS Tracking Devices," May 25, 2009, retrieved on July 12, 2021, retrieved from URL <https://rmtracking.com/blog/2009/05/25/the-difference-between-active-and-passive-gps-tracking-devices/>, 2 pages
	121.	Vartabedian [online], "Remote helps a car keep its cool," May 28, 2008, retrieved on July 12, 2021, retrieved from URL <https://www.latimes.com/archives/la-xpm-2008-may-28-hy-wheels28-story.html>, 6 pages

Examiner Signature	Date Considered
/STACY WHITMORE/	02/03/2023

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

TOYOTA EXHIBIT 1002

Attorney Docket No.: 50365-0005002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor	:	Christopher P. Ricci	Art Unit	:	OPAP
Application No.	:	17/515,961	Examiner	:	Central, Docket
Filed	:	November 1, 2021	Conf. No.	:	5218
Title	:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES			

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

INFORMATION DISCLOSURE STATEMENT

Please consider the documents listed on the disclosure form submitted with this statement. Copies of the documents are being submitted with this statement to the extent required under 37 C.F.R. § 1.98(a)(2).

Under 35 U.S.C. § 120, this application relies on the earlier filing date of application number 17/233,412, filed on April 16, 2021. All listed documents were submitted to and/or cited by the Office in the prior application, and so copies of those documents are not provided in this application.

This statement is being filed within three months of the filing date of the application or before the receipt of a first action on the merits.

Apply any necessary charges or credits applicable under 37 C.F.R. § 1.17(p) to deposit account 06-1050, referencing the above attorney docket number.

Please contact the undersigned if there are any questions regarding this statement.

Respectfully submitted,

Date: January 24, 2022

/Sangki Park, Reg. No. 77,261/
Sangki Park, Reg. No. 77,261

Customer Number 26191
Fish & Richardson P.C.
Telephone: +1 (612) 638-5763
Facsimile: (877) 769-7945

62877589.doc

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	1	("20160306615").did.	(US-PGPUB; USPAT)	OR	ON	ON	2021/06/24 06:57 AM
L2	53211	(G06F30/392 OR G06F30/398 OR H05K3/0005 OR G06F21/32 OR G06F30/39 OR G06F21/44 OR G06F21/31 OR B60K2370/741 OR B60K2370/73).cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2021/06/24 07:21 AM
L3	8950	vehicle AND (lock$4 AND unlock$4) SAME (driver person individual user) SAME (permission permit permitted permitting allow allowed allowing give given giving) SAME (second another)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/06/25 07:49 AM
L4	306	L3 AND L2	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/06/25 07:50 AM
L5	26	("2003/0046552").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/06/25 10:17 AM
L6	1	"20150363986".did.	(US-PGPUB; USPAT)	OR	ON	ON	2021/06/28 06:34 AM
L7	80	("2015/0363986").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/06/28 06:35 AM
L8	475	((("RICCI") near3 ("Christopher"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2021/06/28 07:37 AM
L9	45	((("AUTOCONNECT") near3 ("HOLDINGS") near3 ("LLC"))).AS,AANM.	(USPAT)	OR	ON	ON	2021/06/28 07:42 AM
L10	49	("13678673" OR "13678691" OR "13678710" OR "13678722" OR "13678726" OR "13678735" OR "13678745" OR "13678753" OR "13678762" OR "13678773" OR	(US-PGPUB; USPAT)	OR	ON	ON	2021/07/29 10:27 AM

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		"5838251" OR "6124805" OR "6542794" OR "6587755" OR "7404086" OR "8187182" OR "8402268" OR "8713704" OR "8850535" OR "8979159" OR "9324234" OR "9330567" OR "9545930").pn.					
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L13	10538	vehicle AND (lock$4 AND unlock$4) SAME (driver person individual user) SAME (permission permit permitted permitting allow allowed allowing give given giving) SAME (second another)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/02/03 07:45 AM
L14	431	L3 AND L2	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/02/03 07:45 AM
L15	39	("2003/0046552").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/03 07:45 AM
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L18	493	((("RICCI") near3 ("Christopher"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/02/03 07:45 AM
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L20	49	("13678673" OR "13678691" OR	(US-PGPUB; USPAT)	OR	ON	ON	2023/02/03 07:45 AM

		"13678710" OR "13678722" OR "13678726" OR "13678735" OR "13678745" OR "13678753" OR "13678762" OR "13678773" OR "13679204" OR "13679234" OR "13679292" OR "13679350" OR "13679358" OR "13679363" OR "13679368" OR "13679369" OR "13679400" OR "13679412" OR "13679441" OR "13679443" OR "13679459" OR "13679476" OR "13679676" OR "13679680" OR "13679815" OR "13679857" OR "13679864" OR "13679875" OR "13679878" OR "13679887" OR "20020184091" OR "20040014423" OR "20040039504" OR "20060029015" OR "20060053296" OR "20070100514" OR "20090299572" OR "20090305667" OR "20100023204" OR "20100162319" OR "20100318794" OR "20110246301" OR "20120116609" OR "20120231738" OR "20130030645" OR "20130104203" OR "20130106581" OR "20130145360" OR "20130151088" OR "20130167159" OR "20130241720" OR "20130245882" OR "20130282946" OR "20130293364" OR "20130293452" OR "20140028542" OR "20140189807" OR "20140309892" OR					

		"20140310031" OR "20140310788" OR "20160050201" OR "20160247377" OR "20170272421" OR "20180288029" OR "20200008060" OR "20200013492" OR "5838251" OR "6124805" OR "6542794" OR "6587755" OR "7404086" OR "8187182" OR "8402268" OR "8713704" OR "8850535" OR "8979159" OR "9324234" OR "9330567" OR "9545930").pn.					
L21	2	"11163931"	(USPAT)	OR	ON	ON	2023/02/03 07:47 AM
L22	2	"20130030645" "20040148526"	(US-PGPUB)	OR	ON	ON	2023/02/03 08:06 AM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N2	0	(vechicle lock$4 unlock$4 profile mobile device first second user interface computing server command (grant$4 giv$4 allow$4) control permission transmit$4 (identifier id) database wireless$4 proximity match$5 updat$4 authentication).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2021/06/28 06:21 AM

Doc Code: PET.AUTO Document Description: Petition automatically granted by EFS-Web	PTO/SB/83 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS**
Application Number	17515961
Filing Date	01-Nov-2021
First Named Inventor	Christopher Ricci
Art Unit	2851
Examiner Name	STACY WHITMORE
Attorney Docket Number	50365-0005002
Title	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

◉ Please withdraw me as attorney or agent for the above identified patent application and the practitioners of record associated with Customer Number: 26191

The reason(s) for this request are those described in 37 CFR:

11.116(a)(3)

Certifications

☒ I/We have given reasonable notice to the client, prior to the expiration of the response period, that the practitioner(s) intend to withdraw from employment

☒ I/We have delivered to the client or a duly authorized representative of the client all papers and property (including funds) to which the client is entitled

☒ I/We have notified the client of any responses that may be due and the time frame within which the client must respond

Change the correspondence address and direct all future correspondence to the first named inventor or assignee that has properly made itself of record pursuant to 37 CFR 3.71(for applications filed before September 16, 2012) or the applicant (for applications filed on or after September 16, 2012):

Name	Christopher P. Ricci
Address	80 S 8th St, Suite 900
City	Minneapolis
State	MN
Postal Code	55402
Country	US

I am authorized to sign on behalf of myself and all withdrawing practitioners.	
Signature	/Sangki Park/
Name	Sangki Park
Registration Number	77261

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Decision Date : February 9, 2023

In re Application of :

Christopher P. XmlUtil.xmlEsc(Ricci)

Application No : 17515961

Filed : 01-Nov-2021

Attorney Docket No : 50365-0005002

DECISION ON REQUEST TO WITHDRAW AS ATTORNEY/AGENTOF RECORD

This is an electronic decision on the Request to Withdraw as attorney or agent of record under 37 CFR § 1.36(b), filed February 9, 2023

The request is **APPROVED.**

The request was signed by Sangki Park (registration no. 77261) on behalf of all attorneys/agents associated with Customer Number 26191 . All attorneys/agents associated with Cusotmer Number 26191 have been withdrawn.

Since there are no remaining attorneys of record, all future communications from the Office will be directed to the first named inventor or assignee that has properly made itself of record pursuant to 37 CFR 3.71(for applications filed before September 16, 2012) or the applicant (for applications filed on or after September 16, 2012), with correspondence address:

Name	Christopher P. Ricci
Name2	
Address 1	80 S 8th St, Suite 900
Address 2	
City	Minneapolis
State	MN
Postal Code	55402
Country	US

As a reminder, requester is required to inform the first named inventor or assignee that has properly made itself of record pursuant to 37 CFR 3.71 (for applications filed before September 16, 2012) or the applicant (for applications filed on or after September 16, 2012)of the electronically processed petition.

Telephone inquiries concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

Office of Petitions

Electronic Acknowledgement Receipt

EFS ID:	47505897
Application Number:	17515961
International Application Number:	
Confirmation Number:	5218
Title of Invention:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	26191
Filer:	Sangki Park/Kristyn Waldhauser
Filer Authorized By:	Sangki Park
Attorney Docket Number:	50365-0005002
Receipt Date:	09-FEB-2023
Filing Date:	01-NOV-2021
Time Stamp:	10:34:26
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	ePetition Request Form	petition-request.pdf	43613 f70adfb1a7e7433458a16b964d03d788e1cc635b	no	2

Warnings:

Information:	
Total Files Size (in bytes):	43613

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: PA..
Document Description: Power of Attorney

PTO/AIA/82A (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.

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	17/515,961
Filing Date	November 1, 2021
First Named Inventor	Christopher P. Ricci
Title	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
Art Unit	2851
Examiner Name	Stacy Whitmore
Attorney Docket Number	50365-0005002

SIGNATURE of Applicant or Patent Practitioner

Signature	/Robert A. Conley/	Date (Optional)	2023-06-09
Name	Robert A. Conley	Registration Number	55,846
Title (if Applicant is a juristic entity)	Attorney for Applicant		
Applicant Name (if Applicant is a juristic entity)	AutoConnect Holdings 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 (07-13)
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: 192827

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):

AutoConnect Holdings 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)	6/7/2023
Name	Gregg Hendrickson		
Title	Chief Executive Officer		

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 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.

Electronic Acknowledgement Receipt

EFS ID:	48130976
Application Number:	17515961
International Application Number:	
Confirmation Number:	5218
Title of Invention:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Correspondence Address:	Christopher P. Ricci , 80 S 8th St, Suite 900, - - - Minneapolis MN 55402 US 8557509951 info@aventechlaw.com
Filer:	Robert A. Conley
Filer Authorized By:	
Attorney Docket Number:	50365-0005002
Receipt Date:	09-JUN-2023
Filing Date:	01-NOV-2021
Time Stamp:	15:58:13
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	17515961_POA.pdf	457309 c071e162bb61e6df03a9091d31f2d310e7d2f1cc	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	457309		

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	PATENT NUMBER	GROUP ART UNIT	REQUEST ID
17/515,961		2851	191415

PAIR Correspondence Address/Fee Address Change

The following fields have been changed to Customer Number 192827 on 06/23/2023 via Private PAIR in view of the certification copied below that authorized the change.

- Maintenance Fee Address

The address for Customer Number 192827 is:
192827
Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

An attorney or Agent of Record registered to practice before the Patent and Trademark Office who has been given power of attorney in this application

Signature:	/Robert A. Conley/
Name:	Robert A. Conley
Registration Number:	55846

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
17/515,961	11/01/2021	Christopher P. Ricci	50365-0005002

CONFIRMATION NO. 5218

192827
Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

POA ACCEPTANCE LETTER

OC000000058615111

Date Mailed: 06/26/2023

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/09/2023.

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**.

/tlulu/

Doc Code: PET.OP
Document Description: Petition for Review by the Office of Petitions

PTO/SB/445 (09-22)
Approved for use through 05/31/2024. 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.

PETITION TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 119(e) (37 CFR 1.78(c)) AND/OR TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 120, 121, 365(c), or 386(c) (37 CFR 1.78(e)) FOR THE BENEFIT OF A PRIOR-FILED APPLICATION

First named inventor: Christopher P. Ricci

Application No.: 17/515,961 Art Unit: 2851

Filed: November 1, 2021 Examiner: Stacy Whitmore

Title: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Attention: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
FAX 571-273-8300

When filing via USPTO's patent electronic filing systems, use Doc Code PET.PCT (Petition for review by the PCT Legal Office) for applications filed under 35 U.S.C. 371 and/or if the reference to the prior-filed application(s) includes an international application or an international design application. In all other instances, use Doc Code PET.OP (Petition for review by the Office of Petitions).

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at 571-272-3282.

APPLICANT HEREBY PETITIONS FOR ACCEPTANCE OF AN UNINTENTIONALLY DELAYED BENEFIT CLAIM TO A PRIOR-FILED APPLICATION UNDER 37 CFR 1.78(c) AND/OR 37 CFR 1.78(e).

NOTE: For a petition under 37 CFR 1.78(e), the above-identified application must have been filed during the pendency of the prior application or during the pendency of an intermediate application similarly entitled to the benefit of the filing date of the prior application. For a petition under 37 CFR 1.78(c), the above-identified application must have been filed within 12 months of the filing date of the provisional application or be entitled to claim the benefit under 35 U.S.C. 120, 121, or 365(c) of an application that was filed within 12 months of the filing date of the provisional application, except as provided in 37 CFR 1.78(b).

NOTE: A grantable petition requires the following items:

(1) the reference required by 35 U.S.C. 119(e) and 37 CFR 1.78(a)(3) to the prior-filed provisional application and/or the reference required by 35 U.S.C. 120 and 37 CFR 1.78(d)(2) to the prior-filed nonprovisional application, international application designating the United States, or international design application designating the United States, unless previously submitted;
(2) the petition fee set forth in 37 CFR 1.17(m); and
(3) a statement that the entire delay between the date the benefit claim was due under 37 CFR 1.78(d)(3) and/or 37 CFR 1.78(a)(4) and the date the benefit claim was filed was unintentional. The Director may require additional information where there is a question as to whether the delay was unintentional.

1. The required reference to the prior-filed application:

☑ The above-identified application was filed on or after September 16, 2012, and the reference is either set forth in the attached corrected application data sheet (ADS) or in a corrected ADS that was previously submitted.

☐ The above-identified application was filed prior to September 16, 2012, and the reference is either (1) set forth in a supplemental ADS, (2) set forth in the attached amendment to the first sentence(s) of the specification, or (3) set forth in a supplemental ADS or amendment to the first sentence(s) of the specification that was previously submitted. See 37 CFR 1.78(h).

Reminder: Any ADS which corrects or updates the information of record must comply with 37 CFR 1.76(c)(2) (or for applications filed prior to September 16, 2012, pre-AIA 37 CFR 1.76(c)).

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0032. Public burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. 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.

PETITION TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 119(e) (37 CFR 1.78(c)) AND/OR TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 120, 121, 365(c), or 386(c) (37 CFR 1.78(e)) FOR THE BENEFIT OF A PRIOR-FILED APPLICATION

2. Petition fee (37 CFR 1.17(m)):

☐ Other than a small or micro entity (undiscounted) fee $ _____ (Fee Code 1454).

☑ Small entity fee $ 840.00 (Fee Code 2454). Applicant asserts small entity status. See 37 CFR 1.27.

☐ Micro entity fee $ _____ (Fee Code 3454). Applicant has established or is establishing micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

3. Statement: The entire delay between the date the benefit claim was due under 37 CFR 1.78(d)(3) and/or 37 CFR 1.78(a)(4) and the date the benefit claim was filed was unintentional.

Petitioner is reminded that a change in circumstance or a delay resulting from a deliberately chosen course of action does not become an "unintentional" delay because, for example:

- the applicant does not consider any patent to be of sufficient value to justify the financial expense of obtaining the patent; or
- the applicant remains interested in eventually obtaining a patent, but simply seeks to defer patent fees and patent prosecution expenses.

NOTE: Where the petition under 37 CFR 1.78(c) and/or 37 CFR 1.78(e) is filed more than two years after the date the priority or benefit claim was due, the United States Patent and Trademark Office requires an additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional. This requirement is in addition to the requirement to provide a statement that the entire delay was unintentional. See *Clarification of the Practice for Requiring Additional Information in Petitions Filed in Patent Applications and Patents Based on Unintentional Delay*, 85 FR 12222 (March 2, 2020). See MPEP 711.03(c)(II)(C)-(F) for additional guidance on the information required to establish that the entire delay was unintentional.

☐ Because this petition under 37 CFR 1.78(c) and/or 37 CFR 1.78(e) is being filed more than two years after the date the priority or benefit claim was due, additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional is enclosed herewith.

PETITION TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 119(e) (37 CFR 1.78(c)) AND/OR TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 120, 121, 365(c), or 386(c) (37 CFR 1.78(e)) FOR THE BENEFIT OF A PRIOR-FILED APPLICATION

WARNING:

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

/Robert A. Conley/
Signature*

2023-07-18
Date

Robert A. Conley
Typed or Printed Name

55846
Registration Number, if applicable

80 S. 8th St., Suite 900
Address

312-625-7378
Telephone Number

Minneapolis, MN 55402
Address

* This petition must be signed in accordance with 37 CFR 1.33. Please see 37 CFR 1.4(d) for the signature requirements. Submit multiple forms if more than one signature is required.

Enclosures:

- [x] Application Data Sheet (see instructions starting on page 4)
- [x] Fee (along with supporting documentation, if required)
- [ ] Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- [ ] Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- [x] Transmitted by electronic filing (EFS-Web or Patent Center) or by facsimile on the date shown below to the United States Patent and Trademark Office at 571-273-8300.

2023-07-18
Date

/Robert A. Conley/
Signature

Robert A. Conley
Typed or printed name of person signing certificate

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.

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. 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	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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.
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☐ 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
	Christopher	P.	Ricci	

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

City	Saratoga	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	20650 4th Street, Unit 2		
Address 2			
City	Saratoga	State/Province	CA
Postal Code	95070	Country i	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).

