

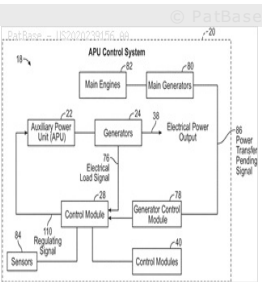
1) Family number: 80187117 (US2020239156 AA)

AIRCRAFT AUXILIARY POWER UNIT (APU) CONTROL SYSTEM HAVING SPEED COMPENSATION

Abstract: Source: US2020239156 AA An auxiliary power unit (APU) control system for an aircraft is disclosed, and includes an APU drivingly coupled to one or more generators, one or more processors, and a memory coupled to the one or more processors. The memory stores data comprising a database and program code that, when executed by the one or more processors, causes the APU control system to receive one or more ambient signals indicative of an air density value and one or more power signals indicative of a specific amount of power generated by the APU. The system is further caused to determine a first variable rotational speed of the APU based on the air density value. The APU continues to generate the specific amount of power when operating at the first variable rotational speed. After instructing the APU to operate at the first variable rotational speed, the system receives an electrical load signal.

Probable Assignee: BOEING CO

Earliest Publication Date: 20200729



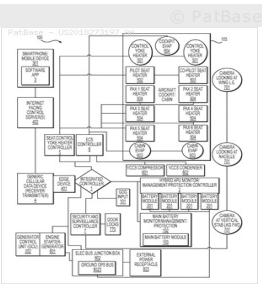
2) Family number: 71315619 (US2018273197 AA)

HYBRID AUXILIARY POWER UNIT FOR AIRCRAFT

Abstract: Source: US2018273197 AA An auxiliary power unit (APU) for aircraft is provided. The APU includes one or more battery modules for storing electrical power and an integrated controller adapted to operate the one or more battery modules for electrically powering aircraft subsystems for preflight readiness. A remote interface is communicatively coupled with the integrated controller and is adapted for displaying data from the APU and for receiving user instructions for transmission to the integrated controller for governing flow of electrical current between the APU and the aircraft subsystems.

Probable Assignee: TEXTRON AVIATION INC

Earliest Publication Date: 20180927



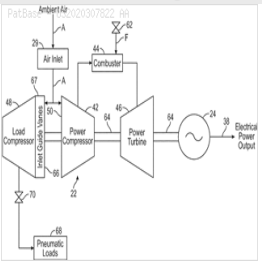
3) Family number: 81233153 (US2020307822 AA)

AIRCRAFT AUXILIARY POWER UNIT (APU) CONTROL SYSTEM HAVING VARIABLY SIZED AIR INLET

Abstract: Source: US2020307822 AA An auxiliary power unit (APU) control system for an aircraft is disclosed and includes an APU, an air inlet having an effective area, an air inlet door moveable to vary the effective area of the air inlet, an actuator configured to move the air inlet door into a set position, one or more processors, and a memory coupled to the one or more processors. The memory stores data comprising a database and program code that, when executed by the one or more processors, causes the APU control system to receive one or more ambient signals indicative of an air density value. The system also determines the effective area of the air inlet based on the air density value. The system is further caused to instruct the actuator to move the air inlet door into the set position.

Probable Assignee: BOEING CO

Earliest Publication Date: 20201001



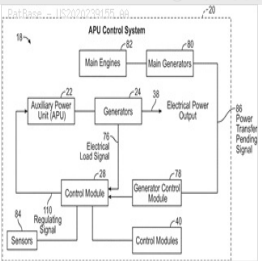
4) Family number: 80187099 (US2020239155 AA)

AIRCRAFT AUXILIARY POWER UNIT (APU) CONTROL SYSTEM HAVING SPEED COMPENSATION

Abstract: Source: US2020239155 AA An auxiliary power unit (APU) control system for an aircraft is disclosed. The APU control system includes an APU, one or more processors, and a memory coupled to the one or more processors. The memory stores data comprising a database and program code that, when executed by the one or more processors, causes the APU control system to receive a one or more ambient signals indicative of an air density value and one or more power signals indicative of a specific amount of power generated by the APU. The APU control system is further caused to determine a variable rotational speed of the APU based on the air density value and instruct the APU to operate at the variable rotational speed. The APU continues to generate the specific amount of power when operating at the variable rotational speed.

Probable Assignee: BOEING CO

Earliest Publication Date: 20200729



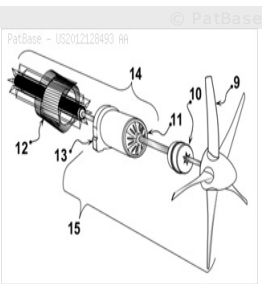
5) Family number: 51131975 (US2012128493 AA)

HYBRID FREE-AIR GAS TURBINE ENGINE

Abstract: Source: US2012128493 AA An alternate means of generating the power to drive the compressor section of gas turbine engines is described. Electric motors embedded within gas turbines would rotate the compressor, and receive the requisite power to perform the compression work from: 1) either a high-capacity APU generator, or 2) from a relative-wind driven turbine in a hybrid power-sharing arrangement. The electric motor provides enhanced control of N1 rpm, assuring greater responsiveness to control inputs.

