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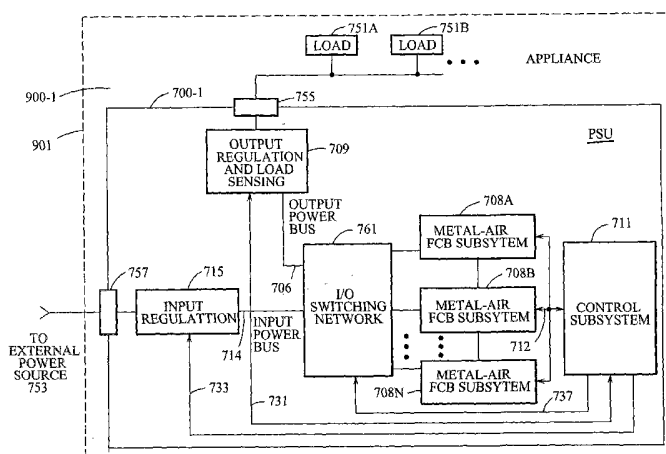
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(54) Title: APPLIANCE WITH REFUELABLE AND RECHARGEABLE METAL-AIR FUEL CELL BATTERY POWER SUPPLY UNIT INTEGRATED THEREIN



(57) Abstract: A device/system having an integrated refuelable and rechargeable metal-air FCB based power supply unit 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).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H01M2/10 H01M12/08 H01M10/42

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00 36690 A (ELECTRIC FUEL LTD ;SHRIM YARON (IL); GIVON MENACHEM (IL); ROSENBER) 22 June 2000 (2000-06-22)  figure 34  ---	1-4, 6-12, 14-23, 25-28, 30-48
Y	WO 99 18627 A (FARIS SADEG M ;REVEO INC (US); TSAI TSEPIN (US); YAO WAYNE (US); C) 15 April 1999 (1999-04-15)  claims 39-41, 58, 63, 73, 74, 80, 101, 114, 117, 118, 175-186  ---  -/--	1-4, 6-12, 14-23, 25-28, 30-48

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*G\* document member of the same patent family

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