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

Customer Number	~~26191~~ 192827		
Email Address	~~apsi@fr.com~~ USPTO@avantechlaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES		
Attorney Docket Number	50365-0005002	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	39	Suggested Figure for Publication (if any)	

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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	~~26161~~ 192827		

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~~
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~~————————~~	~~Continuation of~~	~~17233412~~	~~2021-04-16~~

PTO/AIA/14 (01-22)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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17515961	Continuation of	17233412	2021-04-16	11163931	2021-11-02

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16247128	Continuation of	15288244	2016-10-07

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Abandoned		Remove
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61904205	2013-11-14
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252863	Claims benefit of provisional	61924572	2014-01-07
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15288244	Continuation of	14252865	2014-04-15

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	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61811981	2013-04-15

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	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61870698	2013-08-27
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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14252871	Claims benefit of provisional	61811981	2013-04-15

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
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14252876	Claims benefit of provisional	61811981	2013-04-15

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252876	Claims benefit of provisional	61926749	2014-01-13
~~Prior Application Status~~	~~Abandoned~~		~~Remove~~
~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~16247128~~	~~Continuation of~~	~~15288244~~	~~2016-10-07~~
~~Prior Application Status~~	~~Abandoned~~		~~Remove~~
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~~15288244~~	~~Continuation of~~	~~14252863~~	~~2014-04-15~~
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~~14252863~~	~~Claims benefit of provisional~~	~~61811031~~	~~2013-04-15~~

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

~~Prior Application Status~~	~~Expired~~		~~Remove~~
~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~14252863~~	~~Claims benefit of provisional~~	~~61865954~~	~~2013-08-14~~
~~Prior Application Status~~	~~Expired~~		~~Remove~~
~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~14252863~~	~~Claims benefit of provisional~~	~~61870698~~	~~2013-08-27~~
~~Prior Application Status~~	~~Expired~~		~~Remove~~
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~~14252863~~	~~Claims benefit of provisional~~	~~61891217~~	~~2013-10-15~~
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~~14252863~~	~~Claims benefit of provisional~~	~~61904205~~	~~2013-11-14~~
~~Prior Application Status~~	~~Expired~~		~~Remove~~
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~~14252863~~	~~Claims benefit of provisional~~	~~61924572~~	~~2014-01-07~~
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~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~14252863~~	~~Claims benefit of provisional~~	~~61926749~~	~~2014-01-13~~
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~~14252865~~	~~Claims benefit of provisional~~	~~61865954~~	~~2013-08-14~~

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

~~Prior Application Status~~	~~Expired~~		~~Remove~~
~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~14252865~~	~~Claims benefit of provisional~~	~~61870698~~	~~2013-08-27~~
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~~14252865~~	~~Claims benefit of provisional~~	~~61904205~~	~~2013-11-14~~
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~~14252865~~	~~Claims benefit of provisional~~	~~61924572~~	~~2014-01-07~~
~~Prior Application Status~~	~~Expired~~		~~Remove~~
~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~14252865~~	~~Claims benefit of provisional~~	~~61926749~~	~~2014-01-13~~
~~Prior Application Status~~	~~Abandoned~~		~~Remove~~
~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
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~~14252863~~	~~Claims benefit of provisional~~	~~61841981~~	~~2013-04-15~~
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~~14252863~~	~~Claims benefit of provisional~~	~~61865954~~	~~2013-08-14~~
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~~14252863~~	~~Claims benefit of provisional~~	~~61870698~~	~~2013-08-27~~

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61891217	2013-10-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61904205	2013-11-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61924572	2014-01-07
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252868	Claims benefit of provisional	61926749	2014-01-13
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15288244	Continuation of	15099413	2016-04-14
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
15099413	Continuation of	14252871	2014-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61811981	2013-04-15
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
61811981	Claims benefit of provisional	61865954	2013-08-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14252871	Claims benefit of provisional	61878698	2013-08-27

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

~~Prior Application Status~~	~~Expired~~		~~Remove~~
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~~14252871~~	~~Claims benefit of provisional~~	~~61904205~~	~~2013-11-14~~
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~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
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~~14252871~~	~~Claims benefit of provisional~~	~~61926749~~	~~2014-01-13~~
~~Prior Application Status~~	~~Patented~~		~~Remove~~

~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing Date (YYYY-MM-DD)~~	~~Patent Number~~	~~Issue Date (YYYY-MM-DD)~~
~~15288244~~	~~Continuation of~~	~~14831696~~	~~2015-08-20~~	~~9545930~~	~~2017-01-17~~

~~Prior Application Status~~	~~Abandoned~~		~~Remove~~
~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~14831696~~	~~Continuation of~~	~~14252876~~	~~2014-04-15~~
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~~14252876~~	~~Claims benefit of provisional~~	~~61811981~~	~~2013-04-15~~
~~Prior Application Status~~	~~Expired~~		~~Remove~~
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~~14252876~~	~~Claims benefit of provisional~~	~~61865954~~	~~2013-08-14~~
~~Prior Application Status~~	~~Expired~~		~~Remove~~
~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~14252876~~	~~Claims benefit of provisional~~	~~61870698~~	~~2013-08-27~~

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

~~Prior Application Status~~	~~Expired~~		~~Remove~~
~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~14252876~~	~~Claims benefit of provisional~~	~~61891217~~	~~2013-10-15~~
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~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~14252876~~	~~Claims benefit of provisional~~	~~61904205~~	~~2013-11-14~~
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~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~14252876~~	~~Claims benefit of provisional~~	~~61924572~~	~~2014-01-07~~
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~~14252876~~	~~Claims benefit of provisional~~	~~61926749~~	~~2014-01-13~~
~~Prior Application Status~~	~~Abandoned~~		~~Remove~~
~~Application Number~~	~~Continuity Type~~	~~Prior Application Number~~	~~Filing or 371(c) Date (YYYY-MM-DD)~~
~~16247128~~	~~Continuation of~~	~~15288244~~	~~2016-10-07~~

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

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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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

☐ 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 (01-22)
Approved for use through 05/31/2024. 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	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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

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	AutoConnect Holdings LLC

Mailing Address Information For Applicant:

Address 1	21 Wedgwood Road		
Address 2			
City	Wellesley	**State/Province**	MA
Country	US	Postal Code	02481
Phone Number		Fax Number	
Email Address			

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

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 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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.

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.

Signature:

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	~~/Sangki Park/~~ /Robert A. Conley/			Date (YYYY-MM-DD)	~~2021-11-01~~ 2023-07-18
First Name	~~Sangki~~ Robert A.	Last Name	~~Park~~ Conley	Registration Number	~~77261~~ 55846

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	50365-0005002
	Application Number	17515961
Title of Invention	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Christopher P. Ricci Application No.: 17/515,961 Filed: November 1, 2021 Title: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES Group Art Unit: 2851 Examiner: Stacy Whitmore	I hereby certify that this paper is being electronically deposited with the United States Patent and Trademark Office, on this date: **July 18, 2023** **/Robert A. Conley/** Robert A. Conley

ATTN: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL IN SUPPORT OF PETITION TO ACCEPT UNINTENTIONALLY DELAYED PRIORITY BENEFIT CLAIM UNDER RULE 1.78

Commissioner:

In connection with pending U.S. Patent Application No. 17/515,961, the Applicant hereby submits the following items:

- Petition to Accept Unintentionally Delayed Priority Benefit Claim Under Rule 1.78 ("Petition");
- Corrected Application Data Sheet in support of the Petition; and
- Fee of $840.00 (small entity) for submission of the Petition.

The Commissioner is hereby authorized to charge any deficiency in the submitted payment or any additional fees which may be required to Deposit Account No. 60-5022. Please

refund any overpayment to Deposit Account No. 60-5022, or alternatively to the address associated with the USPTO customer number identified below.

Respectfully submitted,

AVANTECH LAW, LLP
USPTO Customer No. 192827
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Dated: July 18, 2023

/Robert A. Conley/
Robert A. Conley
Registration No. 55,846
Attorney for Applicant

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Page 272 of 472

Electronic Patent Application Fee Transmittal

Application Number:	17515961
Filing Date:	01-Nov-2021
Title of Invention:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Filer:	Robert A. Conley
Attorney Docket Number:	50365-0005002

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:				
Miscellaneous-Filing:				
Petition:				
PET. DELAY SUB OR RESTORE PRIORITY-CLAIM	2454	1	840	840
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**840**

Electronic Acknowledgement Receipt

EFS ID:	48313035
Application Number:	17515961
International Application Number:	
Confirmation Number:	5218
Title of Invention:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	192827
Filer:	Robert A. Conley
Filer Authorized By:	
Attorney Docket Number:	50365-0005002
Receipt Date:	18-JUL-2023
Filing Date:	01-NOV-2021
Time Stamp:	14:07:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$840
RAM confirmation Number	E20237HE08008425
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	Petition for review by the Office of Petitions	17515961_Petition_Priority.pdf	278078 953b43793267ab077d683bd08bc1628bdd08f919	no	4
Warnings:					
Information:					
2	Application Data Sheet	17515961_Corrected_ADS.pdf	951202 a71689e4189cb8c066b5d0c77e5dbff561988ba6	no	23
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Transmittal Letter	17515961_Transmittal_Petition.pdf	125704 667e1d18a572176f91982d1ea345dc9f381102b4	no	2
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	38060 8e97bf3a9993e9b4381a3f7b110eaaca9aebf87c	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1393044		

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 17/515,961	Filing Date 11/01/2021	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

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

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	07/20/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $40 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $192 =	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".	/TINA M. BELL/
*** 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/22 (12-22)
Approved for use through 05/31/2024. 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 displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)

Docket Number (Optional): 50365-0005002

Application Number: 17/515,961

Filed: November 1, 2021

For: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Art Unit: 2851

Examiner: Stacy Whitmore

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	Micro Entity Fee	
☐ One month (37 CFR 1.17(a)(1))	$220	$88	$44	$
☐ Two months (37 CFR 1.17(a)(2))	$640	$256	$128	$
☑ Three months (37 CFR 1.17(a)(3))	$1,480	$592	$296	$ 592
☐ Four months (37 CFR 1.17(a)(4))	$2,320	$928	$464	$
☐ Five months (37 CFR 1.17(a)(5))	$3,160	$1,264	$632	$

☑ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☑ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 60-5022.

☑ Payment made via EFS-Web.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant/inventor.

☐ assignee of record of the entire interest. See 37 CFR 3.71. 37 CFR 3.73(b) statement is enclosed (Form PTO/SB/96).

☑ attorney or agent of record. Registration number 55846.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Robert A. Conley/ — Signature

2023-07-20 — Date

Robert A. Conley — Typed or printed name

312-625-7378 — Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☑ * Total of 1 forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0031. Public burden for this form is estimated to average 6 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **If filing this completed form by mail, 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.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Additional Uses

Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) 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, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.

Electronic Patent Application Fee Transmittal

Application Number:	17515961
Filing Date:	01-Nov-2021
Title of Invention:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Filer:	Robert A. Conley
Attorney Docket Number:	50365-0005002

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:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 3 months with $0 paid	2253	1	592	592
Miscellaneous:				
			Total in USD ($)	**592**

Electronic Acknowledgement Receipt

EFS ID:	48328248
Application Number:	17515961
International Application Number:	
Confirmation Number:	5218
Title of Invention:	ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	192827
Filer:	Robert A. Conley
Filer Authorized By:	
Attorney Docket Number:	50365-0005002
Receipt Date:	20-JUL-2023
Filing Date:	01-NOV-2021
Time Stamp:	19:02:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$592
RAM confirmation Number	E20237JJ05108259
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	Amendment/Request for Reconsideration-After Non-Final Rejection	17515961_Response_NFOA_dtd_2023-02-08.pdf	174662 b6604a677fe6df7228c91ff3375b595405dcbc4a	no	19
Warnings:					
Information:					
2	Extension of Time	17515961_Petition_EOT.pdf	465924 373a213d295a269fb9f883c85ff1ec90cd88f56a	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	38120 9ab8fcabce5b0645de58730b6ac165f8d526f8d8	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	678706		

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

First Named Inventor: Christopher P. Ricci	I hereby certify that this paper is being electronically deposited with the United States Patent and Trademark Office, on this date:
Application No.: 17/515,961	
Filed: November 1, 2021	**July 20, 2023**
Title: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	**/Robert A. Conley/**
Group Art Unit: 2851	Robert A. Conley
Examiner: Stacy Whitmore	

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

RESPONSE TO THE OFFICE ACTION DATED FEBRUARY 8, 2023

Dear Commissioner:

In response to the Office Action dated February 8, 2023, please enter the following amendments, and consider the accompanying remarks.

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims begin on page 7 of this paper.

Remarks begin on page 13 of this paper.

Amendments to the Specification:

Please amend paragraphs [0001] – [0003] of the specification as follows:

[0001] The present application is a continuation of and claims priority to U.S. Patent Application No. 17/233,412, filed on April 16, 2021, entitled "Access and Portability of User Profiles Stored as Templates", which is a continuation of and claims priority to U.S. Patent Application No. 16,247,128, filed on January 14, 2019, entitled "Access and Portability of User Profiles Stored as Templates", which is a continuation of and claims priority to U.S. Patent Application No. 15/288, 244, filed on October 7, 2016, entitled "Access and Portability of User Profiles Stored as Templates", which is a continuation of and claims priority to each of U.S. Patent Application ~~Serial~~ Nos.: (1) 14/252,863, filed on April 15, 2014, ~~of the same title~~ entitled "Access and Portability of User Profiles Stored as Templates"; (2) 14/252,865, filed on April 15, 2014, entitled "User Profile Exchange via Vehicle Supported Communications Protocol"; (3) 14/252,868, filed on April 15, 2014, entitled "Transfer of User Profile Data via Vehicle Agency Control"; (4) 15/099,413, filed on April 14, 2016, entitled "Guest Vehicle User Reporting," which is a continuation of U.S. Patent Application ~~Serial~~ No. 14/252,871, filed on April 15, 2014, ~~of the same title~~ entitled "Guest Vehicle User Reporting"; and (5) 14/831,696, filed on August 20, 2015, entitled "Parental Control over Vehicle Features and Child Alert System," which is a continuation of U.S. Patent Application ~~Serial~~ No. 14/252,876, filed on April 15, 2014, ~~of the same title~~ entitled "Parental Control over Vehicle Features and Child Alert Systems". Each of the foregoing applications claims the benefits of and priority, under 35 U.S.C. § 119(e), to U.S. Provisional Patent Application ~~Serial~~ Nos.: 61/811,981, filed on April 15, 2013, entitled "Functional Specification for a Next Generation Automobile"; 61/865,954,

filed on August 14, 2013, entitled "Gesture Control of Vehicle Features"; 61/870,698, filed on August 27, 2013, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; 61/891,217, filed on October 15, 2013, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; 61/904,205, filed on November 14, 2013, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; 61/924,572, filed on January 7, 2014, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; and 61/926,749, filed on January 13, 2014, entitled "Method and System for Providing Infotainment in a Vehicle." The entire disclosures of the applications listed above are hereby incorporated by reference, in their entirety, for all that they teach and for all purposes.

[0002] This application is also related to U.S. Patent Application Nos.: 13/420,236, filed on March 14, 2012, entitled, "Configurable Vehicle Console"; 13/420,240, filed on March 14, 2012, entitled "Removable, Configurable Vehicle Console"; 13/462,593, filed on May 2, 2012, entitled "Configurable Dash Display"; 13/462,596, filed on May 2, 2012, entitled "Configurable Heads-Up Dash Display"; 13/679,459, filed on November 16, 2012, entitled "Vehicle Comprising Multi-Operating System" ~~(Attorney Docket No. 6583-228)~~; 13/679,234, filed on November 16, 2012, entitled "Gesture Recognition for On-Board Display" ~~(Attorney Docket No. 6583-229)~~; 13/679,412, filed on November 16, 2012, entitled "Vehicle Application Store for Console" ~~(Attorney Docket No. 6583-230)~~; 13/679,857, filed on November 16, 2012, entitled "Sharing Applications/Media Between Car and Phone (Hydroid)" ~~(Attorney Docket No. 6583-231)~~; 13/679,878, filed on November 16, 2012, entitled "In-Cloud Connection for Car Multimedia" ~~(Attorney Docket No. 6583-232)~~; 13/679,875, filed on November 16, 2012, entitled "Music Streaming" ~~(Attorney Docket No. 6583-233)~~; 13/679,676, filed on November 16, 2012, entitled "Control of Device Features Based on Vehicle State" ~~(Attorney Docket No. 6583-234)~~;

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13/678,673, filed on November 16, 2012, entitled "Insurance Tracking" ~~(Attorney Docket No. 6583-235)~~; 13/678,691, filed on November 16, 2012, entitled "Law Breaking/Behavior Sensor" ~~(Attorney Docket No. 6583-236)~~; 13/678,699, filed on November. 16, 2012, entitled "Etiquette Suggestion" ~~(Attorney Docket No. 6583-237)~~; 13/678,710, filed on November 16, 2012, entitled "Parking Space Finder Based on Parking Meter Data" ~~(Attorney Docket No. 6583-238)~~; 13/678,722, filed on November 16, 2012, entitled "Parking Meter Expired Alert" ~~(Attorney Docket No. 6583-239)~~; 13/678,726, filed on November 16, 2012, entitled "Object Sensing (Pedestrian Avoidance/Accident Avoidance)" ~~(Attorney Docket No. 6583-240)~~; 13/678,735, filed on November 16, 2012, entitled "Proximity Warning Relative to Other Cars" ~~(Attorney Docket No. 6583-241)~~; 13/678,745, filed on November 16, 2012, entitled "Street Side Sensors" ~~(Attorney Docket No. 6583-242)~~; 13/678,753, filed on November 16, 2012, entitled "Car Location" ~~(Attorney Docket No. 6583-243)~~; 13/679,441, filed on November 16, 2012, entitled "Universal Bus in the Car" ~~(Attorney Docket No. 6583-244)~~; 13/679,864, filed on November 16, 2012, entitled "Mobile Hot Spot/Router/Application Share Site or Network" ~~(Attorney Docket No. 6583-245)~~; 13/679,815, filed on November 16, 2012, entitled "Universal Console Chassis for the Car" ~~(Attorney Docket No. 6583-246)~~; 13/679,476, filed on November 16, 2012, entitled "Vehicle Middleware" ~~(Attorney Docket No. 6583-247)~~; 13/679,306, filed on November 16, 2012, entitled "Method and System for Vehicle Data Collection Regarding Traffic" ~~(Attorney Docket No. 6583-248)~~; 13/679,369, filed on November 16, 2012, entitled "Method and System for Vehicle Data Collection" ~~(Attorney Docket No. 6583-249)~~; 13/679,680, filed on November 16, 2012, entitled "Communications Based on Vehicle Diagnostics and Indications" ~~(Attorney Docket No. 6583-250)~~; 13/679,443, filed on November 16, 2012, entitled "Method and System for Maintaining and Reporting Vehicle Occupant Information" ~~(Attorney Docket No. 6583-251)~~;

13/678,762, filed on November 16, 2012, entitled "Behavioral Tracking and Vehicle Applications" ~~(Attorney Docket No. 6583-252)~~; 13/679,292, filed November 16, 2012, entitled "Branding of Electrically Propelled Vehicles Via the Generation of Specific Operating Output" ~~(Attorney Docket No. 6583-258)~~; 13/679,400, filed November 16, 2012, entitled "Vehicle Climate Control" ~~(Attorney Docket No. 6583-313)~~; 13/840,240, filed on March 15, 2013, entitled "Improvements to Controller Area Network Bus" ~~(Attorney Docket No. 6583-314)~~; 13/678,773, filed on November 16, 2012, entitled "Location Information Exchange Between Vehicle and Device" ~~(Attorney Docket No. 6583-315)~~; 13/679,887, filed on November 16, 2012, entitled "In Car Communication Between Devices" ~~(Attorney Docket No. 6583-316)~~; 13/679,842, filed on November 16, 2012, entitled "Configurable Hardware Unit for Car Systems" ~~(Attorney Docket No. 6583-317)~~; 13/679,204, filed on November 16, 2012, entitled "Feature Recognition for Configuring a Vehicle Console and Associated Devices" ~~(Attorney Docket No. 6583-318)~~; 13/679,350, filed on November 16, 2012, entitled "Configurable Vehicle Console" ~~(Attorney Docket No. 6583-412)~~; 13/679,358, filed on November 16, 2012, entitled "Configurable Dash Display" ~~(Attorney Docket No. 6583-413)~~; 13/679,363, filed on November 16, 2012, entitled "Configurable Heads-Up Dash Display" ~~(Attorney Docket No. 6583-414)~~; and 13/679,368, filed on November 16, 2012, entitled "Removable, Configurable Vehicle Console" ~~(Attorney Docket No. 6583-415)~~. The entire disclosures of the applications listed above are hereby incorporated by reference, in their entirety, for all that they teach and for all purposes.

[0003] This application is also related to PCT Patent Application Nos.: [[PCT/US14/_____]] PCT/US14/34092, filed on April 15, 2014, entitled, "Building Profiles Associated with Vehicle Users" ~~(Attorney Docket No. 6583-543-PCT)~~; [[PCT/US14/_____]] PCT/US14/34099, filed on April 15, 2014, entitled "Access and Portability of User Profiles Stored as Templates" ~~(Attorney~~

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~~Docket No. 6583-544-PCT)~~; [[PCT/US14/_____]] PCT/US14/34087, filed on April 15, 2014, entitled "User Interface and Virtual Personality Presentation Based on User Profile" ~~(Attorney Docket No. 6583-547-PCT)~~; [[PCT/US14/_____]] PCT/US14/34088, filed on April 15, 2014, entitled "Creating Targeted Advertising Profiles Based on User Behavior" ~~(Attorney Docket No. 6583-549-PCT)~~; [[PCT/US14/_____]] PCT/US14/34232, filed on April 15, 2014, entitled "Behavior Modification via Altered Map Routes Based on User Profile Information" ~~(Attorney Docket No. 6583-550-PCT)~~; [[PCT/US14/_____]] PCT/US14/34098, filed on April 15, 2014, entitled "Vehicle Location-Based Home Automation Triggers" ~~(Attorney Docket No. 6583-556-PCT)~~; [[PCT/US14/_____]] PCT/US14/34108, filed on April 15, 2014, entitled "Vehicle Initiated Communications with Third Parties via Virtual Personalities" ~~(Attorney Docket No. 6583-559-PCT)~~; [[PCT/US14/_____]] PCT/US14/34101, filed on April 15, 2014, entitled "Vehicle Intruder Alert Detection and Indication" ~~(Attorney Docket No. 6583-562-PCT)~~; [[PCT/US14/_____]] PCT/US14/34103, filed on April 15, 2014, entitled "Driver Facts Behavior Information Storage System" ~~(Attorney Docket No. 6583-565-PCT)~~; [[PCT/US14/_____]] PCT/US14/34114, filed on April 15, 2014, entitled "Synchronization Between Vehicle and User Device Calendar" ~~(Attorney Docket No. 6583-567-PCT)~~; [[PCT/US14/_____]] PCT/US14/34125, filed on April 15, 2014, entitled "User Gesture Control of Vehicle Features" ~~(Attorney Docket No. 6583-569-PCT)~~; [[PCT/US14/_____]] PCT/US14/34254, filed on April 15, 2014, entitled "Central Network for the Automated Control of Vehicular Traffic" ~~(Attorney Docket No. 6583-574-PCT)~~; and [[PCT/US14/_____]] PCT/US14/34194, filed on April 15, 2014, entitled "Vehicle-Based Multimode Discovery" ~~(Attorney Docket No. 6583-585-PCT)~~. The entire disclosures of the applications listed above are hereby incorporated by reference, in their entirety, for all that they teach and for all purposes.

