

Title (en)
RECONFIGURABLE CAPACITIVE ENERGY STORAGE DEVICE, POWER SUPPLY SYSTEM AND ELECTRIC VEHICLE INCORPORATING SAID DEVICE

Title (de)
REKONFIGURIERBARE KAPAZITIVE ENERGIESPEICHERVORRICHTUNG, STROMVERSORGUNGSSYSTEM UND ELEKTRISCHES FAHRZEUG MIT DIESER VORRICHTUNG

Title (fr)
DISPOSITIF RECONFIGURABLE DE STOCKAGE D'ENERGIE PAR EFFET CAPACITIF, SYSTEME D'ALIMENTATION ET VEHICULE ELECTRIQUE INTEGRANT CE DISPOSITIF

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Application
EP 16748277 A 20160720

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Abstract (en)
[origin: WO2017013179A1] The invention is intended for use in the field of electrical energy storage by means of the capacitive effect, in particular for powering electric or hybrid autonomous vehicles. The invention relates to an electrical energy storage device that is reconfigurable, i.e. the internal connections between the different constituent energy storage modules can be modified. The device (100) according to the invention comprises: $M \times N$ storage modules (111-122), where M and N are two strictly positive natural numbers, in which each storage module can store electrical energy by means of the capacitive effect between a negative terminal and a positive terminal; contactors (131-140) arranged to allow $M_i \times N_i$ storage modules to be connected by their terminals using different associations, each association designated by a subscript i having M_i branches (151-153) connected in parallel and each branch comprising N_i storage modules connected in series, where $M_i \times N_i \leq M \times N$; and positive (102) and negative (101) electrical connection terminals to which the ends of the branches connected in parallel can be connected in each association.

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Citation (search report)
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