



**Studio Patents**  
2011-2019



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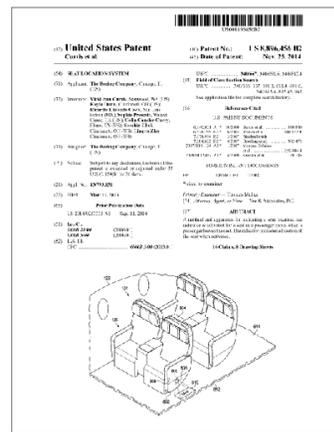
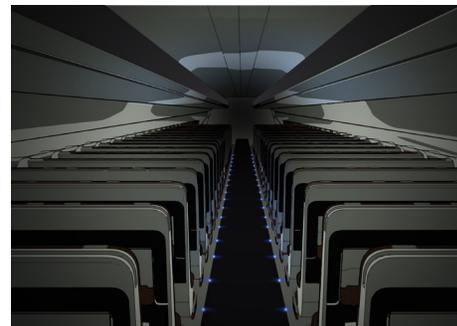
# Seat Location Indicator

Patent No.: 8,896,456

November 25, 2014

## DESCRIPTION:

A passenger out-of-seat electronic display indicator for a cabin compartment. The electronic display indicator will be comprised of: one or more lights configured to directionally inform a passenger when approaching a return seat assignment.



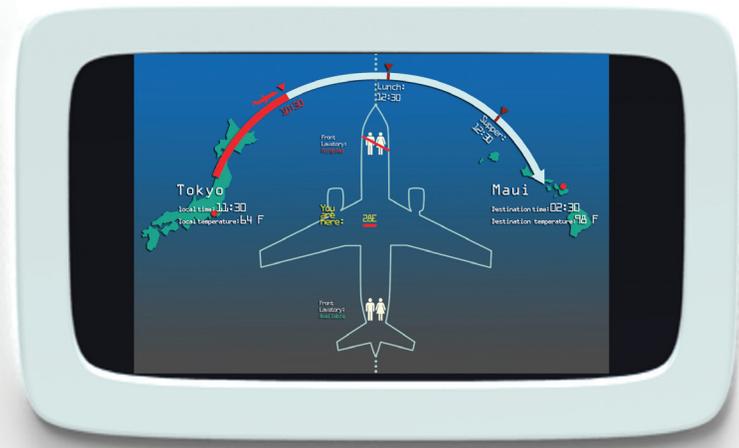


# Enhanced In-Flight Passenger Information System

Patent No.: 8,806,543  
August 12, 2014

## DESCRIPTION:

A method for providing passenger information on a mobile vehicle. The method is comprised of an electronic display communicating in-flight services, on-ground reservations and real-time cabin activity. This allows passengers to schedule their own activities during a duration of travel.



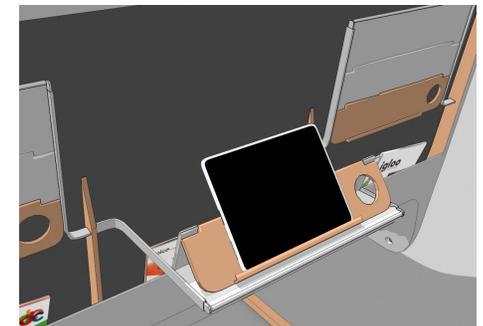
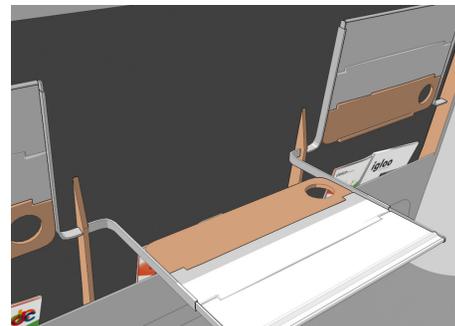


# Configurable Table

Patent No: 9,138,055  
September 22, 2015

## DESCRIPTION:

The configurable tray may include a support assembly and a tray assembly. The support assembly is configured for connection to a structure. The tray assembly is coupled to the support assembly and is configured to provide a coplanar tray configuration and a multi-planar tray configuration. The tray assembly includes a number of tray table segments that are each pivotally coupled to adjacent tray table segments.