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-20. (Canceled)

Please add the following new claims:

21. (New) A system, comprising:

memory;

machine-readable instructions; and

one or more processors to execute the machine-readable instructions to:

receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle;

determine, by performing at least one of a verification process or an authentication process in response to the request, whether the request is authorized to access the user profile;

in response to determining that the request is authorized to access the user profile, determine one or more requested modifications to at least one of the one or more preferences; and

in response to the one or more requested modifications, create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

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22. (New) The system of claim 21, wherein the one or more processors are to execute the machine-readable instructions to transmit the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to the transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle.

23. (New) The system of claim 22, wherein the one or more processors are to execute the machine-readable instructions to determine whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile.

24. (New) The system of claim 23, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to overwrite conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences.

25. (New) The system of claim 23, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to perform a reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences.

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26. (New) The system of claim 21, wherein the one or more processors are to perform both the verification process and the authentication process, and wherein the one or more processors are to determine that the request is authorized to access the user profile in response to successfully verifying the request via the verification process and successfully authenticating the request via the authentication process.

27. (New) The system of claim 21, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device.

28. (New) The system of claim 21, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device.

29. (New) The system of claim 21, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template.

30. (New) The system of claim 29, wherein the template is a global standard template that is common among at least two vehicle manufacturers.

31. (New) A method, comprising:

receiving a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle;

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determining, by performing at least one of a verification process or an authentication process via one or more processors in response to the request, whether the request is authorized to access the user profile;

in response to determining that the request is authorized to access the user profile, determining, via the one or more processors, one or more requested modifications to at least one of the one or more preferences; and

in response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

32. (New) The method of claim 31, further comprising transmitting the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to the transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle.

33. (New) The method of claim 32, further comprising determining whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile.

34. (New) The method of claim 33, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the method

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further comprises overwriting conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences.

35. (New) The method of claim 33, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the method further comprises performing a reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences.

36. (New) The method of claim 31, further comprising performing both the verification process and the authentication process, wherein determining that the request is authorized to access the user profile includes successfully verifying the request via the verification process and successfully authenticating the request via the authentication process.

37. (New) The method of claim 31, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device.

38. (New) The method of claim 31, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device.

39. (New) The method of claim 31, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template.

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40. (New) The method of claim 39, wherein the template is a global standard template that is common among at least two vehicle manufacturers.

No new matter has been added.

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Remarks

The Applicant has considered the Office Action dated February 8, 2023 ("the Office Action"), and the references cited therein. Paragraphs [0001] – [0003] of the specification have been amended. Claims 1-20 have been canceled without prejudice to their further prosecution. New claims 21-40 have been added. No new matter has been added. All pending claims are in condition for allowance and favorable reconsideration is respectfully requested.

The Rejections under 35 U.S.C. §§ 102 and 103

Claims 1-3, 5, 7-13, 15, and 17-20 stand rejected under 35 U.S.C. § 102 as allegedly anticipated by Divine et al., U.S Patent Application Publication No. 2013/0030645 ("Divine"). Claims 4, 6, 14, and 16 stand rejected under 35 U.S.C. § 103 as allegedly unpatentable over Divine in view of Sands et al., U.S. Patent Application Publication No. 2004/0148526 ("Sands"). The Applicant traverses the art-based rejections in their entirety.

In responding to the art-based rejections, the Applicant here only justifies the patentability of the independent claims. As the Examiner will appreciate, should the independent claims be patentable over the prior art, narrower dependent claims would also necessarily be patentable. Accordingly, the Applicant does not separately discuss the patentability of the dependent claims, although it reserves the right to do so at a later time if necessary.

Moreover, the Applicant, in justifying patentability, does not necessarily respond to every point made in the Office Action, as the Office Action's findings or conclusions may be irrelevant given the Applicant's justifications. The Applicant therefore should not be understood to agree with the Office Action's findings or conclusions merely because the Applicant chooses not to respond to such findings or conclusions.

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Independent Claim 1

Independent claim 1 and the claims depending therefrom have been canceled by way of the amendments to the claims submitted herewith. It follows that the art-based rejections of those claims are moot. Withdrawal of the art-based rejections of independent claim 1 and the claims depending therefrom is requested.

Independent Claim 11

Independent claim 11 and the claims depending therefrom have been canceled by way of the amendments to the claims submitted herewith. It follows that the art-based rejections of those claims are moot. Withdrawal of the art-based rejections of independent claim 11 and the claims depending therefrom is requested.

Independent Claim 21

New independent claim 21 is allowable. Claim 21 sets forth a system comprising memory, machine-readable instructions, and one or more processors. Claim 21 sets forth that the one or more processors are to execute the machine-readable instructions to receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle. Claim 21 further sets forth that the one or more processors are to execute the machine-readable instructions to determine, by performing at least one of a verification process or an authentication process in response to the request, whether the request is authorized to access the user profile. Claim 21 further sets forth that the one or more processors are to execute the machine-readable instructions, in response to determining that the request is authorized to access the user profile, to determine one or more requested modifications to at least one of the one or more preferences. Claim 21 further sets forth that the one or more processors are to execute the machine-readable instructions, in response to the one

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or more requested modifications, to create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications. Divine, whether taken alone or in combination with Sands, is missing at least the elements of claim 21 emphasized above.

Divine describes a vehicle infotainment system including an automated control algorithm for recommending and administering content delivery to occupants of the vehicle. (Divine, ¶ [0001]). The vehicle infotainment system includes an occupant detector configured to receive characteristic data for occupants of the vehicle and generate a profile for each occupant of the vehicle. (*Id.*, at ¶ [0004]). The vehicle infotainment system further includes a recommendation engine that analyzes the profiles of the vehicle occupants, and a content delivery engine that delivers content to one or more of the vehicle occupants in accordance with the analysis of the profiles of the vehicle occupants. (*Id.*).

Divine further describes that a vehicle occupant may directly request that the control algorithm of the vehicle infotainment system take certain content into account with high priority. (*Id.*, at [0041]). Divine fails, however, to teach or suggest that the system receives a request to access the occupant profile stored by the vehicle infotainment system. It follows that Divine fails to teach or suggest one or more processors to execute machine-readable instructions to receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle, as set forth in claim 21.

Even if Divine were to teach or suggest that the system receives a request to access the occupant profile stored by the vehicle infotainment system (to be clear, Divine provides no such teaching or suggestion), Divine nonetheless fails to teach or suggest, in response to the system successfully authorizing a request to access the occupant profile, determining one or more

requested modifications to at least one of the one or more preferences included within the occupant profile. It follows that Divine fails to teach or suggest one or more processors to execute machine-readable instructions, in response to determining that the request is authorized to access the user profile, to determine one or more requested modifications to at least one of the one or more preferences, as set forth in claim 21. It also follows that Divine fails to teach or suggest one or more processors to execute machine-readable instructions, in response to the one or more requested modifications, to create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications, as set forth in claim 21.

Sands fails to cure the above-described deficiencies of Divine relative to the subject matter of claim 21. The Office Action does not suggest otherwise. In this regard, the Office Action relies on Sands solely for its teachings pertaining to a biometric authentication process that may involve the use of encrypted biometric information. (Office Action, pp. 5-6). Sands fails to teach or suggest one or more processors to execute machine-readable instructions to receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle, as set forth in claim 21. Sands also fails to teach or suggest one or more processors to execute machine-readable instructions, in response to determining that the request is authorized to access the user profile, to determine one or more requested modifications to at least one of the one or more preferences, as set forth in claim 21. Sands also fails to teach or suggest one or more processors to execute machine-readable instructions, in response to the one or more requested modifications, to create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications, as set forth in claim 21.

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Divine and Sands are each missing at least the elements of claim 21 emphasized above. It follows that Divine does not anticipate claim 21. It also follows that any alleged combination of Divine and Sands is likewise missing the emphasized elements of claim 21, and accordingly fails to establish a *prima facie* case of obviousness against claim 21. Therefore, independent claim 21 and all claims depending therefrom are allowable.

Independent Claim 31

New independent claim 31 is also allowable. Claim 31 sets forth a method comprising receiving a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle. The method of claim 31 further comprises determining, by performing at least one of a verification process or an authentication process via one or more processors in response to the request, whether the request is authorized to access the user profile. The method of claim 31 further comprises, in response to determining that the request is authorized to access the user profile, determining, via the one or more processors, one or more requested modifications to at least one of the one or more preferences. The method of claim 31 further comprises, in response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

For at least the same reasons discussed above in connection with claim 21, Divine and Sands are each missing at least the elements of claim 31 emphasized above. It follows that Divine does not anticipate claim 31. It also follows that any alleged combination of Divine and Sands is likewise missing the emphasized elements of claim 31, and accordingly fails to establish

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a *prima facie* case of obviousness against claim 31. Therefore, independent claim 31 and all claims depending therefrom are allowable.

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Conclusion

In general, the Office Action makes various statements regarding the pending claims and the cited references that are now moot in light of the above. Thus, the Applicant will not address such statements at the present time. However, the Applicant expressly reserves the right to challenge such statements in the future should the need arise (e.g., if such statement should become relevant by appearing in a rejection of any current or future claim).

All claims are in condition for allowance. If there are any remaining issues in this application, the Applicant encourages the Examiner to contact the undersigned at the number listed below. The Commissioner is authorized to charge any deficiency in the submitted payment toward payment of any fee due for the filing of this paper to deposit account number 60-5022.

In addition, if a petition for an extension of time under 37 CFR 1.136(a) is necessary to maintain the pendency of this case and is not otherwise requested in this case, the Applicant requests that the Commissioner consider this paper to be a petition for an appropriate extension of time and hereby authorizes the Commissioner to charge the fee as set forth in 37 CFR 1.17(a) corresponding to the needed extension of time to deposit account number 60-5022.

Respectfully submitted,

AVANTECH LAW, LLP
USPTO Customer No. 192827
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Dated: July 20, 2023

/Robert A. Conley/
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Amendments to the Specification:

Please amend paragraphs [0001] – [0003] of the specification as follows:

[0001] The present application is a continuation of and claims priority to U.S. Patent Application No. 17/233,412, filed on April 16, 2021, entitled "Access and Portability of User Profiles Stored as Templates", which is a continuation of and claims priority to U.S. Patent Application No. 16,247,128, filed on January 14, 2019, entitled "Access and Portability of User Profiles Stored as Templates", which is a continuation of and claims priority to U.S. Patent Application No. 15/288, 244, filed on October 7, 2016, entitled "Access and Portability of User Profiles Stored as Templates", which is a continuation of and claims priority to each of U.S. Patent Application ~~Serial~~ Nos.: (1) 14/252,863, filed on April 15, 2014, ~~of the same title~~ entitled "Access and Portability of User Profiles Stored as Templates"; (2) 14/252,865, filed on April 15, 2014, entitled "User Profile Exchange via Vehicle Supported Communications Protocol"; (3) 14/252,868, filed on April 15, 2014, entitled "Transfer of User Profile Data via Vehicle Agency Control"; (4) 15/099,413, filed on April 14, 2016, entitled "Guest Vehicle User Reporting," which is a continuation of U.S. Patent Application ~~Serial~~ No. 14/252,871, filed on April 15, 2014, ~~of the same title~~ entitled "Guest Vehicle User Reporting"; and (5) 14/831,696, filed on August 20, 2015, entitled "Parental Control over Vehicle Features and Child Alert System," which is a continuation of U.S. Patent Application ~~Serial~~ No. 14/252,876, filed on April 15, 2014, ~~of the same title~~ entitled "Parental Control over Vehicle Features and Child Alert Systems". Each of the foregoing applications claims the benefits of and priority, under 35 U.S.C. § 119(e), to U.S. Provisional Patent Application ~~Serial~~ Nos.: 61/811,981, filed on April 15, 2013, entitled "Functional Specification for a Next Generation Automobile"; 61/865,954,

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filed on August 14, 2013, entitled "Gesture Control of Vehicle Features"; 61/870,698, filed on August 27, 2013, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; 61/891,217, filed on October 15, 2013, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; 61/904,205, filed on November 14, 2013, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; 61/924,572, filed on January 7, 2014, entitled "Gesture Control and User Profiles Associated with Vehicle Features"; and 61/926,749, filed on January 13, 2014, entitled "Method and System for Providing Infotainment in a Vehicle." The entire disclosures of the applications listed above are hereby incorporated by reference, in their entirety, for all that they teach and for all purposes.

[0002] This application is also related to U.S. Patent Application Nos.: 13/420,236, filed on March 14, 2012, entitled, "Configurable Vehicle Console"; 13/420,240, filed on March 14, 2012, entitled "Removable, Configurable Vehicle Console"; 13/462,593, filed on May 2, 2012, entitled "Configurable Dash Display"; 13/462,596, filed on May 2, 2012, entitled "Configurable Heads-Up Dash Display"; 13/679,459, filed on November 16, 2012, entitled "Vehicle Comprising Multi-Operating System" ~~(Attorney Docket No. 6583-228)~~; 13/679,234, filed on November 16, 2012, entitled "Gesture Recognition for On-Board Display" ~~(Attorney Docket No. 6583-229)~~; 13/679,412, filed on November 16, 2012, entitled "Vehicle Application Store for Console" ~~(Attorney Docket No. 6583-230)~~; 13/679,857, filed on November 16, 2012, entitled "Sharing Applications/Media Between Car and Phone (Hydroid)" ~~(Attorney Docket No. 6583-231)~~; 13/679,878, filed on November 16, 2012, entitled "In-Cloud Connection for Car Multimedia" ~~(Attorney Docket No. 6583-232)~~; 13/679,875, filed on November 16, 2012, entitled "Music Streaming" ~~(Attorney Docket No. 6583-233)~~; 13/679,676, filed on November 16, 2012, entitled "Control of Device Features Based on Vehicle State" ~~(Attorney Docket No. 6583-234)~~;

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13/678,673, filed on November 16, 2012, entitled "Insurance Tracking" ~~(Attorney Docket No. 6583-235)~~; 13/678,691, filed on November 16, 2012, entitled "Law Breaking/Behavior Sensor" ~~(Attorney Docket No. 6583-236)~~; 13/678,699, filed on November. 16, 2012, entitled "Etiquette Suggestion" ~~(Attorney Docket No. 6583-237)~~; 13/678,710, filed on November 16, 2012, entitled "Parking Space Finder Based on Parking Meter Data" ~~(Attorney Docket No. 6583-238)~~; 13/678,722, filed on November 16, 2012, entitled "Parking Meter Expired Alert" ~~(Attorney Docket No. 6583-239)~~; 13/678,726, filed on November 16, 2012, entitled "Object Sensing (Pedestrian Avoidance/Accident Avoidance)" ~~(Attorney Docket No. 6583-240)~~; 13/678,735, filed on November 16, 2012, entitled "Proximity Warning Relative to Other Cars" ~~(Attorney Docket No. 6583-241)~~; 13/678,745, filed on November 16, 2012, entitled "Street Side Sensors" ~~(Attorney Docket No. 6583-242)~~; 13/678,753, filed on November 16, 2012, entitled "Car Location" ~~(Attorney Docket No. 6583-243)~~; 13/679,441, filed on November 16, 2012, entitled "Universal Bus in the Car" ~~(Attorney Docket No. 6583-244)~~; 13/679,864, filed on November 16, 2012, entitled "Mobile Hot Spot/Router/Application Share Site or Network" ~~(Attorney Docket No. 6583-245)~~; 13/679,815, filed on November 16, 2012, entitled "Universal Console Chassis for the Car" ~~(Attorney Docket No. 6583-246)~~; 13/679,476, filed on November 16, 2012, entitled "Vehicle Middleware" ~~(Attorney Docket No. 6583-247)~~; 13/679,306, filed on November 16, 2012, entitled "Method and System for Vehicle Data Collection Regarding Traffic" ~~(Attorney Docket No. 6583-248)~~; 13/679,369, filed on November 16, 2012, entitled "Method and System for Vehicle Data Collection" ~~(Attorney Docket No. 6583-249)~~; 13/679,680, filed on November 16, 2012, entitled "Communications Based on Vehicle Diagnostics and Indications" ~~(Attorney Docket No. 6583-250)~~; 13/679,443, filed on November 16, 2012, entitled "Method and System for Maintaining and Reporting Vehicle Occupant Information" ~~(Attorney Docket No. 6583-251)~~;

13/678,762, filed on November 16, 2012, entitled "Behavioral Tracking and Vehicle Applications" ~~(Attorney Docket No. 6583-252)~~; 13/679,292, filed November 16, 2012, entitled "Branding of Electrically Propelled Vehicles Via the Generation of Specific Operating Output" ~~(Attorney Docket No. 6583-258)~~; 13/679,400, filed November 16, 2012, entitled "Vehicle Climate Control" ~~(Attorney Docket No. 6583-313)~~; 13/840,240, filed on March 15, 2013, entitled "Improvements to Controller Area Network Bus" ~~(Attorney Docket No. 6583-314)~~; 13/678,773, filed on November 16, 2012, entitled "Location Information Exchange Between Vehicle and Device" ~~(Attorney Docket No. 6583-315)~~; 13/679,887, filed on November 16, 2012, entitled "In Car Communication Between Devices" ~~(Attorney Docket No. 6583-316)~~; 13/679,842, filed on November 16, 2012, entitled "Configurable Hardware Unit for Car Systems" ~~(Attorney Docket No. 6583-317)~~; 13/679,204, filed on November 16, 2012, entitled "Feature Recognition for Configuring a Vehicle Console and Associated Devices" ~~(Attorney Docket No. 6583-318)~~; 13/679,350, filed on November 16, 2012, entitled "Configurable Vehicle Console" ~~(Attorney Docket No. 6583-412)~~; 13/679,358, filed on November 16, 2012, entitled "Configurable Dash Display" ~~(Attorney Docket No. 6583-413)~~; 13/679,363, filed on November 16, 2012, entitled "Configurable Heads-Up Dash Display" ~~(Attorney Docket No. 6583-414)~~; and 13/679,368, filed on November 16, 2012, entitled "Removable, Configurable Vehicle Console" ~~(Attorney Docket No. 6583-415)~~. The entire disclosures of the applications listed above are hereby incorporated by reference, in their entirety, for all that they teach and for all purposes.

[0003] This application is also related to PCT Patent Application Nos.: [[PCT/US14/_____]] PCT/US14/34092, filed on April 15, 2014, entitled, "Building Profiles Associated with Vehicle Users" ~~(Attorney Docket No. 6583-543-PCT)~~; [[PCT/US14/_____]] PCT/US14/34099, filed on April 15, 2014, entitled "Access and Portability of User Profiles Stored as Templates" ~~(Attorney~~

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~~Docket No. 6583-544-PCT)~~; [[PCT/US14/_____]] PCT/US14/34087, filed on April 15, 2014, entitled "User Interface and Virtual Personality Presentation Based on User Profile" ~~(Attorney Docket No. 6583-547-PCT)~~; [[PCT/US14/_____]] PCT/US14/34088, filed on April 15, 2014, entitled "Creating Targeted Advertising Profiles Based on User Behavior" ~~(Attorney Docket No. 6583-549-PCT)~~; [[PCT/US14/_____]] PCT/US14/34232, filed on April 15, 2014, entitled "Behavior Modification via Altered Map Routes Based on User Profile Information" ~~(Attorney Docket No. 6583-550-PCT)~~; [[PCT/US14/_____]] PCT/US14/34098, filed on April 15, 2014, entitled "Vehicle Location-Based Home Automation Triggers" ~~(Attorney Docket No. 6583-556-PCT)~~; [[PCT/US14/_____]] PCT/US14/34108, filed on April 15, 2014, entitled "Vehicle Initiated Communications with Third Parties via Virtual Personalities" ~~(Attorney Docket No. 6583-559-PCT)~~; [[PCT/US14/_____]] PCT/US14/34101, filed on April 15, 2014, entitled "Vehicle Intruder Alert Detection and Indication" ~~(Attorney Docket No. 6583-562-PCT)~~; [[PCT/US14/_____]] PCT/US14/34103, filed on April 15, 2014, entitled "Driver Facts Behavior Information Storage System" ~~(Attorney Docket No. 6583-565-PCT)~~; [[PCT/US14/_____]] PCT/US14/34114, filed on April 15, 2014, entitled "Synchronization Between Vehicle and User Device Calendar" ~~(Attorney Docket No. 6583-567-PCT)~~; [[PCT/US14/_____]] PCT/US14/34125, filed on April 15, 2014, entitled "User Gesture Control of Vehicle Features" ~~(Attorney Docket No. 6583-569-PCT)~~; [[PCT/US14/_____]] PCT/US14/34254, filed on April 15, 2014, entitled "Central Network for the Automated Control of Vehicular Traffic" ~~(Attorney Docket No. 6583-574-PCT)~~; and [[PCT/US14/_____]] PCT/US14/34194, filed on April 15, 2014, entitled "Vehicle-Based Multimode Discovery" ~~(Attorney Docket No. 6583-585-PCT)~~. The entire disclosures of the applications listed above are hereby incorporated by reference, in their entirety, for all that they teach and for all purposes.

