

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)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

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**WO 2008045996 A2 20080417**; **WO 2008045996 A3 20081030**; BR PI0719878 A2 20140610; EP 2078316 A2 20090715

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**US 2007081082 W 20071011**; BR PI0719878 A 20071011; EP 07844163 A 20071011