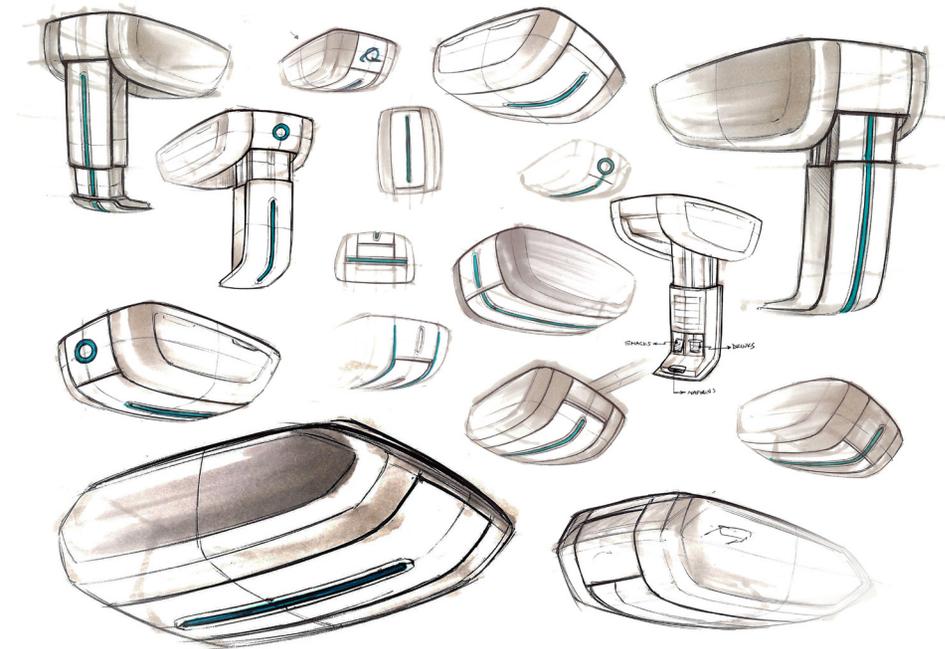
# Rail Mounter Beverage Dispenser

Pub. No.: US20150014481A1

January 15, 2015

## DESCRIPTION:

The Dispenser is a simple, sleek, and efficient replacement for the bulky, obtrusive airline carts of yesterday. It is automated and lightweight, and removes much of the physical labor for the flight attendants. No more pushing of a heavy cart, blocking the aisle, or bumping into passengers' knees. The Dispenser features grab-and-go style snack dispensers, and a built-in fountain drink/ice dispensing system. This means no opening of pop cans, no drawers to pull open, and no bending over.





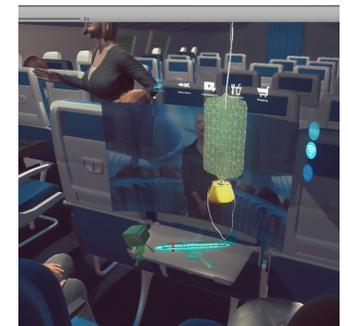
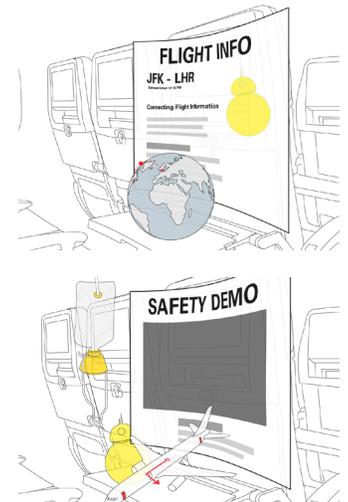
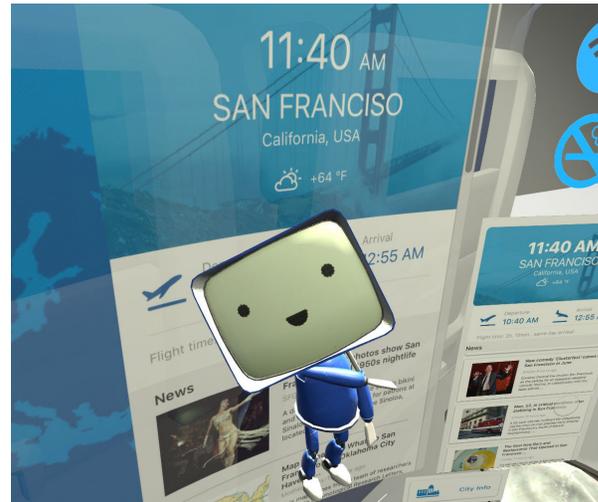
# Boeing Onboard (Bo)

Patent Application: 17-1295

## DESCRIPTION:

Boeing Onboard is a virtual assistant combined with a holographic interface which all passengers have access to onboard planes. Through augmented reality and wearable glasses, Boeing Onboard has the ability to provide passengers with valuable information, such as safety demonstrations, in-flight entertainment, and web browsing.