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-20. (Canceled)

Please add the following new claims:

21. (New) A system, comprising:

memory;

machine-readable instructions; and

one or more processors to execute the machine-readable instructions to:

receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle;

determine, by performing at least one of a verification process or an authentication process in response to the request, whether the request is authorized to access the user profile;

in response to determining that the request is authorized to access the user profile, determine one or more requested modifications to at least one of the one or more preferences; and

in response to the one or more requested modifications, create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

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22. (New) The system of claim 21, wherein the one or more processors are to execute the machine-readable instructions to transmit the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to the transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle.

23. (New) The system of claim 22, wherein the one or more processors are to execute the machine-readable instructions to determine whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile.

24. (New) The system of claim 23, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to overwrite conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences.

25. (New) The system of claim 23, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to perform a reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences.

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26. (New) The system of claim 21, wherein the one or more processors are to perform both the verification process and the authentication process, and wherein the one or more processors are to determine that the request is authorized to access the user profile in response to successfully verifying the request via the verification process and successfully authenticating the request via the authentication process.

27. (New) The system of claim 21, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device.

28. (New) The system of claim 21, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device.

29. (New) The system of claim 21, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template.

30. (New) The system of claim 29, wherein the template is a global standard template that is common among at least two vehicle manufacturers.

31. (New) A method, comprising:

receiving a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle;

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determining, by performing at least one of a verification process or an authentication process via one or more processors in response to the request, whether the request is authorized to access the user profile;

in response to determining that the request is authorized to access the user profile, determining, via the one or more processors, one or more requested modifications to at least one of the one or more preferences; and

in response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

32. (New) The method of claim 31, further comprising transmitting the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to the transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle.

33. (New) The method of claim 32, further comprising determining whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile.

34. (New) The method of claim 33, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the method

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further comprises overwriting conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences.

35. (New) The method of claim 33, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the method further comprises performing a reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences.

36. (New) The method of claim 31, further comprising performing both the verification process and the authentication process, wherein determining that the request is authorized to access the user profile includes successfully verifying the request via the verification process and successfully authenticating the request via the authentication process.

37. (New) The method of claim 31, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device.

38. (New) The method of claim 31, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device.

39. (New) The method of claim 31, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template.

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40. (New) The method of claim 39, wherein the template is a global standard template that is common among at least two vehicle manufacturers.

No new matter has been added.

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Remarks

The Applicant has considered the Office Action dated February 8, 2023 ("the Office Action"), and the references cited therein. Paragraphs [0001] – [0003] of the specification have been amended. Claims 1-20 have been canceled without prejudice to their further prosecution. New claims 21-40 have been added. No new matter has been added. All pending claims are in condition for allowance and favorable reconsideration is respectfully requested.

The Rejections under 35 U.S.C. §§ 102 and 103

Claims 1-3, 5, 7-13, 15, and 17-20 stand rejected under 35 U.S.C. § 102 as allegedly anticipated by Divine et al., U.S Patent Application Publication No. 2013/0030645 ("Divine"). Claims 4, 6, 14, and 16 stand rejected under 35 U.S.C. § 103 as allegedly unpatentable over Divine in view of Sands et al., U.S. Patent Application Publication No. 2004/0148526 ("Sands"). The Applicant traverses the art-based rejections in their entirety.

In responding to the art-based rejections, the Applicant here only justifies the patentability of the independent claims. As the Examiner will appreciate, should the independent claims be patentable over the prior art, narrower dependent claims would also necessarily be patentable. Accordingly, the Applicant does not separately discuss the patentability of the dependent claims, although it reserves the right to do so at a later time if necessary.

Moreover, the Applicant, in justifying patentability, does not necessarily respond to every point made in the Office Action, as the Office Action's findings or conclusions may be irrelevant given the Applicant's justifications. The Applicant therefore should not be understood to agree with the Office Action's findings or conclusions merely because the Applicant chooses not to respond to such findings or conclusions.

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Independent Claim 1

Independent claim 1 and the claims depending therefrom have been canceled by way of the amendments to the claims submitted herewith. It follows that the art-based rejections of those claims are moot. Withdrawal of the art-based rejections of independent claim 1 and the claims depending therefrom is requested.

Independent Claim 11

Independent claim 11 and the claims depending therefrom have been canceled by way of the amendments to the claims submitted herewith. It follows that the art-based rejections of those claims are moot. Withdrawal of the art-based rejections of independent claim 11 and the claims depending therefrom is requested.

Independent Claim 21

New independent claim 21 is allowable. Claim 21 sets forth a system comprising memory, machine-readable instructions, and one or more processors. Claim 21 sets forth that the one or more processors are to execute the machine-readable instructions to receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle. Claim 21 further sets forth that the one or more processors are to execute the machine-readable instructions to determine, by performing at least one of a verification process or an authentication process in response to the request, whether the request is authorized to access the user profile. Claim 21 further sets forth that the one or more processors are to execute the machine-readable instructions, in response to determining that the request is authorized to access the user profile, to determine one or more requested modifications to at least one of the one or more preferences. Claim 21 further sets forth that the one or more processors are to execute the machine-readable instructions, in response to the one

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or more requested modifications, to create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications. Divine, whether taken alone or in combination with Sands, is missing at least the elements of claim 21 emphasized above.

Divine describes a vehicle infotainment system including an automated control algorithm for recommending and administering content delivery to occupants of the vehicle. (Divine, ¶ [0001]). The vehicle infotainment system includes an occupant detector configured to receive characteristic data for occupants of the vehicle and generate a profile for each occupant of the vehicle. (*Id.*, at ¶ [0004]). The vehicle infotainment system further includes a recommendation engine that analyzes the profiles of the vehicle occupants, and a content delivery engine that delivers content to one or more of the vehicle occupants in accordance with the analysis of the profiles of the vehicle occupants. (*Id.*).

Divine further describes that a vehicle occupant may directly request that the control algorithm of the vehicle infotainment system take certain content into account with high priority. (*Id.*, at [0041]). Divine fails, however, to teach or suggest that the system receives a request to access the occupant profile stored by the vehicle infotainment system. It follows that Divine fails to teach or suggest one or more processors to execute machine-readable instructions to receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle, as set forth in claim 21.

Even if Divine were to teach or suggest that the system receives a request to access the occupant profile stored by the vehicle infotainment system (to be clear, Divine provides no such teaching or suggestion), Divine nonetheless fails to teach or suggest, in response to the system successfully authorizing a request to access the occupant profile, determining one or more

requested modifications to at least one of the one or more preferences included within the occupant profile. It follows that Divine fails to teach or suggest one or more processors to execute machine-readable instructions, in response to determining that the request is authorized to access the user profile, to determine one or more requested modifications to at least one of the one or more preferences, as set forth in claim 21. It also follows that Divine fails to teach or suggest one or more processors to execute machine-readable instructions, in response to the one or more requested modifications, to create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications, as set forth in claim 21.

Sands fails to cure the above-described deficiencies of Divine relative to the subject matter of claim 21. The Office Action does not suggest otherwise. In this regard, the Office Action relies on Sands solely for its teachings pertaining to a biometric authentication process that may involve the use of encrypted biometric information. (Office Action, pp. 5-6). Sands fails to teach or suggest one or more processors to execute machine-readable instructions to receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle, as set forth in claim 21. Sands also fails to teach or suggest one or more processors to execute machine-readable instructions, in response to determining that the request is authorized to access the user profile, to determine one or more requested modifications to at least one of the one or more preferences, as set forth in claim 21. Sands also fails to teach or suggest one or more processors to execute machine-readable instructions, in response to the one or more requested modifications, to create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications, as set forth in claim 21.

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Divine and Sands are each missing at least the elements of claim 21 emphasized above. It follows that Divine does not anticipate claim 21. It also follows that any alleged combination of Divine and Sands is likewise missing the emphasized elements of claim 21, and accordingly fails to establish a *prima facie* case of obviousness against claim 21. Therefore, independent claim 21 and all claims depending therefrom are allowable.

Independent Claim 31

New independent claim 31 is also allowable. Claim 31 sets forth a method comprising receiving a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle. The method of claim 31 further comprises determining, by performing at least one of a verification process or an authentication process via one or more processors in response to the request, whether the request is authorized to access the user profile. The method of claim 31 further comprises, in response to determining that the request is authorized to access the user profile, determining, via the one or more processors, one or more requested modifications to at least one of the one or more preferences. The method of claim 31 further comprises, in response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

For at least the same reasons discussed above in connection with claim 21, Divine and Sands are each missing at least the elements of claim 31 emphasized above. It follows that Divine does not anticipate claim 31. It also follows that any alleged combination of Divine and Sands is likewise missing the emphasized elements of claim 31, and accordingly fails to establish

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a *prima facie* case of obviousness against claim 31. Therefore, independent claim 31 and all claims depending therefrom are allowable.

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Conclusion

In general, the Office Action makes various statements regarding the pending claims and the cited references that are now moot in light of the above. Thus, the Applicant will not address such statements at the present time. However, the Applicant expressly reserves the right to challenge such statements in the future should the need arise (e.g., if such statement should become relevant by appearing in a rejection of any current or future claim).

All claims are in condition for allowance. If there are any remaining issues in this application, the Applicant encourages the Examiner to contact the undersigned at the number listed below. The Commissioner is authorized to charge any deficiency in the submitted payment toward payment of any fee due for the filing of this paper to deposit account number 60-5022.

In addition, if a petition for an extension of time under 37 CFR 1.136(a) is necessary to maintain the pendency of this case and is not otherwise requested in this case, the Applicant requests that the Commissioner consider this paper to be a petition for an appropriate extension of time and hereby authorizes the Commissioner to charge the fee as set forth in 37 CFR 1.17(a) corresponding to the needed extension of time to deposit account number 60-5022.

Respectfully submitted,

AVANTECH LAW, LLP
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Dated: July 20, 2023

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-20. (Canceled)

Please add the following new claims:

21. (New) A system, comprising:

memory;

machine-readable instructions; and

one or more processors to execute the machine-readable instructions to:

receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle;

determine, by performing at least one of a verification process or an authentication process in response to the request, whether the request is authorized to access the user profile;

in response to determining that the request is authorized to access the user profile, determine one or more requested modifications to at least one of the one or more preferences; and

in response to the one or more requested modifications, create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

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22. (New) The system of claim 21, wherein the one or more processors are to execute the machine-readable instructions to transmit the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to the transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle.

23. (New) The system of claim 22, wherein the one or more processors are to execute the machine-readable instructions to determine whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile.

24. (New) The system of claim 23, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to overwrite conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences.

25. (New) The system of claim 23, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to perform a reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences.

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26. (New) The system of claim 21, wherein the one or more processors are to perform both the verification process and the authentication process, and wherein the one or more processors are to determine that the request is authorized to access the user profile in response to successfully verifying the request via the verification process and successfully authenticating the request via the authentication process.

27. (New) The system of claim 21, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device.

28. (New) The system of claim 21, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device.

29. (New) The system of claim 21, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template.

30. (New) The system of claim 29, wherein the template is a global standard template that is common among at least two vehicle manufacturers.

31. (New) A method, comprising:

receiving a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle;

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determining, by performing at least one of a verification process or an authentication process via one or more processors in response to the request, whether the request is authorized to access the user profile;

in response to determining that the request is authorized to access the user profile, determining, via the one or more processors, one or more requested modifications to at least one of the one or more preferences; and

in response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

32. (New) The method of claim 31, further comprising transmitting the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to the transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle.

33. (New) The method of claim 32, further comprising determining whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile.

34. (New) The method of claim 33, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the method

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further comprises overwriting conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences.

35. (New) The method of claim 33, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the method further comprises performing a reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences.

36. (New) The method of claim 31, further comprising performing both the verification process and the authentication process, wherein determining that the request is authorized to access the user profile includes successfully verifying the request via the verification process and successfully authenticating the request via the authentication process.

37. (New) The method of claim 31, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device.

38. (New) The method of claim 31, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device.

39. (New) The method of claim 31, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template.

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40. (New) The method of claim 39, wherein the template is a global standard template that is common among at least two vehicle manufacturers.

No new matter has been added.

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Remarks

The Applicant has considered the Office Action dated February 8, 2023 ("the Office Action"), and the references cited therein. Paragraphs [0001] – [0003] of the specification have been amended. Claims 1-20 have been canceled without prejudice to their further prosecution. New claims 21-40 have been added. No new matter has been added. All pending claims are in condition for allowance and favorable reconsideration is respectfully requested.

The Rejections under 35 U.S.C. §§ 102 and 103

Claims 1-3, 5, 7-13, 15, and 17-20 stand rejected under 35 U.S.C. § 102 as allegedly anticipated by Divine et al., U.S Patent Application Publication No. 2013/0030645 ("Divine"). Claims 4, 6, 14, and 16 stand rejected under 35 U.S.C. § 103 as allegedly unpatentable over Divine in view of Sands et al., U.S. Patent Application Publication No. 2004/0148526 ("Sands"). The Applicant traverses the art-based rejections in their entirety.

In responding to the art-based rejections, the Applicant here only justifies the patentability of the independent claims. As the Examiner will appreciate, should the independent claims be patentable over the prior art, narrower dependent claims would also necessarily be patentable. Accordingly, the Applicant does not separately discuss the patentability of the dependent claims, although it reserves the right to do so at a later time if necessary.

Moreover, the Applicant, in justifying patentability, does not necessarily respond to every point made in the Office Action, as the Office Action's findings or conclusions may be irrelevant given the Applicant's justifications. The Applicant therefore should not be understood to agree with the Office Action's findings or conclusions merely because the Applicant chooses not to respond to such findings or conclusions.

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Independent Claim 1

Independent claim 1 and the claims depending therefrom have been canceled by way of the amendments to the claims submitted herewith. It follows that the art-based rejections of those claims are moot. Withdrawal of the art-based rejections of independent claim 1 and the claims depending therefrom is requested.

Independent Claim 11

Independent claim 11 and the claims depending therefrom have been canceled by way of the amendments to the claims submitted herewith. It follows that the art-based rejections of those claims are moot. Withdrawal of the art-based rejections of independent claim 11 and the claims depending therefrom is requested.

Independent Claim 21

New independent claim 21 is allowable. Claim 21 sets forth a system comprising memory, machine-readable instructions, and one or more processors. Claim 21 sets forth that the one or more processors are to execute the machine-readable instructions to receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle. Claim 21 further sets forth that the one or more processors are to execute the machine-readable instructions to determine, by performing at least one of a verification process or an authentication process in response to the request, whether the request is authorized to access the user profile. Claim 21 further sets forth that the one or more processors are to execute the machine-readable instructions, in response to determining that the request is authorized to access the user profile, to determine one or more requested modifications to at least one of the one or more preferences. Claim 21 further sets forth that the one or more processors are to execute the machine-readable instructions, in response to the one

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or more requested modifications, to create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications. Divine, whether taken alone or in combination with Sands, is missing at least the elements of claim 21 emphasized above.

Divine describes a vehicle infotainment system including an automated control algorithm for recommending and administering content delivery to occupants of the vehicle. (Divine, ¶ [0001]). The vehicle infotainment system includes an occupant detector configured to receive characteristic data for occupants of the vehicle and generate a profile for each occupant of the vehicle. (*Id.*, at ¶ [0004]). The vehicle infotainment system further includes a recommendation engine that analyzes the profiles of the vehicle occupants, and a content delivery engine that delivers content to one or more of the vehicle occupants in accordance with the analysis of the profiles of the vehicle occupants. (*Id.*).

Divine further describes that a vehicle occupant may directly request that the control algorithm of the vehicle infotainment system take certain content into account with high priority. (*Id.*, at [0041]). Divine fails, however, to teach or suggest that the system receives a request to access the occupant profile stored by the vehicle infotainment system. It follows that Divine fails to teach or suggest one or more processors to execute machine-readable instructions to receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle, as set forth in claim 21.

Even if Divine were to teach or suggest that the system receives a request to access the occupant profile stored by the vehicle infotainment system (to be clear, Divine provides no such teaching or suggestion), Divine nonetheless fails to teach or suggest, in response to the system successfully authorizing a request to access the occupant profile, determining one or more

requested modifications to at least one of the one or more preferences included within the occupant profile. It follows that Divine fails to teach or suggest one or more processors to execute machine-readable instructions, in response to determining that the request is authorized to access the user profile, to determine one or more requested modifications to at least one of the one or more preferences, as set forth in claim 21. It also follows that Divine fails to teach or suggest one or more processors to execute machine-readable instructions, in response to the one or more requested modifications, to create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications, as set forth in claim 21.

Sands fails to cure the above-described deficiencies of Divine relative to the subject matter of claim 21. The Office Action does not suggest otherwise. In this regard, the Office Action relies on Sands solely for its teachings pertaining to a biometric authentication process that may involve the use of encrypted biometric information. (Office Action, pp. 5-6). Sands fails to teach or suggest one or more processors to execute machine-readable instructions to receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle, as set forth in claim 21. Sands also fails to teach or suggest one or more processors to execute machine-readable instructions, in response to determining that the request is authorized to access the user profile, to determine one or more requested modifications to at least one of the one or more preferences, as set forth in claim 21. Sands also fails to teach or suggest one or more processors to execute machine-readable instructions, in response to the one or more requested modifications, to create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications, as set forth in claim 21.

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Divine and Sands are each missing at least the elements of claim 21 emphasized above. It follows that Divine does not anticipate claim 21. It also follows that any alleged combination of Divine and Sands is likewise missing the emphasized elements of claim 21, and accordingly fails to establish a *prima facie* case of obviousness against claim 21. Therefore, independent claim 21 and all claims depending therefrom are allowable.

Independent Claim 31

New independent claim 31 is also allowable. Claim 31 sets forth a method comprising receiving a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle. The method of claim 31 further comprises determining, by performing at least one of a verification process or an authentication process via one or more processors in response to the request, whether the request is authorized to access the user profile. The method of claim 31 further comprises, in response to determining that the request is authorized to access the user profile, determining, via the one or more processors, one or more requested modifications to at least one of the one or more preferences. The method of claim 31 further comprises, in response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

For at least the same reasons discussed above in connection with claim 21, Divine and Sands are each missing at least the elements of claim 31 emphasized above. It follows that Divine does not anticipate claim 31. It also follows that any alleged combination of Divine and Sands is likewise missing the emphasized elements of claim 31, and accordingly fails to establish

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a *prima facie* case of obviousness against claim 31. Therefore, independent claim 31 and all claims depending therefrom are allowable.

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Conclusion

In general, the Office Action makes various statements regarding the pending claims and the cited references that are now moot in light of the above. Thus, the Applicant will not address such statements at the present time. However, the Applicant expressly reserves the right to challenge such statements in the future should the need arise (e.g., if such statement should become relevant by appearing in a rejection of any current or future claim).

All claims are in condition for allowance. If there are any remaining issues in this application, the Applicant encourages the Examiner to contact the undersigned at the number listed below. The Commissioner is authorized to charge any deficiency in the submitted payment toward payment of any fee due for the filing of this paper to deposit account number 60-5022.

