

Title (en)
POWER SUPPLY MODULES HAVING A UNIFORM DC ENVIRONMENT

Title (de)
NETZTEILMODULE MIT GLEICHFÖRMIGER GLEICHSTROMUMGEBUNG

Title (fr)
MODULES D'ALIMENTATION ÉLECTRIQUE AYANT UN ENVIRONNEMENT DE COURANT CONTINU UNIFORME

Publication
EP 2078316 A2 20090715 (EN)

Application
EP 07844163 A 20071011

Priority

- US 2007081082 W 20071011
- US 54900606 A 20061012
- US 54901306 A 20061012

Abstract (en)
[origin: WO2008045996A2] A battery pack connection scheme is shown that provides a synchronized DC environment for every cell (401-405) in the pack (400), such that every cell in the same or similar voltage level in the pack sees exactly the same voltage and current environment. In some embodiments, a pack (100) is provided having a positive load connection terminal (106) and multiple batteries (101, 102) connected in parallel to the terminal. The connections are made via respective conductive paths (131, 132, 141, 142) each including a high-power DC precision cable segment (7H1-10), each of the conductive paths having a resistance suitable to allow an average charge acceptance rate of the battery pack (100) to be greater than a one-hour, or "C1", charge rate. The precision cable segments (7H1-10) preferably have matching impedances, or have matching DC resistances.

IPC 8 full level
H01M 50/209 (2021.01); **H01M 50/242** (2021.01); **H01M 50/503** (2021.01); **H01M 50/509** (2021.01); **H01M 50/516** (2021.01)

CPC (source: EP US)
H01M 50/209 (2021.01 - EP US); **H01M 50/242** (2021.01 - EP US); **H01M 50/503** (2021.01 - EP US); **H01M 50/509** (2021.01 - EP US); **H01M 50/516** (2021.01 - EP US); **H02J 7/0014** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP)

Citation (search report)
See references of WO 2008045996A2

Citation (examination)
WO 2008035874 A1 20080327 - LG CHEMICAL LTD [KR], et al

Designated contracting state (EPC)
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DOCDB simple family (publication)
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