Boeing Onboard is an in-flight concierge service connecting the passenger to all the resources and information the passenger needs for the ultimate travel experience.





# Cabin Robotic

Patent Application: 17-1212

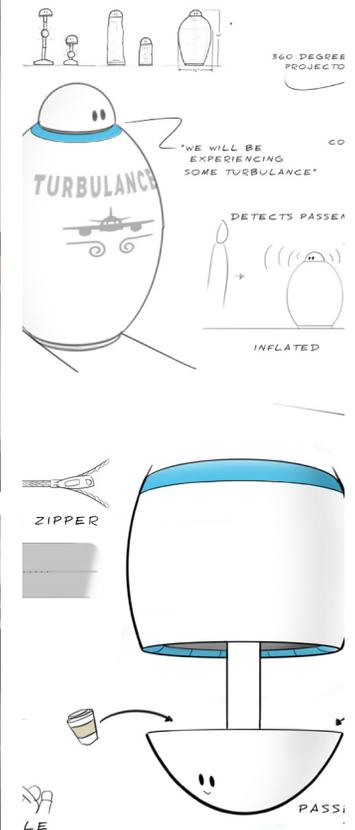
## DESCRIPTION:

### The cabin bot

The cabin bot has a multitude of functions, however, the most important feature is one that helps the flight attendants with collecting trash. He not only carries trash for the flight attendants, which frees up both of their hands, but also compacts the trash. At the end of the flight, the cleaning crew can empty the robot's internal bins for trash and recycling.

### The med bot

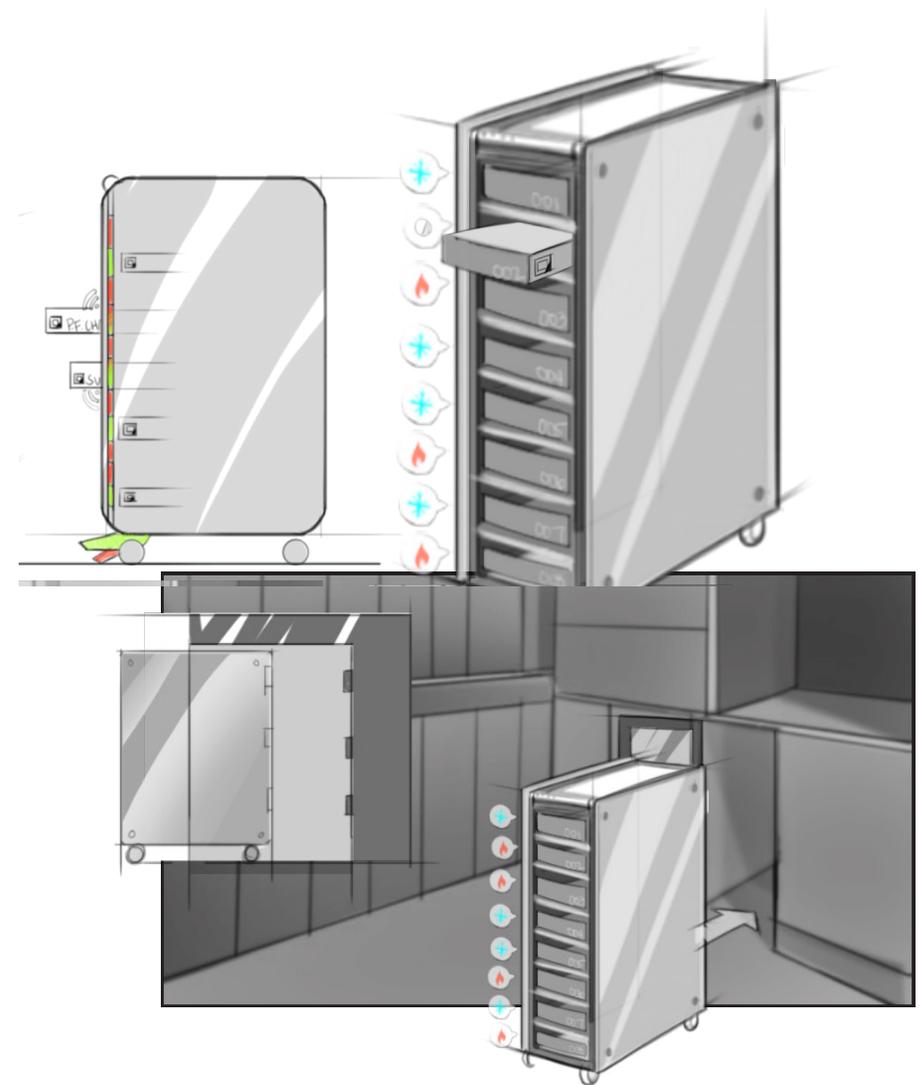
Medical emergencies can be filled with stress and anxiety. The cabin bot helps calm those fears. He provides a point of direct communication with medical professionals on the ground, and displays a passenger's vitals once the flight attendant has placed a biometric bracelet on the passenger. He also projects step-by-step instructions of simple procedures that can guide flight attendants through the proper protocol.