Probable Assignee: SHELLEY RUDOLPH ALLEN

Earliest Publication Date: 20120524

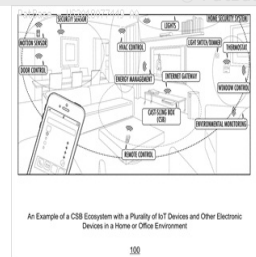


SYSTEM AND METHOD FOR REAL-TIME TRANSFER AND PRESENTATION OF MULTIPLE INTERNET OF THINGS (IOT) DEVICE INFORMATION ON AN ELECTRONIC DEVICE BASED ON CASTING AND SLINGING GESTURE COMMAND

Abstract: Source: US2018077449 AA A novel intermediary set-top box called a "cast-sling box" (CSB) uniquely incorporates multimedia and/or IoT data casting, slinging, transcoding, referring (i.e. referral mode), rendering, and recording capabilities for seamless interoperability of various electronic devices in a multiple device environment. The novel intermediary set-top box (i.e. "CSB") is also configured to perform a holistic-level device analysis on a plurality of IoT devices in a home or office environment. Furthermore, a holistic computerized user interface that can simultaneously and synergistically control and manage a multiple number of IoT devices is devised with the CSB as an intermediary set-top box. Moreover, a set of intuitive user gesture commands can be utilized in a direct peer-to-peer communication or in conjunction with the CSB as the intermediary set-top box, which enables simplified and seamless interoperability and multimedia data, control, and playback transfers among a plurality of electronic devices in a multiple display device environment.

Probable Assignee: DVDO INC

Earliest Publication Date: 20180315

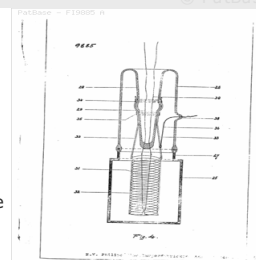


ELEKTRISKT URLADDNINGSROER PROVIDED WITH TWO OR SEVERAL ELEKTRODER (MACHINE TRANSLATION)

Abstract: Source: FI9885 A 1) elektriskt urladdningsroer having two eller flera elektroder, Kan-netecknat daerigenom, att elektroderna faeets vid I gastlitslutning Inorg som ett eventuellt sjaelv elektrod tjaenande.vi darigen lufttaett med-tillslut ningens glas hopBtinaelt metallkaerl, som fcestar av en del av give A tray metalliskt SETUP krom.laern och av en del av foerenande krom.laern for aemnets lufttaetta compound of the Trea Glaset, wherein kromjaernets identical composition ar sadan, att DesB vaermeutvidgnngskoefficient avviker FOGA from the glaset.

Probable Assignee: PHILIPS NV

Earliest Publication Date: 19231005

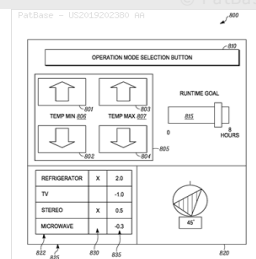


OPERATION OF VEHICLE ACCESSORIES BASED ON PREDICTED RUNTIME OF A PRIMARY SYSTEM

Abstract: Source: US20190202380 AA Methods and systems for efficient power management of a finite power storage unit that provides a finite amount of power to a vehicle accessory are provided. The method includes receiving an input parameter. The input parameter includes one of a desired runtime for the vehicle accessory and a desired condition setting for the vehicle accessory. The method also includes receiving an environment data. Also, the method includes a processor determining an output parameter based on the input parameter and the environment data. The output parameter includes one of an acceptable condition setting for the vehicle accessory and a predicted runtime for the vehicle accessory. Further, the method includes providing the output parameter to a display for displaying the output parameter.

Probable Assignee: THERMO KING CORP

Earliest Publication Date: 20190704



INTERNAL COMBUSTION ENGINE

Abstract: Source: US2018283235 AA Internal combustion engines having multi-stage telescoping poppet valves in lieu of conventional poppet valves are disclosed. The engines may have pistons with a skirt with a field of pockets that provide a ringless, non-lubricated, seal equivalent. The piston heads may include one or more depressions and may be domed to facilitate the movement of air/charge in the cylinder. The engines may also have non-circular, preferably rectangular, cross-section pistons and cylinders. The engines also may include a split crankshaft. The engines may use the pumping motion of the engine piston to supercharge the cylinder with air/charge. The engines also may operate in an inverted orientation in which the piston is closer to the local gravitationally dominant terrestrial body's center of gravity at top dead center position than at bottom dead center position.

Probable Assignee: OUEST ENGINES LLC

Earliest Publication Date: 20181004