In addition, if a petition for an extension of time under 37 CFR 1.136(a) is necessary to maintain the pendency of this case and is not otherwise requested in this case, the Applicant requests that the Commissioner consider this paper to be a petition for an appropriate extension of time and hereby authorizes the Commissioner to charge the fee as set forth in 37 CFR 1.17(a) corresponding to the needed extension of time to deposit account number 60-5022.

Respectfully submitted,

AVANTECH LAW, LLP
USPTO Customer No. 192827
(855) 750-9951

Dated: July 20, 2023

/Robert A. Conley/
Robert A. Conley
Registration No. 55,846
Attorney for Applicant

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Page 334 of 472

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
17/515,961	11/01/2021	2851	1040	50365-0005002	20	2

CONFIRMATION NO. 5218

REPLACEMENT FILING RECEIPT

192827
Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

OC00000006416277 2

Date Mailed: 11/07/2023

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

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 corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

Inventor(s)

Christopher P. Ricci, Saratoga, CA;

Applicant(s)

AutoConnect Holdings LLC, Wellesly, MA;

Power of Attorney: The patent practitioners associated with Customer Number 192827

Domestic Priority data as claimed by applicant

This application is a CON of 17/233,412 04/16/2021 PAT 11,163,931
which is a CON of 16/247,128 01/14/2019 ABN
which is a CON of 15/288,244 10/07/2016 ABN
which is a CON of 14/252,863 04/15/2014 ABN
which claims benefit of 61/811,981 04/15/2013
and claims benefit of 61/865,954 08/14/2013
and claims benefit of 61/870,698 08/27/2013
and claims benefit of 61/891,217 10/15/2013
and claims benefit of 61/904,205 11/14/2013
and claims benefit of 61/924,572 01/07/2014
and claims benefit of 61/926,749 01/13/2014
and said 15/288,244 10/07/2016 is a CON of 14/252,865 04/15/2014 ABN
which claims benefit of 61/811,981 04/15/2013
and claims benefit of 61/865,954 08/14/2013
and claims benefit of 61/870,698 08/27/2013
and claims benefit of 61/891,217 10/15/2013

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and claims benefit of 61/904,205 11/14/2013
and claims benefit of 61/924,572 01/07/2014
and claims benefit of 61/926,749 01/13/2014
and said 15/288,244 10/07/2016 is a CON of 14/252,868 04/15/2014 ABN
which claims benefit of 61/811,981 04/15/2013
and claims benefit of 61/865,954 08/14/2013
and claims benefit of 61/870,698 08/27/2013
and claims benefit of 61/891,217 10/15/2013
and claims benefit of 61/904,205 11/14/2013
and claims benefit of 61/924,572 01/07/2014
and claims benefit of 61/926,749 01/13/2014
and said 15/288,244 10/07/2016 is a CON of 15/099,413 04/14/2016 ABN
which is a CON of 14/252,871 04/15/2014 ABN
which claims benefit of 61/811,981 04/15/2013
and claims benefit of 61/865,954 08/14/2013
and claims benefit of 61/870,698 08/27/2013
and claims benefit of 61/891,217 10/15/2013
and claims benefit of 61/904,205 11/14/2013
and claims benefit of 61/924,572 01/07/2014
and claims benefit of 61/926,749 01/13/2014
and said 15/288,244 10/07/2016 is a CON of 14/831,696 08/20/2015 PAT 9,545,930
which is a CON of 14/252,876 04/15/2014 ABN
which claims benefit of 61/811,981 04/15/2013
and claims benefit of 61/865,954 08/14/2013
and claims benefit of 61/870,698 08/27/2013
and claims benefit of 61/891,217 10/15/2013
and claims benefit of 61/904,205 11/14/2013
and claims benefit of 61/924,572 01/07/2014
and claims benefit of 61/926,749 01/13/2014

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: 11/12/2021

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/515,961**

Projected Publication Date: 02/24/2022

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

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Title

ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Preliminary Class

716

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).

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Page 337 of 472

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/515,961	11/01/2021	Christopher P. Ricci	50365-0005002	5218

192827 7590 11/13/2023

Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

EXAMINER	
WHITMORE, STACY	

ART UNIT	PAPER NUMBER
2851	

NOTIFICATION DATE	DELIVERY MODE
11/13/2023	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):

USPTO@avantechlaw.com
conley@avantechlaw.com

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Application of	:	
AutoConnect Holdings LLC	:	
Application No. 17/515,961	:	
Filed: 1 Nov 2021	:	DECISION ON PETITION
For: ACCESS AND PORTABILITY OF	:	
USER PROFILES STORED AS	:	
TEMPLATES	:	

This is a decision on the petition under 37 CFR 1.78(c) and (e), filed July 18, 2023, to accept an unintentionally delayed claim under 35 U.S.C. 119(e) and 120 for the benefit of priority to prior-filed nonprovisional and provisional applications set forth in the concurrently filed Application Data Sheet ("ADS").

The petition under 37 CFR 1.78(c) and (e) is **DISMISSED** as inappropriate.

MPEP 211.03 Time Period for Making a Claim for Benefit Under 37 CFR 1.78 [R-08.2017], states, in pertinent part:

> ...If an applicant includes a claim to the benefit of a prior application elsewhere in the application but not in the manner specified in 37 CFR 1.78 (e.g., if the benefit claim is not present in the proper place but is included in an oath or declaration, or the application transmittal letter, or in the first sentence(s) of the specification for an application filed on or after September 16, 2012) within the time period set forth in 37 CFR 1.78, the Office will not require a petition and the petition fee under 37 CFR 1.17(m) to correct the benefit claim if the information concerning the benefit claim contained elsewhere in the application was recognized by the Office as shown by its inclusion on the first filing receipt. This is because the application will have been scheduled for publication on the basis of such information concerning the benefit claim. Applicant must still submit the benefit claim in the manner specified in 37 CFR 1.78 (i.e., in an ADS in compliance with 37 CFR 1.76 (or for applications filed prior to September 16, 2012 by an amendment to the first sentence(s) of the specification or in an ADS in compliance with pre-AIA 37 CFR 1.76) to have a proper claim under 35 U.S.C. 120 or 119(e) and 37 CFR 1.78 to the benefit of a prior application...

The desired benefit information was recognized by the Office, as is shown by its inclusion on the first filing receipt, mailed November 16, 2021. Since the Office recognized the timely, but unacceptable benefit claim in the first filing receipt, the petition is dismissed as inappropriate.

A petition has never been required to delete a benefit claim.

Petitioner has filed an ADS in compliance with 37 CFR 1.76 presenting a proper benefit claim. Petitioner has corrected the continuity type for provisional Application Nos. 61/811,981, 61/865,954, 61/870,698, 61/891,217, 61/904,205, 61/924,572, and 61/926,749 from "Continuation of" to "Claims benefit of provisional". Petitioner has corrected Prior Application Number 148231696 to 14831696.

Accordingly, a replacement filing receipt listing the desired changes to the benefit information is being mailed separately.

The $840 petition fee is **not** subject to refund. While the Office dismissed the petition as inappropriate, the petition fee will be retained because the Office was required to evaluate the merits of the petition before being able to determine that the petition was not appropriate.

Any questions concerning this decision may be directed to the undersigned at (571) 272-3230.

/SHIRENE W BRANTLEY/
Attorney Advisor, OPET

Notice of References Cited	Application/Control No. 17/515,961	Applicant(s)/Patent Under Reexamination Ricci, Christopher P.	
	Examiner STACY WHITMORE	Art Unit 2851	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-9229905-B1	2016-01-05	Penilla; Angel A.	G06Q20/18	1/1
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/515,961	Ricci, Christopher P.
	Examiner	Art Unit
	STACY WHITMORE	2851

CPC - Searched*		
Symbol	**Date**	**Examiner**
(G06F30/392 OR G06F30/398 OR H05K3/0005 OR G06F21/32 OR G06F30/39 OR G06F21/44 OR G06F21/31 OR B60K2370/741 OR B60K2370/73).cpc.	02/03/2023	SW
(G06F30/392 OR G06F30/398 OR H05K3/0005 OR G06F21/32 OR G06F30/39 OR G06F21/44 OR G06F21/31 OR B60K2370/741 OR B60K2370/73).cpc.	12/20/2023	SW
(G06F30/392 OR G06F30/398 OR H05K3/0005 OR G06F21/32 OR G06F30/39 OR G06F21/44 OR G06F21/31 OR B60K2370/741 OR B60K2370/73).cpc.	12/21/2023	SW

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.

/S.W/ Primary Examiner, Art Unit 2851	

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/515,961	Ricci, Christopher P.
	Examiner	Art Unit
	STACY WHITMORE	2851

Search Notes		
Search Notes	**Date**	**Examiner**
PE2E search with limits to CPC - see attached	02/03/2023	SW
inventor and applicant search - see attached	02/03/2023	SW
IP.com search - see attached	02/03/2023	SW
PE2E search with limits to CPC - see attached	12/20/2023	SW
inventor and applicant search - see attached	12/20/2023	SW
PE2E search with limits to CPC - see attached	12/21/2023	SW
IP.com search	12/20/2023	SW

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	see attached us, uspgpub text search	12/21/2023	SW

/S.W/ Primary Examiner, Art Unit 2851	

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/515,961	Ricci, Christopher P.
	Examiner	**Art Unit**
	STACY WHITMORE	2851

CPC							
Symbol						**Type**	**Version**
G06F	/	30	/	392		F	2020-01-01
G06F	/	30	/	39		I	2020-01-01
G06F	/	30	/	398		I	2020-01-01
G06F	/	21	/	32		I	2013-01-01
G06F	/	21	/	44		I	2013-01-01
H05K	/	3	/	0005		I	2013-01-01
G06F	/	21	/	31		I	2013-01-01
B60K	/	2370	/	741		A	2019-05-01
B60K	/	2370	/	73		A	2019-05-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	21	
/STACY WHITMORE/ Primary Examiner, Art Unit 2851	21 December 2023	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	21	8B

U.S. Patent and Trademark Office

Part of Paper No.: 20231221

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/515,961	Ricci, Christopher P.
	Examiner	**Art Unit**
	STACY WHITMORE	2851

INTERNATIONAL CLASSIFICATION				
CLAIMED				
G06F30/39	/	30	/	39
G06F30/398	/	30	/	398
G06F21/32	/	21	/	32
G06F21/44	/	21	/	44

NON-CLAIMED				
G06F30/392	/	30	/	392
H05K3/00	/	3	/	00
G06F21/31	/	21	/	31

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	21	
/STACY WHITMORE/ Primary Examiner, Art Unit 2851	21 December 2023	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	21	8B

U.S. Patent and Trademark Office

Part of Paper No.: 20231221

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Page 346 of 472

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/515,961	Ricci, Christopher P.
	Examiner	**Art Unit**
	STACY WHITMORE	2851

☐ 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	-	10	-	19	8	28	17	37						
-	2	-	11	-	20	9	29	18	38						
-	3	-	12	1	21	10	30	19	39						
-	4	-	13	2	22	11	31	20	40						
-	5	-	14	3	23	12	32								
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NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/STACY WHITMORE/ Primary Examiner, Art Unit 2851	21 December 2023	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	21	8B

U.S. Patent and Trademark Office

Part of Paper No.: 20231221

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PE2E SEARCH - Search History (Prior Art)

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PE2E SEARCH - Search History (Interference)

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17515961
Search History

Report Run Date: 2023-12-20 UTC
Searches: 2
Markers: 0

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Search #	Timestamp	Results	Page
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Content: Patent Publications (169)

US Patents | US Designs | US Applications | EPO Patents | EPO Applications | China Patents | China Applications | Japan Patents | Japan Applications | Korea Patents | Korea Applications | WIPO Applications | Argentina Patents | Argentina Applications | Brazil Patents | Brazil Applications | Canada Patents | Canada Applications | Chile Patents | Chile Applications | Colombia Applications | Costa Rica Applications | Cuba Patents | Cuba Applications | Dominican Republic Applications | Ecuador Patents | Ecuador Applications | El Salvador Applications | Guatemala Applications | Honduras Applications | Mexico Patents | Mexico Applications | Nicaragua Patents | Panama Applications | Peru Applications | Trinidad & Tobago Patents | Uruguay Applications | Austria Patents | Austria Applications | Belarus Patents | Belgium Patents | Belgium Applications | Bosnia & Herzegovina Patents | Bosnia & Herzegovina Applications | Bulgaria Patents | Bulgaria Applications | Croatia Patents | Croatia Applications | Czech Republic Patents | Czech Republic Applications | Czechoslovakia Patents | Czechoslovakia Applications | Denmark Patents | Denmark Applications | Estonia Patents | Estonia Applications | EUIPO Patents | Finland Patents | Finland Applications | France Patents | France Applications | Germany Patents | Germany Applications | Great Britain Patents | Great Britain Applications | Greece Patents | Greece Applications | Hungary Patents | Hungary Applications | Iceland Patents | Iceland Applications | Ireland Patents | Ireland Applications | Italy Patents | Italy Applications | Latvia Patents | Latvia Applications | Lithuania Patents | Lithuania Applications | Luxembourg Patents | Luxembourg Applications | Malta Patents | Monaco Patents | Montenegro Patents | Montenegro Applications | Netherlands Patents | Netherlands Applications | Norway Patents | Norway Applications | Poland Patents | Poland Applications | Portugal Patents | Portugal Applications | Republic of Moldova Patents | Republic of Moldova Applications | Romania Patents | Romania Applications | San Marino Patents | San Marino Applications | Serbia Patents | Serbia Applications | Slovakia Patents | Slovakia Applications | Slovenia Patents | Spain Patents | Spain Applications | Sweden Patents | Sweden Applications | Switzerland Patents | Switzerland Applications | Ukraine Patents | Yugoslavia/Serbia and Montenegro Patents | Yugoslavia/Serbia and Montenegro Applications | Armenia Patents | Australia Patents | Australia Applications | Cyprus Patents | Gulf Cooperation Council Patents | Hong Kong Patents | India Patents | India Applications | Indonesia Patents | Indonesia Applications | Israel Patents | Israel Applications | Jordan Patents | Jordan Applications | Kyrgyzstan Patents | Macao Applications | Malaysia Patents | Mongolia Patents | New Zealand Patents | Philippines Patents | Philippines Applications | Saudi Arabia Patents | Saudi Arabia Applications | Singapore Patents | Singapore Applications | Taiwan Patents | Taiwan Applications | Tajikistan Patents | Tajikistan Applications | Thailand Patents | Thailand Applications | Uzbekistan Patents | Vietnam Patents | Algeria Patents | ARIPO Patents | ARIPO Applications | Egypt Patents | Kenya Patents | Malawi Patents | Morocco Patents | Morocco Applications | OAPI Patents | South Africa Patents | Tunisia Applications | Zambia Patents | Zimbabwe Patents | EAPO Patents | EAPO Applications | Georgia Patents | Georgia Applications | Kazakhstan Patents | Kazakhstan Applications | Russia Patents | Russia Applications | Turkey Patents | Turkey Applications

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De-Dup: None | Relevance Cut-off: None | Sort: Relevance

Main Concept: Text

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application: 1-20. (Canceled) Please add the following new claims: 21. (New) A system, comprising: memory; machine-readable instructions; and one or more processors to execute the machine-readable instructions to:receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle; determine, by performing at least one of a verification process or an authentication process in response to the request, whether the request is authorized to access the user profile; in response to determining that the request is authorized to access the user profile, determine one or more requested modifications to at least one of the one or more preferences; andin response to the one or more requested modifications, create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications. 22. (New) The system of claim 21, wherein the one or more processors are to

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execute the machine-readable instructions to transmit the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to the transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle. 23. (New) The system of claim 22, wherein the one or more processors are to execute the machine-readable instructions to determine whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile. 24. (New) The system of claim 23, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to overwrite conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences. 25. (New) The system of claim 23, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to perform a reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences. 26. (New) The system of claim 21, wherein the one or more processors are to perform both the verification process and the authentication process, and wherein the one or more processors are to determine that the request is authorized to access the user profile in response to successfully verifying the request via the verification process and successfully authenticating the request via the authentication process. 27. (New) The system of claim 21, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device. 28. (New) The system of claim 21, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device. 29. (New) The system of claim 21, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template. 30. (New) The system of claim 29, wherein the template is a global standard template that is common among at least two vehicle manufacturers. 31. (New) A method, comprising: receiving a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle; determining, by performing at least one of a verification process or an authentication process via one or more processors in response to the request, whether the request is authorized to access the user profile; in response to determining that the request is authorized to access the user profile, determining, via the one or more processors, one or more requested modifications to at least one of the one or more preferences; andin response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications. 32. (New) The method of claim 31, further comprising transmitting the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to the transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle. 33. (New) The method of claim 32, further comprising determining whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile. 34. (New) The method of claim 33, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the method further comprises overwriting conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences. 35. (New) The method of claim 33, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the method further comprises performing a reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences. 36. (New) The method of claim 31, further comprising performing both the verification process and the authentication process, wherein determining that the request is authorized to access the user profile includes successfully verifying the request via the verification process and successfully authenticating the request via the authentication process. 37. (New) The method of claim 31, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device. 38. (New) The method of claim 31, wherein the

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authentication process includes an exchange of security keys between the vehicle and a mobile device. 39. (New) The method of claim 31, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template. 40. (New) The method of claim 39, wherein the template is a global standard template that is common among at least two vehicle manufacturers. No new matter has been added.

Concept Modifiers: None

Filters: None

Content: Non-Patent Literature (24)

IEEE Xplore Publications: IEEE Periodicals | IEEE Xplore Publications: IEEE Conferences | IEEE Xplore Publications: IEEE Standards | IEEE Xplore Publications: IEEE Early Access | IEEE Xplore Publications: SMPTE Periodicals | IEEE Xplore Publications: SMPTE Conferences | IEEE Xplore Publications: SMPTE Standards | IEEE Xplore Publications: MIT Press eBooks | IEEE Xplore Publications: Wiley-IEEE eBooks | IEEE Xplore Publications: IBM Periodicals | IEEE Xplore Publications: URSI Periodicals | IEEE Xplore Publications: VDE Conferences | IEEE Xplore Publications: Periodicals from China | IEEE Xplore Publications: Ericsson Technology Review | IP.com Prior Art Database: The IP.com Journal | IP.com Prior Art Database: Internet Society RFC | IP.com Prior Art Database: IBM TDB Archive | IP.com Prior Art Database: Legacy Journals | IP.com Prior Art Database: Software Patent Institute | OnePetro.org: Periodicals at OnePetro.org | OnePetro.org: Conferences at OnePetro.org | Other Literature: IBM Redbooks | Other Literature: PubMed Central | Other Literature: arXiv.org

2 **2023-12-20 19:26 UTC | 4,260,439 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application: 1-20. (Canceled) Please add the following new claims: 21. (New) A system, comprising: memory; machine-readable instructions; and one or more processors to execute the machine-readable instructions to:receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle; determine, by performing at least one of a verification process or an authentication process in response to the request, whether the request is authorized to access the user profile; in response to determining that the request is authorized to access the user profile, determine one or more requested modifications to at least one of the one or more preferences; andin response to the one or more requested modifications, create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications. 22. (New) The system of claim 21, wherein the one or more processors are to execute the machine-readable instructions to transmit the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to the transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle. 23. (New) The system of claim 22, wherein the one or more processors are to execute the machine-readable instructions to determine whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile. 24. (New) The system of claim 23, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to overwrite conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences. 25. (New) The system of claim 23, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to perform a

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reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences. 26. (New) The system of claim 21, wherein the one or more processors are to perform both the verification process and the authentication process, and wherein the one or more processors are to determine that the request is authorized to access the user profile in response to successfully verifying the request via the verification process and successfully authenticating the request via the authentication process. 27. (New) The system of claim 21, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device. 28. (New) The system of claim 21, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device. 29. (New) The system of claim 21, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template. 30. (New) The system of claim 29, wherein the template is a global standard template that is common among at least two vehicle manufacturers. 31. (New) A method, comprising: receiving a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle; determining, by performing at least one of a verification process or an authentication process via one or more processors in response to the request, whether the request is authorized to access the user profile; in response to determining that the request is authorized to access the user profile, determining, via the one or more processors, one or more requested modifications to at least one of the one or more preferences; andin response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications. 32. (New) The method of claim 31, further comprising transmitting the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to the transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle. 33. (New) The method of claim 32, further comprising determining whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile. 34. (New) The method of claim 33, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the method further comprises overwriting conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences. 35. (New) The method of claim 33, wherein, in response to determining the presence of one or more conflicts between the updated preferences and the local preferences, the method further comprises performing a reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences. 36. (New) The method of claim 31, further comprising performing both the verification process and the authentication process, wherein determining that the request is authorized to access the user profile includes successfully verifying the request via the verification process and successfully authenticating the request via the authentication process. 37. (New) The method of claim 31, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device. 38. (New) The method of claim 31, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device. 39. (New) The method of claim 31, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template. 40. (New) The method of claim 39, wherein the template is a global standard template that is common among at least two vehicle manufacturers. No new matter has been added.