## DESCRIPTION:

SkyKitchen is a food and beverage cart that holds the passengers' food and keeps it at the appropriate temperature during the flight. The cart is divided into compartments that will hold the food in standardized packaging, while having the capability to heat and cool depending on the food and customer's preference. The food packaging is made of recyclable and renewable fiber-based materials and will fit into the compartments for each customer. The packaging contains a QR code and once entered into the compartment, the code is scanned and this allows the cart to understand which process should be carried out for the food. The cart will rest in separate compartments in the galley to receive the power necessary for the heating and cooling processes. The handle is made of an insulated material for safety and two side panels are installed made of glass-ceramic to protect passengers and flight attendants as it is being moved through the main aisle.



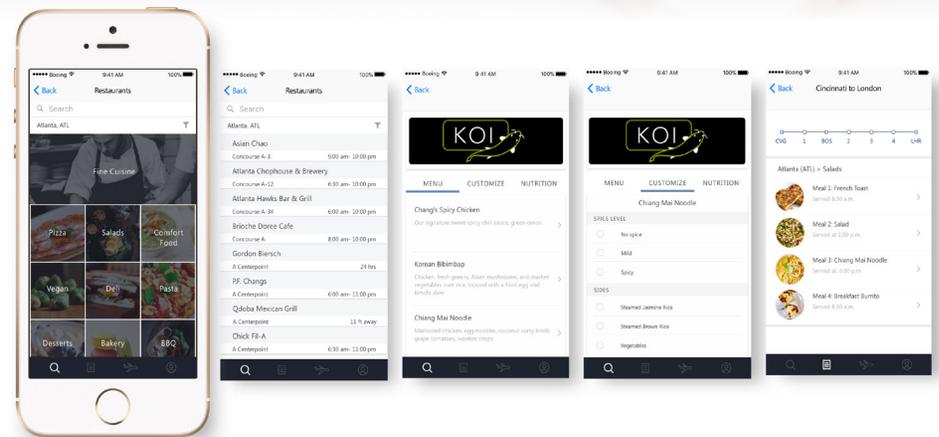
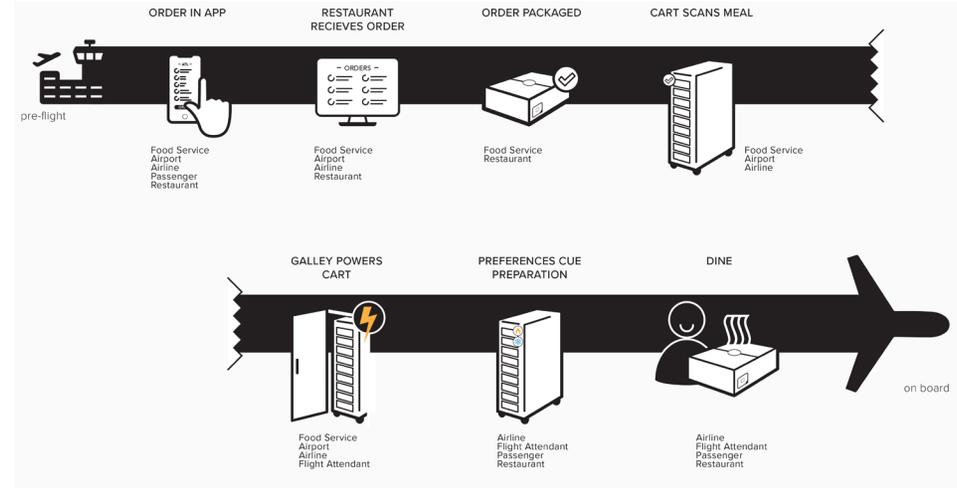


