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User Experience Technologies in the Chrysler Portal Concept

Vehicle-to-X Communication

Emergency vehicle awareness: Detects when an emergency vehicle is approaching and uses spatial awareness and 3-D graphics to illustrate to the driver the approaching vehicle's direction and distance on the vehicle's high-mount display screen

Facial recognition and voice biometrics: Automatically recognizes and configures the driver and passenger's preferred vehicle settings. Voice biometrics enables the driver and passengers to use voice commands to unlock and open doors upon approaching the vehicle

Near Detection: When approaching the vehicle, the owner and accompanying family members are automatically detected via facial recognition cameras on the exterior

Far Detection: The vehicle is able to recognize users via their personal mobile devices from up to 30 feet away. Upon approach to the vehicle, preferred settings are automatically configured and ready for use

Social Communication

In-vehicle sharing: The Chrysler Portal concept's occupants can share music, images, videos and favorite locations with all occupants via a community display screen and other brought-in devices

Community display for group sharing: Positioned in the headliner, the community display is viewable to passengers in the second and third rows. The community display encourages engagement and collaboration by sharing media in a community playlist, coordinating orders at the drive-thru or even taking a selfie to capture a moment. Users are able to bring in and dock their personal devices in the vehicle. Once docked, passengers can swipe music, images or videos from their personal devices onto the community display for all to experience

High-mount display with spatial awareness: The high-mount display features an Active Matrix Organic Light Emitting Diode (AMOLED) screen that showcases a 360-degree surround of the outside environment. Placed above the instrument panel, it helps keep all occupants aware of the road ahead. Maintaining visibility of the horizon helps to reduce the possibility of motion sickness while interacting with the 3-D graphics

Group settings: If taking the Chrysler Portal concept on an excursion with family or friends, group settings can be created to enhance the road-trip experience. Predictive intelligence merges preferences from all occupants into community settings to assist in finding destinations, planning routes and playing media everyone can enjoy

Passenger-to-passenger intercom: When mom's driving and needs to communicate with her child seated in the third row, she can do so easily with the passenger-to-passenger intercom system that enables occupants to communicate directly with driver and vice-versa

Interior camera for group photo: What's a road trip without a selfie to commemorate the experience? Using the

Chrysler Portal concept's interior camera, all passengers can take a group photo that will then automatically sync to personal devices for sharing

Smart home integration: Using internet connectivity, the Chrysler Portal can control smart home devices, such as cameras, exterior and interior lights, and sensors for monitoring the environment and triggering automation

In-vehicle mobile commerce: Users are able to automatically pay for fuel, parking, food, etc. by linking their payment information to the vehicle in a secure manner. There is no need to carry cash or a credit card as the payment can be securely transacted from the vehicle with one confirmation

Intelligent suggestions: Based on the users' daily habits, traffic, calendar and personal preferences, the vehicle anticipates needs to provide personalized suggestions

Personal zoned audio: Enhanced audio and personal sound zones enable each passenger to enjoy different content without the need for headphones, while reinforcing audio cues for the driver, such as the sound of an ambulance approaching from a particular direction

Natural language voice interaction: Users are able to control vehicle functions by voice command, such as "open door," "open trunk," "turn on lights" and "share music with passengers"

Gesture control: Users are able to employ gestures to activate vehicle controls, such as to open doors, pick up a phone call, control volume, control high-mount display, etc.

Chrysler Portal Concept Companion App: Users can download an app to a mobile device and have the ability to customize vehicle lighting, control vehicle and home settings, and lock/unlock doors, etc. from any location

Upgradeable Technology

Sensors: Upgradable hardware options for technologies, such as sensors and cameras, can add functionality when the technology is needed or wanted

Software: Updatable and adaptable software can keep the vehicle current and relevant depending on the preference of the driver and passenger, and their desire to add on new content

Docking systems: Provide seamless integration of brought-in devices, creating a vehicle ecosystem of modular sensors, displays that grow and advance with technology. Brought-in personal devices, such as phones, tablets, smart lighting, cameras, wearables and home devices, can be docked in a safe and secure manner and be controlled by the driver or front-seat passenger in the center stack

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