Concept Modifiers: None

Filters: None

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Page 364 of 472

Bibliographic Data

Application No: 17/515,961

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /STACY WHITMORE/ Examiner's Signature | Initials

Title: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/01/2021	716	2851	50365-0005002
RULE			

APPLICANTS

AutoConnect Holdings LLC, Wellesly, MA,

INVENTORS

Christopher P. Ricci, Saratoga, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 17233412 04/16/2021 PAT 11163931

17233412 is a CON of 16247128 01/14/2019ABN

16247128 is a CON of 15288244 10/07/2016ABN

15288244 is a CON of 15099413 04/14/2016ABN

15288244 is a CON of 14831696 08/20/2015 PAT 9545930

15099413 is a CON of 14252871 04/15/2014ABN

15288244 is a CON of 14252865 04/15/2014ABN

15288244 is a CON of 14252868 04/15/2014ABN

15288244 is a CON of 14252863 04/15/2014ABN

14831696 is a CON of 14252876 04/15/2014ABN

14252876 has PRO of 61926749 01/13/2014

14252868 has PRO of 61926749 01/13/2014

14252871 has PRO of 61926749 01/13/2014

14252865 has PRO of 61926749 01/13/2014

14252863 has PRO of 61926749 01/13/2014

14252868 has PRO of 61924572 01/07/2014

14252871 has PRO of 61924572 01/07/2014

14252863 has PRO of 61924572 01/07/2014

14252876 has PRO of 61924572 01/07/2014

14252865 has PRO of 61924572 01/07/2014

14252863 has PRO of 61904205 11/14/2013

14252868 has PRO of 61904205 11/14/2013

14252876 has PRO of 61904205 11/14/2013

14252871 has PRO of 61904205 11/14/2013

14252865 has PRO of 61904205 11/14/2013

14252865 has PRO of 61891217 10/15/2013

14252863 has PRO of 61891217 10/15/2013

14252868 has PRO of 61891217 10/15/2013

14252871 has PRO of 61891217 10/15/2013

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14252876 has PRO of 61865954 08/14/2013

14252868 has PRO of 61811981 04/15/2013

14252871 has PRO of 61811981 04/15/2013

14252876 has PRO of 61811981 04/15/2013

14252865 has PRO of 61811981 04/15/2013

14252863 has PRO of 61811981 04/15/2013

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

11/12/2021

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

ADDRESS

Avantech Law, LLP

80 S 8th St, Suite 900

Minneapolis, MN 55402

UNITED STATES

FILING FEE RECEIVED

$1,040

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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NOTICE OF ALLOWANCE AND FEE(S) DUE

192827 7590 01/10/2024

Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

EXAMINER
WHITMORE, STACY

ART UNIT	PAPER NUMBER
2851	

DATE MAILED: 01/10/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/515,961	11/01/2021	Christopher P. Ricci	50365-0005002	5218

TITLE OF INVENTION: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	04/10/2024

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

192827 7590 01/10/2024

Avantech Law, LLP
80 S 8th St, Suite 900
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 the USPTO patent electronic filing system 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.
17/515,961	11/01/2021	Christopher P. Ricci	50365-0005002	5218

TITLE OF INVENTION: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	04/10/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
WHITMORE, STACY	2851	716-139000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

TOYOTA EXHIBIT 1002
Page 369 of 472

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/515,961	11/01/2021	Christopher P. Ricci	50365-0005002	5218

192827 7590 01/10/2024

Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

EXAMINER	
WHITMORE, STACY	
ART UNIT	PAPER NUMBER
2851	

DATE MAILED: 01/10/2024

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/ owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 17/515,961	Applicant(s) Ricci, Christopher P.	
	Examiner STACY WHITMORE	Art Unit 2851	AIA (FITF) Status Yes

-- 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 amendment 7/20/2023.
   ☐ 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 21-40 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

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

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/STACY WHITMORE/
Primary Examiner, Art Unit 2851

NOTICE OF ALLOWANCE

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

2. Claims 21-40 are allowed over the prior art of record.

3. The following is an examiner's statement of reasons for allowance: The prior art of record fails to disclose either singularly or in combination the invention as claimed including:

21. (New) A system, comprising:

memory;

machine-readable instructions; and

one or more processors to execute the machine-readable instructions to:

receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle;

determine, by performing at least one of a verification process or an authentication process in response to the request, whether the request is authorized to access the user profile;

in response to determining that the request is authorized to access the user profile, determine one or more requested modifications to at least one of the one or more preferences; and

in response to the one or more requested modifications, create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

31. (New) A method, comprising:

receiving a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle;

determining, by performing at least one of a verification process or an authentication process via one or more processors in response to the request, whether the request is authorized to access the user profile;

in response to determining that the request is authorized to access the user profile, determining, via the one or more processors, one or more requested modifications to at least one of the one or more preferences; and

in response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

4. Prior art comprising Penilla (US Patent 9,229,905) discloses user settings at a vehicle, but does not disclose either singularly or in combination the steps of claims 21 and 31 of receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle and in response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile

including one or more updated preferences based on the one or more requested modifications.

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."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to STACY WHITMORE whose telephone number is (571)272-1685. The examiner can normally be reached M-F 7:30AM - 4:00 PM.

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, Jack Chiang can be reached on (571)-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and

https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/STACY WHITMORE/
Primary Examiner, Art Unit 2851
December 21, 2023

TO: USPTO@avantechlaw.com,conley@avantechlaw.com
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - e-Postcard Notification for Customer Number 192827

Wed Jan 17 05:35:18 EST 2024

Dear Patent Center Customer:

Correspondence Address:

Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis,MINNESOTA,55402
UNITED STATES

An email notification regarding the correspondence was sent to the following email address(es) associated with customer number 192827:

USPTO@avantechlaw.com
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This is a courtesy reminder that new correspondence is available for the application. If you have not done so already, please review the correspondence listed below. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Application	Document	Mailroom Date	Attorney Docket No.
17515961	NOA	01/10/2024	50365-0005002
17515961	892	01/10/2024	50365-0005002

To view your correspondence online, please sign in to Patent Center and then select Workbench/View correspondence. Or to update your email addresses, select Manage/Manage customer numbers.

If you have any questions, please contact the Patent Electronic Business Center (EBC) at ebc@uspto.gov or 866-217-9197 Monday – Friday, 6 a.m. to midnight ET.

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Sincerely,

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/515,961	**02/23/2024 12:10:22 PM Z ET**	**50365-0005002**

Title of Invention

ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5218	FILED BY	Robert Conley
PATENT CENTER #	64425343	FILING DATE	11/01/2021
CUSTOMER #	192827	FIRST NAMED INVENTOR	Christopher P. Ricci
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
17515961_RCE.pdf	3	Request for Continued Examination (RCE)	1618 KB
17515961_IDS2.pdf	15	Information Disclosure Statement (IDS) Form (SB08)	1237 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
17515961_RCE.pdf	E8D44A7B1716ADCE3ECACB4F4F95DBBBDB3D6AE32C5F68E A28ECE8FF237A1574A4FD4839B8C24AF780C3C47D0296DF38 66F1E1EC1DA6812E3366C0777F9804C9
17515961_IDS2.pdf	6055DD5BC81A3AC867C815D4E5A88A0E5039F45AFE56B930

A39C898E4B11269315945F43ED79FECF71664BB80988E9B167
A7420F53CE99217C35391D16F167F0

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.

PTO/SB/30EFS (01-22)
Approved for use through 05/31/2024. 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	17/515,961	Filing Date	2021-11-01	Docket Number (if applicable)	50365-0005002	Art Unit	2851
First Named Inventor	Christopher P. Ricci			Examiner Name	Stacy Whitmore		

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 605022

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (01-22)
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Signature of Registered U.S. Patent Practitioner			
Signature	/Robert A. Conley/	Date (YYYY-MM-DD)	2024-02-23
Name	Robert A. Conley	Registration Number	55846

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.

PTO/SB/08a (01-22)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17515961
Filing Date	2021-11-01
First Named Inventor	Christopher P. Ricci
Art Unit	2851
Examiner Name	Stacy Whitmore
Attorney Docket Number	50365-0005002

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	6310542	B1	2001-10-30	Gehlot	
	2	6373148	B1	2002-04-16	Daiss et al.	
	3	6454178	B1	2002-09-24	Fusco et al.	
	4	6484082	B1	2002-11-19	Millsap et al.	
	5	6762684	B1	2004-07-13	Camhi	
	6	6944533	B2	2005-09-13	Kozak et al.	
	7	7117075	B1	2006-10-03	Larschan et al.	
	8	7164117	B2	2007-01-16	Breed et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	Christopher P. Ricci
	Art Unit	2851
	Examiner Name	Stacy Whitmore
	Attorney Docket Number	50365-0005002

	9	7233861	B2	2007-06-19	Van Buer et al.	
	10	7650234	B2	2010-01-19	Obradovich et al.	
	11	8140358	B1	2012-03-20	Ling et al.	
	12	8463488	B1	2013-06-11	Hart	
	13	8527146	B1	2013-09-03	Jackson et al.	
	14	8621645	B1	2013-12-31	Spackman	
	15	8660734	B2	2014-02-25	Zhu et al.	
	16	8977408	B1	2015-03-10	Cazanas et al.	

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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	20020097145	A1	2002-07-25	Tumey et al.	

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	Attorney Docket Number	50365-0005002

	2	20020133716	A1	2002-09-19	Harif	
	3	20020152010	A1	2002-10-17	Colmenarez et al.	
	4	20030097477	A1	2003-05-22	Vossler	
	5	20030101451	A1	2003-05-29	Bentolila et al.	
	6	20030158638	A1	2003-08-21	Yakes et al.	
	7	20030222758	A1	2003-12-04	Willats et al.	
	8	20040153356	A1	2004-08-05	Lockwood et al.	
	9	20040217850	A1	2004-11-04	Perttunen et al.	
	10	20040225557	A1	2004-11-11	Phelan et al.	
	11	20050024189	A1	2005-02-03	Weber	
	12	20050086051	A1	2005-04-21	Brulle-Drews	

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	13	20050144048	A1	2005-06-30	Belanger et al.	
	14	20050261815	A1	2005-11-24	Cowelchuk et al.	
	15	20050283284	A1	2005-12-22	Grenier et al.	
	16	20060036358	A1	2006-02-16	Hale et al.	
	17	20060042846	A1	2006-03-02	Kojori et al.	
	18	20060059229	A1	2006-03-16	Bain et al.	
	19	20060082434	A1	2006-04-20	Brey	
	20	20060175403	A1	2006-08-10	Fossen McConnell et al.	
	21	20060217864	A1	2006-09-28	Johnson et al.	
	22	20060293908	A1	2006-12-28	Becker et al.	
	23	20070010942	A1	2007-01-11	Bill	

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	24	20070038345	A1	2007-02-15	Heider et al.	
	25	20070158128	A1	2007-07-12	Gratz et al.	
	26	20070200663	A1	2007-08-30	White et al.	
	27	20070241861	A1	2007-10-18	Venkatanna et al.	
	28	20070250920	A1	2007-10-25	Lindsay	
	29	20080119212	A1	2008-05-22	Himmelstein	
	30	20080164985	A1	2008-07-10	Iketani et al.	
	31	20080189110	A1	2008-08-07	Freeman et al.	
	32	20080228358	A1	2008-09-18	Wang et al.	
	33	20080245598	A1	2008-10-09	Gratz et al.	
	34	20080252487	A1	2008-10-16	McClellan et al.	

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	35	20080269958	A1	2008-10-30	Filev et al.	
	36	20080300778	A1	2008-12-04	Kuznetsov	
	37	20080319602	A1	2008-12-25	McClellan et al.	
	38	20090119164	A1	2009-05-07	Colson et al.	
	39	20090195370	A1	2009-08-06	Huffman et al.	
	40	20090210143	A1	2009-08-20	Seltzer et al.	
	41	20090210357	A1	2009-08-20	Pudar et al.	
	42	20090216935	A1	2009-08-27	Flick	
	43	20090275321	A1	2009-11-05	Crowe	
	44	20090284359	A1	2009-11-19	Huang et al.	
	45	20090319181	A1	2009-12-24	Khosravy et al.	

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	46	20100023223	A1	2010-01-28	Huang et al.	
	47	20100036560	A1	2010-02-11	Wright et al.	
	48	20100076646	A1	2010-03-25	Basir et al.	
	49	20100087987	A1	2010-04-08	Huang et al.	
	50	20100097178	A1	2010-04-22	Pisz et al.	
	51	20100127847	A1	2010-05-27	Evans et al.	
	52	20100137037	A1	2010-06-03	Basir	
	53	20100145700	A1	2010-06-10	Kennewick et al.	
	54	20100152976	A1	2010-06-17	White et al.	
	55	20100222939	A1	2010-09-02	Namburu et al.	
	56	20100227555	A1	2010-09-09	Zinn et al.	

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	Attorney Docket Number	50365-0005002

	57	20100292867	A1	2010-11-18	Bohm et al.	
	58	20110077855	A1	2011-03-31	Sumizawa	
	59	20110078024	A1	2011-03-31	Messier et al.	
	60	20110106375	A1	2011-05-05	Gurusamy Sundaram	
	61	20110106436	A1	2011-05-05	Bill	
	62	20110137520	A1	2011-06-09	Rector et al.	
	63	20110137741	A1	2011-06-09	Omer et al.	
	64	20110153191	A1	2011-06-23	Dhanani	
	65	20110193707	A1	2011-08-11	Ngo	
	66	20110210867	A1	2011-09-01	Benedikt	
	67	20110219105	A1	2011-09-08	Kryze et al.	

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	Examiner Name	Stacy Whitmore
	Attorney Docket Number	50365-0005002

	68	20110221656	A1	2011-09-15	Haddick et al.	
	69	20110251734	A1	2011-10-13	Schepp et al.	
	70	20110300831	A1	2011-12-08	Chin	
	71	20120053793	A1	2012-03-01	Sala et al.	
	72	20120101690	A1	2012-04-26	Srinivasan et al.	
	73	20120109451	A1	2012-05-03	Tan	
	74	20120110356	A1	2012-05-03	Yousefi et al.	
	75	20120115446	A1	2012-05-10	Gautama et al.	
	76	20120143391	A1	2012-06-07	Gee	
	77	20120149341	A1	2012-06-14	Tadayon et al.	
	78	20120188876	A1	2012-07-26	Chow et al.	

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	Attorney Docket Number	50365-0005002

	79	20120226413	A1	2012-09-06	Chen et al.	
	80	20120269253	A1	2012-10-25	Daecke	
	81	20130005414	A1	2013-01-03	Bindra et al.	
	82	20130079964	A1	2013-03-28	Sukkarie et al.	
	83	20130116835	A1	2013-05-09	Nowell	
	84	20130116882	A1	2013-05-09	Link, II et al.	
	85	20130173358	A1	2013-07-04	Pinkus	
	86	20130197796	A1	2013-08-01	Obradovich et al.	
	87	20130204457	A1	2013-08-08	King et al.	
	88	20130226365	A1	2013-08-29	Brozovich	
	89	20130261966	A1	2013-10-03	Wang et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17515961
	Filing Date	2021-11-01
	First Named Inventor	Christopher P. Ricci
	Art Unit	2851
	Examiner Name	Stacy Whitmore
	Attorney Docket Number	50365-0005002

	90	20130274997	A1	2013-10-17	Chien	
	91	20130311038	A1	2013-11-21	Kim et al.	
	92	20140188533	A1	2014-07-03	Davidson	
	93	20140195272	A1	2014-07-10	Sadiq et al.	
	94	20140200737	A1	2014-07-17	Lortz et al.	
	95	20140221781	A1	2014-08-07	Schrauf et al.	
	96	20140222298	A1	2014-08-07	Gurin	
	97	20140223384	A1	2014-08-07	Graumann	
	98	20140257627	A1	2014-09-11	Hagan, Jr. et al.	
	99	20140277843	A1	2014-09-18	Langlois et al.	
	100	20140282931	A1	2014-09-18	Protopapas	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17515961
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	First Named Inventor	Christopher P. Ricci
	Art Unit	2851
	Examiner Name	Stacy Whitmore
	Attorney Docket Number	50365-0005002

	101	20150006012	A1	2015-01-01	Kammel et al.	
	102	20150088337	A1	2015-03-26	Toohy et al.	
	103	20160173568	A1	2016-06-16	Penilla et al.	
	104	20160306615	A1	2016-10-20	Ricci	
	105	20190356738	A1	2019-11-21	Haidar 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]	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							☐

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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		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17515961
	Filing Date	2021-11-01
	First Named Inventor	Christopher P. Ricci
	Art Unit	2851
	Examiner Name	Stacy Whitmore
	Attorney Docket Number	50365-0005002

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	17515961
Filing Date	2021-11-01
First Named Inventor	Christopher P. Ricci
Art Unit	2851
Examiner Name	Stacy Whitmore
Attorney Docket Number	50365-0005002

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	/Robert A. Conley/	Date (YYYY-MM-DD)	2024-02-23
Name/Print	Robert A. Conley	Registration Number	55846

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.

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 #
17/515,961	**02/23/2024 12:10:22 PM Z ET**	**50365-0005002**

Title of Invention

ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5218	FILED BY	Robert Conley
PATENT CENTER #	64425343	AUTHORIZED BY	-
CUSTOMER #	192827	FILING DATE	11/01/2021
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Christopher P. Ricci

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 605022	**E20242MC11196201**	**Robert Conley**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2801	REQUEST FOR CONTINUED EXAMINATION (RCE) - 1ST REQUEST (SEE 37 CFR 1.114)	544.00	1	544.00
			TOTAL AMOUNT:	**$544.00**

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

192827 7590 03/06/2024

Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

EXAMINER
WHITMORE, STACY

ART UNIT	PAPER NUMBER
2851	

DATE MAILED: 03/06/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/515,961	11/01/2021	Christopher P. Ricci	1007-035USU1	5218

TITLE OF INVENTION: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	06/06/2024

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

192827 7590 03/06/2024

Avantech Law, LLP
80 S 8th St, Suite 900
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 the USPTO patent electronic filing system 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.
17/515,961	11/01/2021	Christopher P. Ricci	1007-035USU1	5218

TITLE OF INVENTION: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	06/06/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
WHITMORE, STACY	2851	716-139000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

TOYOTA EXHIBIT 1002
Page 401 of 472

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/515,961	11/01/2021	Christopher P. Ricci	1007-035USU1	5218

192827 7590 03/06/2024

Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

EXAMINER	
WHITMORE, STACY	
ART UNIT	PAPER NUMBER
2851	

DATE MAILED: 03/06/2024

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/ owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 17/515,961	Applicant(s) Ricci, Christopher P.	
	Examiner STACY WHITMORE	Art Unit 2851	AIA (FITF) Status Yes

-- 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 RCE filed 2/23/2024.
   ☐ 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 21-40 . 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 2/23/2024.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/STACY WHITMORE/
Primary Examiner, Art Unit 2851

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/515,961	Ricci, Christopher P.
	Examiner	**Art Unit**
	STACY WHITMORE	2851

CPC							
Symbol						**Type**	**Version**
G06F	/	30	/	392		F	2020-01-01
G06F	/	30	/	39		I	2020-01-01
G06F	/	30	/	398		I	2020-01-01
G06F	/	21	/	32		I	2013-01-01
G06F	/	21	/	44		I	2013-01-01
H05K	/	3	/	0005		I	2013-01-01
G06F	/	21	/	31		I	2013-01-01
B60K	/	35	/	65		A	2024-01-01
B60K	/	2360	/	741		A	2024-01-01

CPC Combination Sets								
Symbol						**Type**	**Set**	**Ranking**	**Version**
	/		/						

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	21	
/STACY WHITMORE/ Primary Examiner, Art Unit 2851	28 February 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	21	8B

U.S. Patent and Trademark Office — Part of Paper No.: 20240228

TOYOTA EXHIBIT 1002
Page 405 of 472

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/515,961	Ricci, Christopher P.
	Examiner	**Art Unit**
	STACY WHITMORE	2851

INTERNATIONAL CLASSIFICATION				
CLAIMED				
G06F30/39	/	30	/	39
G06F30/398	/	30	/	398
G06F21/32	/	21	/	32
G06F21/44	/	21	/	44

NON-CLAIMED				
G06F30/392	/	30	/	392
H05K3/00	/	3	/	00
G06F21/31	/	21	/	31

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/STACY WHITMORE/ Primary Examiner, Art Unit 2851	28 February 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	21	8B

U.S. Patent and Trademark Office

Part of Paper No.: 20240228

TOYOTA EXHIBIT 1002
Page 406 of 472

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/515,961	Ricci, Christopher P.
	Examiner	**Art Unit**
	STACY WHITMORE	2851

☐ 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
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-	2	-	11	-	20	9	29	18	38						
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NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/STACY WHITMORE/ Primary Examiner, Art Unit 2851	28 February 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	21	8B

U.S. Patent and Trademark Office

Part of Paper No.: 20240228

TOYOTA EXHIBIT 1002
Page 407 of 472

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/515,961	Ricci, Christopher P.
	Examiner	Art Unit
	STACY WHITMORE	2851

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Symbol	**Date**	**Examiner**
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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.