# SkyDining

Patent Application: 18-1540

## DESCRIPTION:

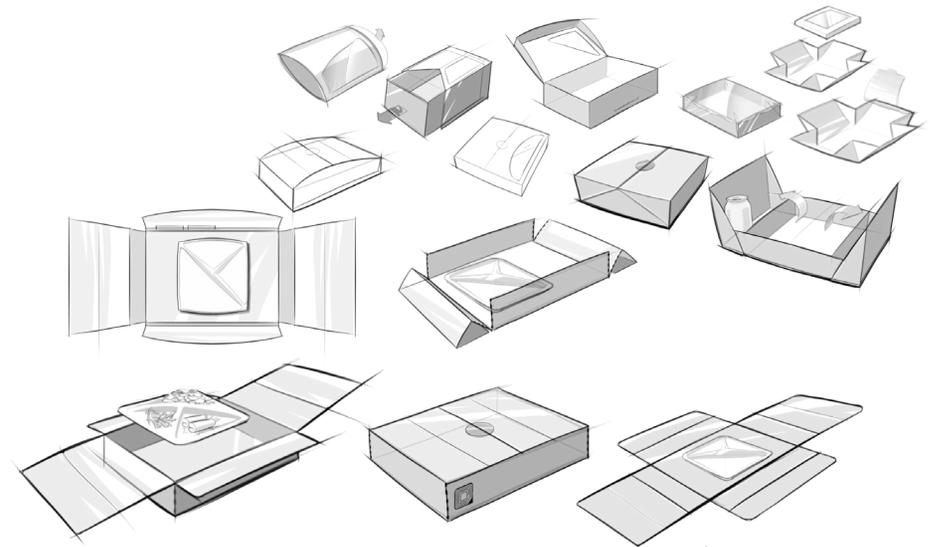
The SkyDining process connects business class passengers with airport restaurants through an innovative process which allows them to choose meals from their favorite restaurants in place of the current meal options served in business class. The ordering process takes place through the SkySelect app. On the app, passengers customize their meal and choose what time they would like their meal to be served inflight. Standardized packaging, called SkyBox, is used to store food throughout its journey from restaurant to passenger. The galley cart redesign (SkyKitchen) is made up of compartments for meal storage. Each compartment utilizes advanced heating and cooling technology.





## DESCRIPTION:

SkyBox is a standardized food packaging that is used by participating restaurants. The packaging includes a foldable exterior, molded dishware, and the potential for clear viewing windows that are all light-weight, recyclable, oven safe, and freezer safe. The specialized orders placed by customers are fulfilled by the restaurant of choice and labeled with a specific code that holds both the ordering passenger information and the meal. Once filled, the SkyBoxes are delivered to the third party Food Service provider where they are inspected, sealed, and loaded into the appropriate SkyKitchen. The SkyKitchen shelves are each equip with scanners that read and receive the passenger and cooking information from each individual SkyBox. The SkyKitchen meals are autonomously prepared directly inside of the SkyKitchen at the time specified by the customer within the SkySelect application. When delivered to the passenger, SkyBox is designed to provide a premium dining experience similar to a placemat and offer areas for drink stabilization.



