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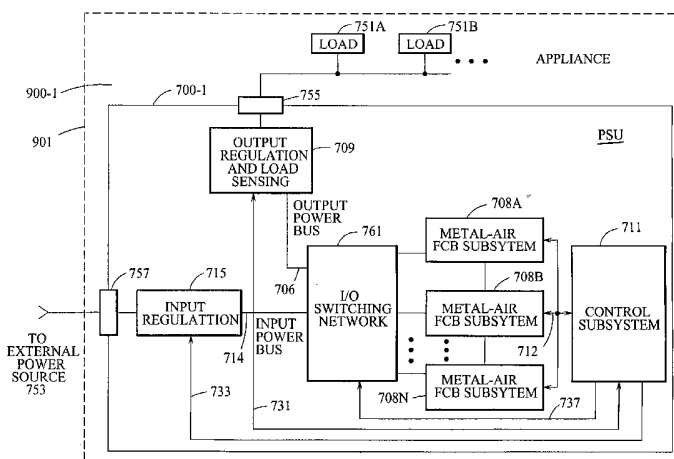
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(54) Title: REFUELABLE AND RECHARGEABLE METAL-AIR FUEL CELL BATTERY POWER SUPPLY UNIT FOR INTEGRATION INTO AN APPLIANCE



(57) Abstract: A refuelable and rechargeable metal-air FCB based power supply unit for integration into a device/system for generating and providing electrical power to at least one electrical-energy-consuming load device disposed therein. An external power source is used to recharge the metal-air FCB subsystems embodied therein. A control subsystem automatically transitions between discharging mode (wherein at least one metal-air FCB subsystem supplies electrical power to the electrical power-consuming load device) and a recharging mode (wherein the external power source is electrically coupled to at least one metal-air FCB subsystem to thereby recharge the metal-air FCB subsystem(s)). The metal-air FCB subsystem(s) are refueled by manually loading and unloading metal-fuel from the metal-air FCB subsystem(s). Preferably, electrical power provided to the at least one electrical power-consuming load device is supplied solely by electrical power generated by discharging metal-fuel in the metal-air fuel cell battery subsystem(s).

WO 02/035627 A3

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| A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01M2/10 H01M12/08 H01M10/42 | | |
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| According to International Patent Classification (IPC) or to both national classification and IPC | | |
| B. FIELDS SEARCHED | | |
| Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01M | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | |
| Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ | | |
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