

Title (en)
ELECTRICAL ENERGY STORAGE DEVICE HAVING FLAT CELLS AND HEAT SINKS

Title (de)
ELEKTROENERGIE-SPEICHERVORRICHTUNG MIT FLACHZELLEN UND KÜHLKÖRPERN

Title (fr)
DISPOSITIF ACCUMULATEUR D'ÉNERGIE ÉLECTRIQUE PRÉSENTANT DES CELLULES PLATES ET DES CORPS DE REFROIDISSEMENT

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Application
EP 10706546 A 20100301

Priority

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Abstract (en)
[origin: WO2010115490A1] The invention relates to an electrical energy storage device comprising: a plurality of flat storage cells for storing and discharging electrical energy, having opposing, flat current conductors, a plurality of spacer elements for maintaining a predetermined distance between the storage cells, and a clamping means for clamping the cells into a stack, wherein cells are clamped by the clamping means at the current conductors thereof between spacer elements by means of a force fit, wherein at least some of the spacer elements are designed as heat sinks. The heat sinks have fins extending sideways out from the stack. The heat sinks are alternatively thermally connected to the current conductors by means of a soft, heat conductive material. In a further alternative, two heat sinks are disposed between adjacent current conductors. In a final alternative, the spacer elements comprise relief holes for weight reduction. The alternatives can be combined.

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Citation (search report)
See references of WO 2010115490A1

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