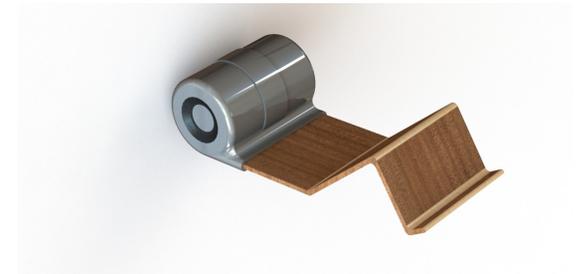
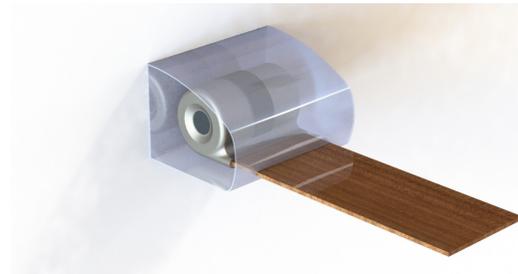
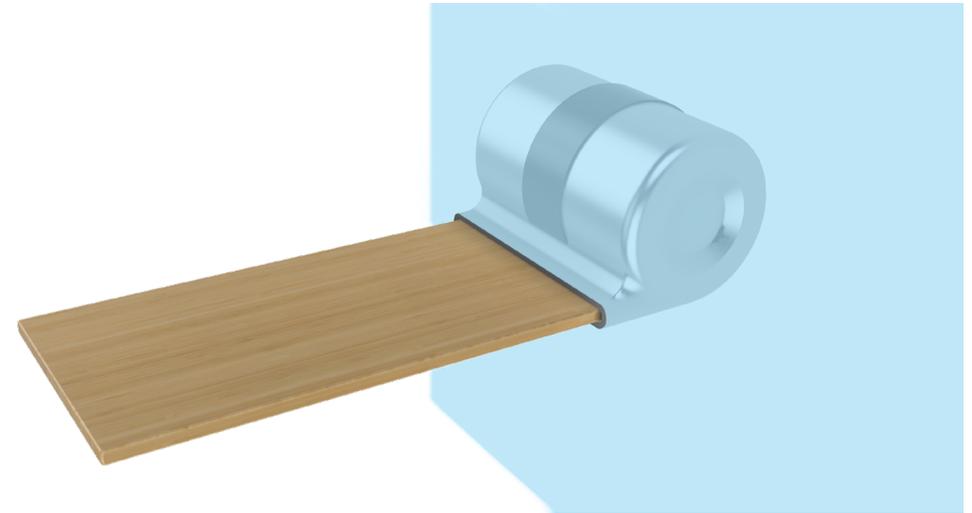


# Retractable Support Surface

Patent Application: 18-1557

## DESCRIPTION:

The Rigid Desk is designed to form into various packages for discreet storage of additional work surfaces. It utilizes layer jamming technology, while the vacuum pressure maintains a stable, solid surface. This can be implemented in a variety of places on the plane, including additional table space for the business class passengers, modular shelves for use in the galley, tray tables for pilots, and even baby changing tables in the lavatory.

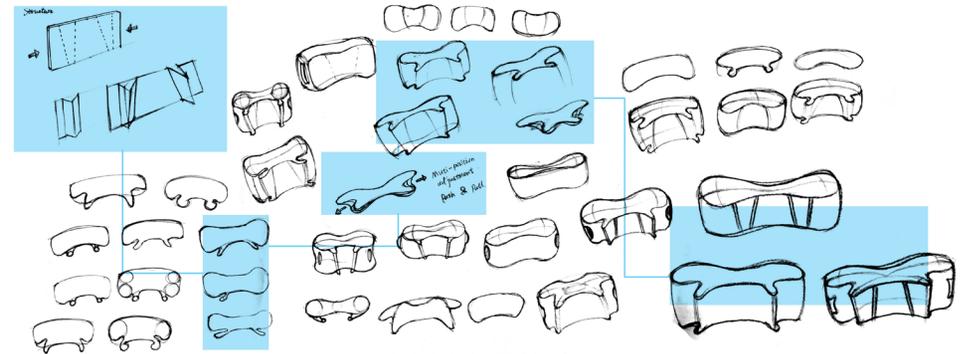




## DESCRIPTION:

The WiNGS smart pillow provides a solution to support a passenger's body and help them sleep better. Built-in sensors detect when the environmental conditions change during a passenger's sleep. The sensors also track the passenger's vital signs and tell flight attendants if someone feels sick, uncomfortable, etc.

The designed structure ensures the sides will never fall back and provides enough stability to let you comfortably rest your head without worry of the structure collapsing.





