

Title (en)
SCALABLE INTELLIGENT POWER SUPPLY SYSTEM AND METHOD

Title (de)
SKALIERBARES INTELLIGENTES STROMVERSORGUNGSSYSTEM UND -VERFAHREN

Title (fr)
SYSTEME ET PROCEDE D'ALIMENTATION ELECTRIQUE INTELLIGENTS ET EVOLUTIFS

Publication
EP 1999806 A4 20150218 (EN)

Application
EP 07763158 A 20070209

Priority

- US 2007061928 W 20070209
- US 77177106 P 20060209
- US 78195906 P 20060312
- US 67285307 A 20070208
- US 67295707 A 20070208

Abstract (en)
[origin: WO2007092955A2] A scalable intelligent power-supply system and method capable of powering a defined load for a specified period of time is disclosed and claimed. Multiple external AC and DC inputs supply power to the system if available and required. An internal DC input from a back-up energy source is on board. The back-up energy source is scalable by adding additional energy cartridges such as batteries in racks mounted within frames of the system. The AC and DC inputs (including the internal DC input) are controlled, measured, sensed, and converted by circuitry controlled by the microprocessor into multiple AC and/or DC outputs. A microprocessor manages power input to, within, and output from the system. The performance of a Lithium-ion batteries used to power an automobile can be determined on the basis individual battery packs or individual battery cells within the packs. This enables the clusters or groups of Lithium ion batteries to be used in a vehicle such that these clusters operate and function as a "gas" tank or more appropriately as an "energy" tank.

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B60L 58/19 (2019.01 - EP); **G01R 31/3835** (2018.12 - EP); **H01M 10/4207** (2013.01 - EP US); **H01M 10/425** (2013.01 - EP); **H01M 10/482** (2013.01 - EP US); **H02J 1/001** (2020.01 - EP US); **H02J 1/10** (2013.01 - EP US); **H02J 7/0063** (2013.01 - EP US); **H02J 7/0068** (2013.01 - EP); **H02J 7/007** (2013.01 - EP US); **H02J 7/007182** (2020.01 - EP US); **H02J 7/1423** (2013.01 - EP); **H02J 7/36** (2013.01 - EP); **B60L 2270/32** (2013.01 - EP); **B60L 2270/34** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (2013.01 - EP)

Citation (search report)

- [XY] EP 1004927 A2 20000531 - EASTMAN KODAK CO [US]
- [XY] EP 0765023 A2 19970326 - IBM [US]
- [XY] US 2003039118 A1 20030227 - OSIECKI SCOTT W [US], et al
- [Y] EP 0624944 A2 19941117 - CANON KK [JP]
- [Y] US 6046574 A 20000404 - BARANOWSKI ROBERT [US], et al
- See references of WO 2007092955A2

Cited by
FR3130457A1; WO2023110775A1

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