

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 A2 20081210 (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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CPC (source: EP US)
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)

Cited by
FR3130457A1; WO2023110775A1

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Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007092955 A2 20070816; WO 2007092955 A3 20080619; CA 2642527 A1 20070816; CA 2642527 C 20120522; CA 2771091 A1 20070816; CA 2771091 C 20160830; EP 1999806 A2 20081210; EP 1999806 A4 20150218

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US 2007061928 W 20070209; CA 2642527 A 20070209; CA 2771091 A 20070209; EP 07763158 A 20070209