/S.W/ Primary Examiner, Art Unit 2851	

TOYOTA EXHIBIT 1002
Page 408 of 472

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/515,961	Ricci, Christopher P.
	Examiner	**Art Unit**
	STACY WHITMORE	2851

Search Notes		
Search Notes	**Date**	**Examiner**
PE2E search with limits to CPC - see attached	02/03/2023	SW
inventor and applicant search - see attached	02/03/2023	SW
IP.com search - see attached	02/03/2023	SW
PE2E search with limits to CPC - see attached	12/20/2023	SW
inventor and applicant search - see attached	12/20/2023	SW
PE2E search with limits to CPC - see attached	12/21/2023	SW
IP.com search	12/20/2023	SW
updated PE2E search with limits to CPC - see attached	02/28/2024	SW

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	see attached us, uspgpub text search	12/21/2023	SW
	see attached us, uspgpub text search	02/28/2024	SW

/S.W/ Primary Examiner, Art Unit 2851	

TOYOTA EXHIBIT 1002
Page 409 of 472

Bibliographic Data

Application No: 17/515,961

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /STACY WHITMORE/ Examiner's Signature | Initials

Title: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/01/2021	716	2851	50365-0005002
RULE			

APPLICANTS

AutoConnect Holdings LLC, Wellesly, MA,

INVENTORS

Christopher P. Ricci, Saratoga, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 17233412 04/16/2021 PAT 11163931

17233412 is a CON of 16247128 01/14/2019ABN

16247128 is a CON of 15288244 10/07/2016ABN

15288244 is a CON of 15099413 04/14/2016ABN

15288244 is a CON of 14831696 08/20/2015 PAT 9545930

15099413 is a CON of 14252871 04/15/2014ABN

15288244 is a CON of 14252865 04/15/2014ABN

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14831696 is a CON of 14252876 04/15/2014ABN

14252876 has PRO of 61926749 01/13/2014

14252868 has PRO of 61926749 01/13/2014

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14252863 has PRO of 61811981 04/15/2013

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

11/12/2021

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

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Avantech Law, LLP

80 S 8th St, Suite 900

Minneapolis, MN 55402

UNITED STATES

FILING FEE RECEIVED

$1,040

PE2E SEARCH - Search History (Prior Art)

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L40	494	((("RICCI") near3 ("Christopher"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/12/20 02:01 PM
L41	49	((("AUTOCONNECT") near3 ("HOLDINGS") near3 ("LLC"))).AS,AANM.	(USPAT)	OR	ON	ON	2023/12/20 02:01 PM
L42	49	("13678673" OR "13678691" OR "13678710" OR "13678722" OR "13678726" OR "13678735" OR "13678745" OR "13678753" OR "13678762" OR "13678773" OR "13679204" OR "13679234" OR "13679292" OR "13679350" OR "13679358" OR "13679363" OR "13679368" OR "13679369" OR "13679400" OR "13679412" OR "13679441" OR "13679443" OR "13679459" OR "13679476" OR "13679676" OR "13679680" OR "13679815" OR "13679857" OR "13679864" OR "13679875" OR "13679878" OR "13679887" OR "20020184091" OR "20040014423" OR "20040039504" OR "20060029015" OR	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/20 02:01 PM

		"20060053296" OR "20070100514" OR "20090299572" OR "20090305667" OR "20100023204" OR "20100162319" OR "20100318794" OR "20110246301" OR "20120116609" OR "20120231738" OR "20130030645" OR "20130104203" OR "20130106581" OR "20130145360" OR "20130151088" OR "20130167159" OR "20130241720" OR "20130245882" OR "20130282946" OR "20130293364" OR "20130293452" OR "20140028542" OR "20140189807" OR "20140309892" OR "20140310031" OR "20140310788" OR "20160050201" OR "20160247377" OR "20170272421" OR "20180288029" OR "20200008060" OR "20200013492" OR "5838251" OR "6124805" OR "6542794" OR "6587755" OR "7404086" OR "8187182" OR "8402268" OR "8713704" OR "8850535" OR "8979159" OR "9324234" OR "9330567" OR "9545930").pn.					
L43	2	"11163931"	(USPAT)	OR	ON	ON	2023/12/20 02:01 PM
L44	2	"20130030645" "20040148526"	(US-PGPUB)	OR	ON	ON	2023/12/20 02:01 PM
L45	31	(Artificial Intelligence) Publication Status Unavailable from Similarity Search Text: (US-20220058329-A1 OR US-20210256191-A1 OR US-11163931-	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO))	OR	ON	ON	2023/12/20 02:02 PM

		B2 OR US-20190392107-A1 OR US-20160162678-A1 OR US-10446018-B1 OR US-20210064393-A1 OR CN-110341476-B OR US-20170090741-A1 OR KR-20170017947-A OR CN-106471462-B OR EP-3617925-A1 OR CN-106471462-A OR JP-2018513427-A OR AU-2016266750-A1 OR WO-2016191064-A1 OR EP-3304406-A1 OR US-9608976-B2 OR EP-3304406-B1 OR KR-101984251-B1 OR AU-2016266750-B2 OR US-20170099279-A1 OR CA-2953587-C OR EP-3133549-A1 OR KR-20200063291-A OR US-20140253415-A1 OR US-20180088661-A1 OR CN-106467075-A OR DE-102022108037-A1 OR WO-2023193985-A1 OR US-20150321557-A1 OR CN-106467075-B OR DE-102017218100-A1 OR EP-3694739-B1 OR CN-108284839-A OR WO-2016060907-A1 OR SE-1350431-A1 OR CN-104870290-B OR US-20160107577-A1 OR WO-2019072573-A1 OR EP-3694739-A1 OR CN-104870290-A OR WO-2014116898-A1 OR US-9552830-B2 OR SE-537931-C2 OR EP-2983956-B1 OR EP-2983956-A1 OR US-9134955-B2 OR WO-2014168555-A1 OR US-20140207338-A1).did.					
L46	1	"9229905".pn.	(USPAT)	OR	ON	ON	2023/12/20 02:17 PM
L47	0	(request access (user OR driver) profile stor$3 vehicvle preference	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO;	AND	ON	ON	2023/12/21 08:55 AM

		(function OR setting) (verify OR verifying OR verified OR verification OR authenticat$4) (modif$6) updat$4)	JPO; DERWENT; IBM_TDB)				
L48	37951	(request access (user OR driver) profile stor$3 vehicle preference (function OR setting) (verify OR verifying OR verified OR verification OR authenticat$4) (modif$6) updat$4)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2023/12/21 08:55 AM
L49	1514	L48 L24	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2023/12/21 08:55 AM
L50	1	("20160306615").did.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L51	69170	(G06F30/392 OR G06F30/398 OR H05K3/0005 OR G06F21/32 OR G06F30/39 OR G06F21/44 OR G06F21/31 OR B60K2370/741 OR B60K2370/73).cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L52	10904	vehicle AND (lock$4 AND unlock$4) SAME (driver person individual user) SAME (permission permit permitted permitting allow allowed allowing give given giving) SAME (second another)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/28 07:34 AM
L53	499	L3 AND L2	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/28 07:34 AM
L54	39	("2003/0046552").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/28 07:34 AM
L55	1	"20150363986".did.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L56	109	("2015/0363986").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/28 07:34 AM
L57	494	((("RICCI") near3 ("Christopher"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/02/28 07:34 AM

L58	49	((("AUTOCONNECT") near3 ("HOLDINGS") near3 ("LLC"))).AS,AANM.	(USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L59	49	("13678673" OR "13678691" OR "13678710" OR "13678722" OR "13678726" OR "13678735" OR "13678745" OR "13678753" OR "13678762" OR "13678773" OR "13679204" OR "13679234" OR "13679292" OR "13679350" OR "13679358" OR "13679363" OR "13679368" OR "13679369" OR "13679400" OR "13679412" OR "13679441" OR "13679443" OR "13679459" OR "13679476" OR "13679676" OR "13679680" OR "13679815" OR "13679857" OR "13679864" OR "13679875" OR "13679878" OR "13679887" OR "20020184091" OR "20040014423" OR "20040039504" OR "20060029015" OR "20060053296" OR "20070100514" OR "20090299572" OR "20090305667" OR "20100023204" OR "20100162319" OR "20100318794" OR "20110246301" OR "20120116609" OR "20120231738" OR "20130030645" OR "20130104203" OR "20130106581" OR "20130145360" OR "20130151088" OR "20130167159" OR "20130241720" OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM

		"20130245882" OR "20130282946" OR "20130293364" OR "20130293452" OR "20140028542" OR "20140189807" OR "20140309892" OR "20140310031" OR "20140310788" OR "20160050201" OR "20160247377" OR "20170272421" OR "20180288029" OR "20200008060" OR "20200013492" OR "5838251" OR "6124805" OR "6542794" OR "6587755" OR "7404086" OR "8187182" OR "8402268" OR "8713704" OR "8850535" OR "8979159" OR "9324234" OR "9330567" OR "9545930").pn.					
L60	1	("20160306615").did.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L61	69170	(G06F30/392 OR G06F30/398 OR H05K3/0005 OR G06F21/32 OR G06F30/39 OR G06F21/44 OR G06F21/31 OR B60K2370/741 OR B60K2370/73).cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L62	10904	vehicle AND (lock$4 AND unlock$4) SAME (driver person individual user) SAME (permission permit permitted permitting allow allowed allowing give given giving) SAME (second another)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/28 07:34 AM
L63	499	L3 AND L2	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/28 07:34 AM
L64	39	("2003/0046552").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/28 07:34 AM

L65	1	"20150363986".did.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L66	109	("2015/0363986").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/28 07:34 AM
L67	494	((("RICCI") near3 ("Christopher"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/02/28 07:34 AM
L68	49	((("AUTOCONNECT") near3 ("HOLDINGS") near3 ("LLC"))).AS,AANM.	(USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L69	49	("13678673" OR "13678691" OR "13678710" OR "13678722" OR "13678726" OR "13678735" OR "13678745" OR "13678753" OR "13678762" OR "13678773" OR "13679204" OR "13679234" OR "13679292" OR "13679350" OR "13679358" OR "13679363" OR "13679368" OR "13679369" OR "13679400" OR "13679412" OR "13679441" OR "13679443" OR "13679459" OR "13679476" OR "13679676" OR "13679680" OR "13679815" OR "13679857" OR "13679864" OR "13679875" OR "13679878" OR "13679887" OR "20020184091" OR "20040014423" OR "20040039504" OR "20060029015" OR "20060053296" OR "20070100514" OR "20090299572" OR "20090305667" OR "20100023204" OR "20100162319" OR "20100318794" OR "20110246301" OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM

		"20120116609" OR "20120231738" OR "20130030645" OR "20130104203" OR "20130106581" OR "20130145360" OR "20130151088" OR "20130167159" OR "20130241720" OR "20130245882" OR "20130282946" OR "20130293364" OR "20130293452" OR "20140028542" OR "20140189807" OR "20140309892" OR "20140310031" OR "20140310788" OR "20160050201" OR "20160247377" OR "20170272421" OR "20180288029" OR "20200008060" OR "20200013492" OR "5838251" OR "6124805" OR "6542794" OR "6587755" OR "7404086" OR "8187182" OR "8402268" OR "8713704" OR "8850535" OR "8979159" OR "9324234" OR "9330567" OR "9545930").pn.					
L70	2	"11163931"	(USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L71	2	"20130030645" "20040148526"	(US-PGPUB)	OR	ON	ON	2024/02/28 07:34 AM
L72	1	("20160306615").did.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L73	69170	(G06F30/392 OR G06F30/398 OR H05K3/0005 OR G06F21/32 OR G06F30/39 OR G06F21/44 OR G06F21/31 OR B60K2370/741 OR B60K2370/73).cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L74	10904	vehicle AND (lock$4 AND unlock$4) SAME (driver person individual user) SAME	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/02/28 07:34 AM

		(permission permit permitted permitting allow allowed allowing give given giving) SAME (second another)	IBM_TDB)				
L75	499	L3 AND L2	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/28 07:34 AM
L76	39	("2003/0046552").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/28 07:34 AM
L77	1	"20150363986".did.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L78	109	("2015/0363986").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/28 07:34 AM
L79	494	((("RICCI") near3 ("Christopher"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/02/28 07:34 AM
L80	49	((("AUTOCONNECT") near3 ("HOLDINGS") near3 ("LLC"))).AS,AANM.	(USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L81	49	("13678673" OR "13678691" OR "13678710" OR "13678722" OR "13678726" OR "13678735" OR "13678745" OR "13678753" OR "13678762" OR "13678773" OR "13679204" OR "13679234" OR "13679292" OR "13679350" OR "13679358" OR "13679363" OR "13679368" OR "13679369" OR "13679400" OR "13679412" OR "13679441" OR "13679443" OR "13679459" OR "13679476" OR "13679676" OR "13679680" OR "13679815" OR "13679857" OR "13679864" OR "13679875" OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM

		"13679878" OR "13679887" OR "20020184091" OR "20040014423" OR "20040039504" OR "20060029015" OR "20060053296" OR "20070100514" OR "20090299572" OR "20090305667" OR "20100023204" OR "20100162319" OR "20100318794" OR "20110246301" OR "20120116609" OR "20120231738" OR "20130030645" OR "20130104203" OR "20130106581" OR "20130145360" OR "20130151088" OR "20130167159" OR "20130241720" OR "20130245882" OR "20130282946" OR "20130293364" OR "20130293452" OR "20140028542" OR "20140189807" OR "20140309892" OR "20140310031" OR "20140310788" OR "20160050201" OR "20160247377" OR "20170272421" OR "20180288029" OR "20200008060" OR "20200013492" OR "5838251" OR "6124805" OR "6542794" OR "6587755" OR "7404086" OR "8187182" OR "8402268" OR "8713704" OR "8850535" OR "8979159" OR "9324234" OR "9330567" OR "9545930").pn.					
L82	1	("20160306615").did.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L83	69170	(G06F30/392 OR G06F30/398 OR H05K3/0005 OR G06F21/32 OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM

		G06F30/39 OR G06F21/44 OR G06F21/31 OR B60K2370/741 OR B60K2370/73).cpc.					
L84	10904	vehicle AND (lock$4 AND unlock$4) SAME (driver person individual user) SAME (permission permit permitted permitting allow allowed allowing give given giving) SAME (second another)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/28 07:34 AM
L85	499	L3 AND L2	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/28 07:34 AM
L86	39	("2003/0046552").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/28 07:34 AM
L87	1	"20150363986".did.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L88	109	("2015/0363986").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/28 07:34 AM
L89	494	((("RICCI") near3 ("Christopher"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/02/28 07:34 AM
L90	49	((("AUTOCONNECT") near3 ("HOLDINGS") near3 ("LLC"))).AS,AANM.	(USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L91	49	("13678673" OR "13678691" OR "13678710" OR "13678722" OR "13678726" OR "13678735" OR "13678745" OR "13678753" OR "13678762" OR "13678773" OR "13679204" OR "13679234" OR "13679292" OR "13679350" OR "13679358" OR "13679363" OR "13679368" OR "13679369" OR "13679400" OR "13679412" OR "13679441" OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM

		"13679443" OR "13679459" OR "13679476" OR "13679676" OR "13679680" OR "13679815" OR "13679857" OR "13679864" OR "13679875" OR "13679878" OR "13679887" OR "20020184091" OR "20040014423" OR "20040039504" OR "20060029015" OR "20060053296" OR "20070100514" OR "20090299572" OR "20090305667" OR "20100023204" OR "20100162319" OR "20100318794" OR "20110246301" OR "20120116609" OR "20120231738" OR "20130030645" OR "20130104203" OR "20130106581" OR "20130145360" OR "20130151088" OR "20130167159" OR "20130241720" OR "20130245882" OR "20130282946" OR "20130293364" OR "20130293452" OR "20140028542" OR "20140189807" OR "20140309892" OR "20140310031" OR "20140310788" OR "20160050201" OR "20160247377" OR "20170272421" OR "20180288029" OR "20200008060" OR "20200013492" OR "5838251" OR "6124805" OR "6542794" OR "6587755" OR "7404086" OR "8187182" OR "8402268" OR "8713704" OR "8850535" OR "8979159" OR "9324234" OR					

		"9330567" OR "9545930").pn.					
L92	2	"11163931"	(USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L93	2	"20130030645" "20040148526"	(US-PGPUB)	OR	ON	ON	2024/02/28 07:34 AM
L94	31	(Artificial Intelligence) Similar to: 17/515,961 with 0 CPC Selections and 0 Text Selections Text: (US-20220058329-A1 OR US-20210256191-A1 OR US-11163931-B2 OR US-20190392107-A1 OR US-20160162678-A1 OR US-10446018-B1 OR US-20210064393-A1 OR CN-110341476-B OR US-20170090741-A1 OR KR-20170017947-A OR CN-106471462-B OR EP-3617925-A1 OR CN-106471462-A OR JP-2018513427-A OR AU-2016266750-A1 OR WO-2016191064-A1 OR EP-3304406-A1 OR US-9608976-B2 OR EP-3304406-B1 OR KR-101984251-B1 OR AU-2016266750-B2 OR US-20170099279-A1 OR CA-2953587-C OR EP-3133549-A1 OR KR-20200063291-A OR US-20140253415-A1 OR US-20180088661-A1 OR CN-106467075-A OR DE-102022108037-A1 OR WO-2023193985-A1 OR US-20150321557-A1 OR CN-106467075-B OR DE-102017218100-A1 OR EP-3694739-B1 OR CN-108284839-A OR WO-2016060907-A1 OR SE-1350431-A1 OR CN-104870290-B OR US-20160107577-A1 OR WO-2019072573-A1 OR EP-3694739-A1	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO))	OR	ON	ON	2024/02/28 07:34 AM

		OR CN-104870290-A OR WO-2014116898-A1 OR US-9552830-B2 OR SE-537931-C2 OR EP-2983956-B1 OR EP-2983956-A1 OR US-9134955-B2 OR WO-2014168555-A1 OR US-20140207338-A1).did.					
L95	1	"9229905".pn.	(USPAT)	OR	ON	ON	2024/02/28 07:34 AM
L96	0	(request access (user OR driver) profile stor$3 vehicvle preference (function OR setting) (verify OR verifying OR verified OR verification OR authenticat$4) (modif$6) updat$4)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2024/02/28 07:34 AM
L97	38795	(request access (user OR driver) profile stor$3 vehicle preference (function OR setting) (verify OR verifying OR verified OR verification OR authenticat$4) (modif$6) updat$4)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2024/02/28 07:34 AM
L98	1541	L48 L24	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2024/02/28 07:34 AM
L99	121	("20020097145" OR "20020133716" OR "20020152010" OR "20030097477" OR "20030101451" OR "20030158638" OR "20030222758" OR "20040153356" OR "20040217850" OR "20040225557" OR "20050024189" OR "20050086051" OR "20050144048" OR "20050261815" OR "20050283284" OR "20060036358" OR "20060042846" OR "20060059229" OR "20060082434" OR "20060175403" OR "20060217864" OR "20060293908" OR "20070010942" OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/28 07:34 AM

		"20070038345" OR "20070158128" OR "20070200663" OR "20070241861" OR "20070250920" OR "20080119212" OR "20080164985" OR "20080189110" OR "20080228358" OR "20080245598" OR "20080252487" OR "20080269958" OR "20080300778" OR "20080319602" OR "20090119164" OR "20090195370" OR "20090210143" OR "20090210357" OR "20090216935" OR "20090275321" OR "20090284359" OR "20090319181" OR "20100023223" OR "20100036560" OR "20100076646" OR "20100087987" OR "20100097178" OR "20100127847" OR "20100137037" OR "20100145700" OR "20100152976" OR "20100222939" OR "20100227555" OR "20100292867" OR "20110077855" OR "20110078024" OR "20110106375" OR "20110106436" OR "20110137520" OR "20110137741" OR "20110153191" OR "20110193707" OR "20110210867" OR "20110219105" OR "20110221656" OR "20110251734" OR "20110300831" OR "20120053793" OR "20120101690" OR "20120109451" OR "20120110356" OR "20120115446" OR "20120143391" OR "20120149341" OR "20120188876" OR "20120226413" OR "20120269253" OR "20130005414" OR					

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PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N2	0	(vechicle lock$4 unlock$4 profile mobile device first second user interface computing server command (grant$4 giv$4 allow$4) control permission transmit$4 (identifier id) database wireless$4 proximity match$5 updat$4 authentication).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2021/06/28 06:21 AM

N3	7	(request access (user OR driver) profile stor$3 vehicle preference (function OR setting) (verify OR verifying OR verified OR verification OR authenticat$4) (modif$6) updat$4).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2023/12/21 08:56 AM
N4	0	(vechicle lock$4 unlock$4 profile mobile device first second user interface computing server command (grant$4 giv$4 allow$4) control permission transmit$4 (identifier id) database wireless$4 proximity match$5 updat$4 authentication).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2024/02/28 07:34 AM
N5	8	(request access (user OR driver) profile stor$3 vehicle preference (function OR setting) (verify OR verifying OR verified OR verification OR authenticat$4) (modif$6) updat$4).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2024/02/28 07:34 AM

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	17515961
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First Named Inventor	Christopher P. Ricci
Art Unit	2851
Examiner Name	Stacy Whitmore
Attorney Docket Number	50365-0005002

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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	6310542	B1	2001-10-30	Gehlot	
	2	6373148	B1	2002-04-16	Daiss et al.	
	3	6454178	B1	2002-09-24	Fusco et al.	
	4	6484082	B1	2002-11-19	Millsap et al.	
	5	6762684	B1	2004-07-13	Camhi	
	6	6944533	B2	2005-09-13	Kozak et al.	
	7	7117075	B1	2006-10-03	Larschan et al.	
	8	7164117	B2	2007-01-16	Breed et al.	