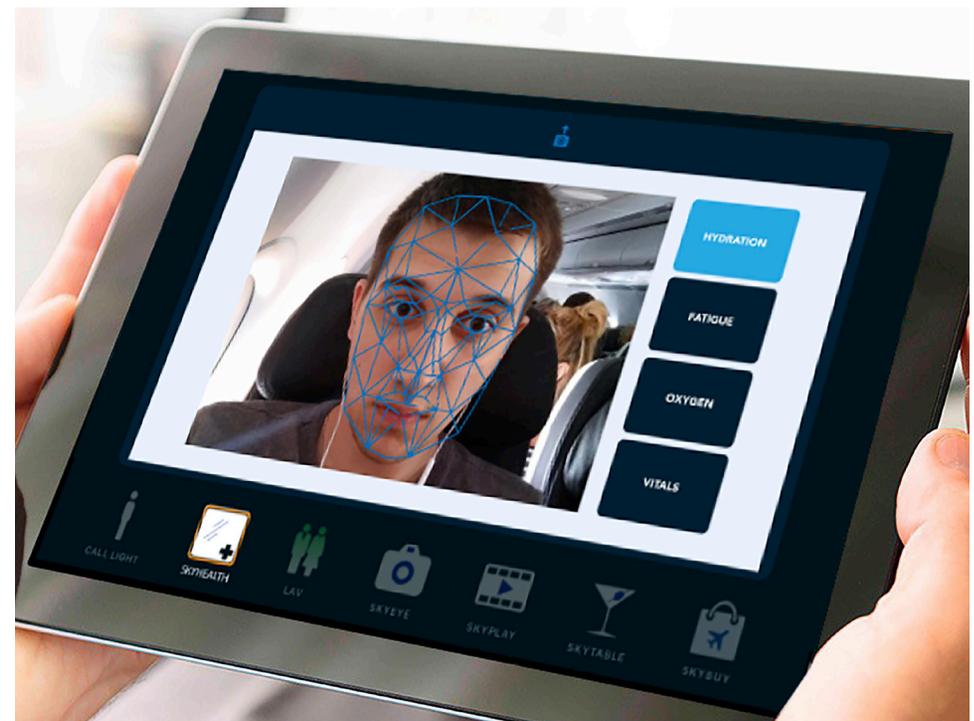
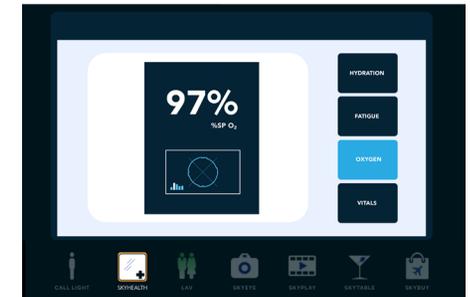
# SkyHealth

Patent Application: 18-1560  
18-1560-2  
18-1560-3

## DESCRIPTION:

SkyHealth software integrated within the current Boeing app interface. Passengers monitor their health and wellness in-flight through the already integrated technology. After uploading a clear photograph of the face, the app scans for hydration, fatigue, oxygen, and vitals levels. Once receiving the levels, passengers have the option to order items to regulate their levels.

The app software works in collaboration with most smart device cameras or webcams, including phones, tablets, and laptops. It utilizes the already embedded software of multispectral cameras, facial recognition, and 3D face scanning. The software scans the facial region and detects various levels included.





# Coffeehouse Cabin

Patent Application: 19-1607

## DESCRIPTION:

With the creation of a new aircraft zone priced above economy class and below business class, passengers are provided with a new productivity-focused zone.

The final concept proposed by the Live Well team addressed all ergonomic considerations for this new layout, from aisle space, to personal space and storage while seated, to safety considerations for takeoff and landing. For the final presentation of the Coffee House Cabin concept, all detailed imagery of the individual seating configurations and the entire mixed-use seating zone were created. Some of the interactions, such as the reconfiguration of the seats for takeoff and landing and the entertainment screens, were animated. A final VR immersive model of the Coffee House Cabin was presented as validation of the viability of this innovative concept.





# Pawpass

Patent Application: 19-1610

## DESCRIPTION:

PawPass's digital identification tag helps manage passenger pet documentation and makes traveling with pets more efficient. SkyKennel is a designated space designed for pets to travel safely and comfortably within the cabin.

A galley or closet redesign allows pets to fly without disrupting other passengers and flight attendants. With the PawPass tag, a small token worn by the pet identifies the type of animal the pet is (personal, emotional, service) in addition to serving as the ticket for travel.