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	9	7233861	B2	2007-06-19	Van Buer et al.	
	10	7650234	B2	2010-01-19	Obradovich et al.	
	11	8140358	B1	2012-03-20	Ling et al.	
	12	8463488	B1	2013-06-11	Hart	
	13	8527146	B1	2013-09-03	Jackson et al.	
	14	8621645	B1	2013-12-31	Spackman	
	15	8660734	B2	2014-02-25	Zhu et al.	
	16	8977408	B1	2015-03-10	Cazanas et al.	

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	1	20020097145	A1	2002-07-25	Tumey et al.	

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	2	20020133716	A1	2002-09-19	Harif	
	3	20020152010	A1	2002-10-17	Colmenarez et al.	
	4	20030097477	A1	2003-05-22	Vossler	
	5	20030101451	A1	2003-05-29	Bentolila et al.	
	6	20030158638	A1	2003-08-21	Yakes et al.	
	7	20030222758	A1	2003-12-04	Willats et al.	
	8	20040153356	A1	2004-08-05	Lockwood et al.	
	9	20040217850	A1	2004-11-04	Perttunen et al.	
	10	20040225557	A1	2004-11-11	Phelan et al.	
	11	20050024189	A1	2005-02-03	Weber	
	12	20050086051	A1	2005-04-21	Brulle-Drews	

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	13	20050144048	A1	2005-06-30	Belanger et al.	
	14	20050261815	A1	2005-11-24	Cowelchuk et al.	
	15	20050283284	A1	2005-12-22	Grenier et al.	
	16	20060036358	A1	2006-02-16	Hale et al.	
	17	20060042846	A1	2006-03-02	Kojori et al.	
	18	20060059229	A1	2006-03-16	Bain et al.	
	19	20060082434	A1	2006-04-20	Brey	
	20	20060175403	A1	2006-08-10	Fossen McConnell et al.	
	21	20060217864	A1	2006-09-28	Johnson et al.	
	22	20060293908	A1	2006-12-28	Becker et al.	
	23	20070010942	A1	2007-01-11	Bill	

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	24	20070038345	A1	2007-02-15	Heider et al.	
	25	20070158128	A1	2007-07-12	Gratz et al.	
	26	20070200663	A1	2007-08-30	White et al.	
	27	20070241861	A1	2007-10-18	Venkatanna et al.	
	28	20070250920	A1	2007-10-25	Lindsay	
	29	20080119212	A1	2008-05-22	Himmelstein	
	30	20080164985	A1	2008-07-10	Iketani et al.	
	31	20080189110	A1	2008-08-07	Freeman et al.	
	32	20080228358	A1	2008-09-18	Wang et al.	
	33	20080245598	A1	2008-10-09	Gratz et al.	
	34	20080252487	A1	2008-10-16	McClellan et al.	

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	35	20080269958	A1	2008-10-30	Filev et al.	
	36	20080300778	A1	2008-12-04	Kuznetsov	
	37	20080319602	A1	2008-12-25	McClellan et al.	
	38	20090119164	A1	2009-05-07	Colson et al.	
	39	20090195370	A1	2009-08-06	Huffman et al.	
	40	20090210143	A1	2009-08-20	Seltzer et al.	
	41	20090210357	A1	2009-08-20	Pudar et al.	
	42	20090216935	A1	2009-08-27	Flick	
	43	20090275321	A1	2009-11-05	Crowe	
	44	20090284359	A1	2009-11-19	Huang et al.	
	45	20090319181	A1	2009-12-24	Khosravy et al.	

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	46	20100023223	A1	2010-01-28	Huang et al.	
	47	20100036560	A1	2010-02-11	Wright et al.	
	48	20100076646	A1	2010-03-25	Basir et al.	
	49	20100087987	A1	2010-04-08	Huang et al.	
	50	20100097178	A1	2010-04-22	Pisz et al.	
	51	20100127847	A1	2010-05-27	Evans et al.	
	52	20100137037	A1	2010-06-03	Basir	
	53	20100145700	A1	2010-06-10	Kennewick et al.	
	54	20100152976	A1	2010-06-17	White et al.	
	55	20100222939	A1	2010-09-02	Namburu et al.	
	56	20100227555	A1	2010-09-09	Zinn et al.	

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	57	20100292867	A1	2010-11-18	Bohm et al.	
	58	20110077855	A1	2011-03-31	Sumizawa	
	59	20110078024	A1	2011-03-31	Messier et al.	
	60	20110106375	A1	2011-05-05	Gurusamy Sundaram	
	61	20110106436	A1	2011-05-05	Bill	
	62	20110137520	A1	2011-06-09	Rector et al.	
	63	20110137741	A1	2011-06-09	Omer et al.	
	64	20110153191	A1	2011-06-23	Dhanani	
	65	20110193707	A1	2011-08-11	Ngo	
	66	20110210867	A1	2011-09-01	Benedikt	
	67	20110219105	A1	2011-09-08	Kryze et al.	

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	Attorney Docket Number	50365-0005002

	68	20110221656	A1	2011-09-15	Haddick et al.	
	69	20110251734	A1	2011-10-13	Schepp et al.	
	70	20110300831	A1	2011-12-08	Chin	
	71	20120053793	A1	2012-03-01	Sala et al.	
	72	20120101690	A1	2012-04-26	Srinivasan et al.	
	73	20120109451	A1	2012-05-03	Tan	
	74	20120110356	A1	2012-05-03	Yousefi et al.	
	75	20120115446	A1	2012-05-10	Gautama et al.	
	76	20120143391	A1	2012-06-07	Gee	
	77	20120149341	A1	2012-06-14	Tadayon et al.	
	78	20120188876	A1	2012-07-26	Chow et al.	

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	Examiner Name	Stacy Whitmore
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	79	20120226413	A1	2012-09-06	Chen et al.	
	80	20120269253	A1	2012-10-25	Daecke	
	81	20130005414	A1	2013-01-03	Bindra et al.	
	82	20130079964	A1	2013-03-28	Sukkarie et al.	
	83	20130116835	A1	2013-05-09	Nowell	
	84	20130116882	A1	2013-05-09	Link, II et al.	
	85	20130173358	A1	2013-07-04	Pinkus	
	86	20130197796	A1	2013-08-01	Obradovich et al.	
	87	20130204457	A1	2013-08-08	King et al.	
	88	20130226365	A1	2013-08-29	Brozovich	
	89	20130261966	A1	2013-10-03	Wang et al.	

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	90	20130274997	A1	2013-10-17	Chien	
	91	20130311038	A1	2013-11-21	Kim et al.	
	92	20140188533	A1	2014-07-03	Davidson	
	93	20140195272	A1	2014-07-10	Sadiq et al.	
	94	20140200737	A1	2014-07-17	Lortz et al.	
	95	20140221781	A1	2014-08-07	Schrauf et al.	
	96	20140222298	A1	2014-08-07	Gurin	
	97	20140223384	A1	2014-08-07	Graumann	
	98	20140257627	A1	2014-09-11	Hagan, Jr. et al.	
	99	20140277843	A1	2014-09-18	Langlois et al.	
	100	20140282931	A1	2014-09-18	Protopapas	

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	101	20150006012	A1	2015-01-01	Kammel et al.	
	102	20150088337	A1	2015-03-26	Toohy et al.	
	103	20160173568	A1	2016-06-16	Penilla et al.	
	104	20160306615	A1	2016-10-20	Ricci	
	105	20190356738	A1	2019-11-21	Haidar et al.	

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☐ 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.

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Signature	/Robert A. Conley/	Date (YYYY-MM-DD)	2024-02-23
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ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5218	FILED BY	Robert Conley
PATENT CENTER #	64570971	FILING DATE	11/01/2021
CUSTOMER #	192827	FIRST NAMED INVENTOR	Christopher P. Ricci
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
17515961_Rule_312_Amendment.pdf	8	Amendment after Notice of Allowance (Rule 312)	133 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
17515961_Rule_312_Amendment.pdf	41774480DA44EC7D9876EBCED25A51E788C146551693F786261D106B8F00E5ADD307E871238BC3EC133569EE5F0C9E865727BE752D39F50BD443EEC533E64455

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Christopher P. Ricci	)	I hereby certify that this paper is being electronically deposited with the United States Patent and Trademark Office, on this date:
Application No.: 17/515,961	)	
Filed: November 1, 2021	)	**March 6, 2024**
Title: ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES	)	**/Robert A. Conley/**
Group Art Unit: 2851	)	Robert A. Conley
Examiner: Stacy Whitmore	)	

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AFTER NOTICE OF ALLOWANCE PURSUANT TO 37 C.F.R. § 1.312

Dear Commissioner:

Please enter the following amendments and consider the accompanying remarks.

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 8 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-20. (Canceled)

21. (Previously Presented) A system, comprising:

memory;

machine-readable instructions; and

one or more processors to execute the machine-readable instructions to:

receive a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle;

determine, by performing at least one of a verification process or an authentication process in response to the request, whether the request is authorized to access the user profile;

in response to determining that the request is authorized to access the user profile, determine one or more requested modifications to at least one of the one or more preferences; and

in response to the one or more requested modifications, create an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

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22. (Currently Amended) The system of claim 21, wherein the one or more processors are to execute the machine-readable instructions to transmit the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to [[the]] transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle.

23. (Previously Presented) The system of claim 22, wherein the one or more processors are to execute the machine-readable instructions to determine whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile.

24. (Currently Amended) The system of claim 23, wherein, in response to determining ~~the presence of~~ that one or more conflicts exist between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to overwrite conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences.

25. (Currently Amended) The system of claim 23, wherein, in response to determining ~~the presence of~~ that one or more conflicts exist between the updated preferences and the local preferences, the one or more processors are to execute the machine-readable instructions to perform a reconciliation process that allows selective determination of which

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conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences.

26. (Previously Presented) The system of claim 21, wherein the one or more processors are to perform both the verification process and the authentication process, and wherein the one or more processors are to determine that the request is authorized to access the user profile in response to successfully verifying the request via the verification process and successfully authenticating the request via the authentication process.

27. (Previously Presented) The system of claim 21, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device.

28. (Previously Presented) The system of claim 21, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device.

29. (Previously Presented) The system of claim 21, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template.

30. (Previously Presented) The system of claim 29, wherein the template is a global standard template that is common among at least two vehicle manufacturers.

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31. (Previously Presented) A method, comprising:

receiving a request to access a user profile stored at a vehicle, the user profile including one or more preferences associated with functions or settings of the vehicle;

determining, by performing at least one of a verification process or an authentication process via one or more processors in response to the request, whether the request is authorized to access the user profile;

in response to determining that the request is authorized to access the user profile, determining, via the one or more processors, one or more requested modifications to at least one of the one or more preferences; and

in response to the one or more requested modifications, creating, via the one or more processors, an updated user profile at the vehicle, the updated user profile including one or more updated preferences based on the one or more requested modifications.

32. (Currently Amended) The method of claim 31, further comprising transmitting the updated user profile from the vehicle to at least one of a mobile device, a cloud server, a remote server, or another vehicle, wherein a local user profile including one or more local preferences is stored at the at least one of the mobile device, the cloud server, the remote server, or the other vehicle prior to [[the]] transmission of the updated user profile to the at least one of the mobile device, the cloud server, the remote server, or the other vehicle.

33. (Previously Presented) The method of claim 32, further comprising determining whether any conflicts exist between the updated preferences of the updated user profile and the local preferences of the local user profile.

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34. (Currently Amended) The method of claim 33, wherein, in response to determining ~~the presence of~~ that one or more conflicts exist between the updated preferences and the local preferences, the method further comprises overwriting conflicted ones of the local preferences with corresponding conflicting ones of the updated preferences.

35. (Currently Amended) The method of claim 33, wherein, in response to determining ~~the presence of~~ that one or more conflicts exist between the updated preferences and the local preferences, the method further comprises performing a reconciliation process that allows selective determination of which conflicted ones of the local preferences should be overwritten by corresponding conflicting ones of the updated preferences.

36. (Previously Presented) The method of claim 31, further comprising performing both the verification process and the authentication process, wherein determining that the request is authorized to access the user profile includes successfully verifying the request via the verification process and successfully authenticating the request via the authentication process.

37. (Previously Presented) The method of claim 31, wherein the verification process includes at least one of biometric recognition, gesture recognition, facial recognition, or identification of a mobile device.

38. (Previously Presented) The method of claim 31, wherein the authentication process includes an exchange of security keys between the vehicle and a mobile device.

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39. (Previously Presented) The method of claim 31, wherein the user profile is based on a template for the one or more preferences, and the updated user profile is created relative to the template.

40. (Previously Presented) The method of claim 39, wherein the template is a global standard template that is common among at least two vehicle manufacturers.

No new matter has been added.

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Remarks

The Applicant has considered the Notice of Allowance dated March 6, 2024. Allowed claims 22, 24, 25, 32, 34, and 35 have been amended. No new matter has been added.

All claims are in condition for allowance. If there are any remaining issues in this application, the Applicant encourages the Examiner to contact the undersigned at the number listed below. The Commissioner is authorized to charge any deficiency in the submitted payment toward payment of any fee due for the filing of this paper to deposit account number 60-5022.

In addition, if a petition for an extension of time under 37 CFR 1.136(a) is necessary to maintain the pendency of this case and is not otherwise requested in this case, the Applicant requests that the Commissioner consider this paper to be a petition for an appropriate extension of time and hereby authorizes the Commissioner to charge the fee as set forth in 37 CFR 1.17(a) corresponding to the needed extension of time to deposit account number 60-5022.

Respectfully submitted,

AVANTECH LAW, LLP
USPTO Customer No. 192827
(855) 750-9951

Dated: March 6, 2024

/Robert A. Conley/
Robert A. Conley
Registration No. 55,846
Attorney for Applicant

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Page 461 of 472

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PATENT AND TRADEMARK OFFICE

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/515,961	**06/04/2024 11:20:05 AM Z ET**	**1007-035USU1**

Title of Invention

ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5218	FILED BY	Robert Conley
PATENT CENTER #	65810025	FILING DATE	11/01/2021
CUSTOMER #	192827	FIRST NAMED INVENTOR	Christopher P. Ricci
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
web85b.pdf	3	Issue Fee Payment (PTO-85B)	60 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
web85b.pdf	7E41A3E6B6F1AA06303E85BC2C02645E8E30055BA6622EB77 8BE578C4C1C6C43587027868962BADCF4DB135F59EFFAA3D8 E9E85482570E64745397A377A5951F

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/515,961	**06/04/2024 11:20:05 AM Z ET**	**1007-035USU1**

Title of Invention

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Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5218	FILED BY	Robert Conley
PATENT CENTER #	65810025	AUTHORIZED BY	-
CUSTOMER #	192827	FILING DATE	11/01/2021
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Christopher P. Ricci

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 605022	E202464B20249913	Robert Conley

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2501	UTILITY ISSUE FEE	480.00	1	480.00
			TOTAL AMOUNT:	**$480.00**

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ISSUE FEE TRANSMITTAL FORM

APPLICATION #	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET #
17515961	11/01/2021	Christopher Ricci	1007-035USU1

Title of Invention

ACCESS AND PORTABILITY OF USER PROFILES STORED AS TEMPLATES

Application Information

APPLICATION TYPE	Nonprovisional Application under 35 USC 111(a)	**DATE DUE**	06/06/2024
CONFIRMATION #	5218	**ISSUE FEE DUE**	$ 480
EXAMINER	STACY WHITMORE	**PUBLICATION DUE**	$ 0
GROUP ART UNIT	2851	**TOTAL FEES DUE**	$480
CLASS - SUBCLASS	716/139000	**PREV. PAID FEE**	$ 0
ENTITY STATUS	Small		

1. CHANGE OF CORRESPONDENCE ADDRESS AND/OR INDICATION OF FEE ADDRESS (37 CFR 1.33 & 1.363)

Correspondence Address

CURRENT ADDRESS

Maintenance Fee Address

CURRENT ADDRESS

Change of correspondence address requested,system generated AIA/122-PC form attached

Fee address indication requested, system generatedSB/47-PC form attached

2. ENTITY STATUS

Change in Entity Status

NEW STATUS

3. THE FOLLOWING FEES ARE SUBMITTED

✔ Issue Fee

✔ Publication Fee

4. FEE AUTHORIZATION

I authorize USPTO to apply my previously paid issue fee to the current fees due

The Director is herby authorized to apply my previously paid issue fee to the current fee due and to charge deficient fees to Deposit Account Number:

✔ If in addition to the payment of the issue fee amount submitted with this form, there are any discrepencies in any amount(s) due, the Director is authorized to charge any deficiency, or credit any overpayment, to Deposit Account Number: 605022

5. FIRM AND/OR ATTORNEY NAMES TO BE PRINTED

NOTE: If no name is listed, no name will be printed
For printing on the patent front page, list to be displayed as entered

Avantech Law, LLP

6. ASSIGNEE NAME(S) AND RESIDENCE DATA TO BE PRINTED

NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a susbstitute for filing an assignment.

Signature

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 has filed and has been granted power of attorney in this application. I also certify that this Fee(s) Transmittal form is being transmitted to the USPTO via Patent Center on the date

indicated below.

Signature	Name	Registration #	Date
/Robert A. Conley/	Robert A. Conley	55846	06/04/2024

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/515,961	07/16/2024	12039243	1007-035USU1	5218

192827 7590 06/26/2024

Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 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 Center (https://patentcenter.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Christopher P. Ricci, Saratoga, CA;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

AutoConnect Holdings LLC, Wellesly, MA

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17/515,961	11/01/2021	Christopher P. Ricci	1007-035USU1	5218

192827 7590 07/16/2024

Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

EXAMINER	
WHITMORE, STACY	

ART UNIT	PAPER NUMBER
2851	

NOTIFICATION DATE	DELIVERY MODE
07/16/2024	ELECTRONIC

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

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

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

USPTO@avantechlaw.com
conley@avantechlaw.com

APPLICATION NO.	ISSUE DATE	PATENT NO.
17/515,961	16-Jul-2024	12039243

Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants