

Title (en)
RECHARGEABLE ELECTRIC BATTERY

Title (de)
WIEDERAUFLADBARE ELEKTRISCHE BATTERIE

Title (fr)
BATTERIE ÉLECTRIQUE RECHARGEABLE

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Application
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Abstract (en)
[origin: WO2013000828A1] The invention relates to a rechargeable electric battery (1), in particular a high-voltage battery, preferably for an electric vehicle, comprising at least two stacks (3, 4) of battery cells (5) strung together in a stacking direction (y), wherein the stacks (3, 4) are arranged adjacent to one another in a housing (12), wherein cooling air can flow through cooling air ducts (26, 27) arranged perpendicular to the stacking direction within the housing (12), wherein the cooling air ducts (26, 27) are part of a closed cooling air circuit (28) for cooling the battery (1), wherein the cooling air circuit (28) preferably has at least one cooling air fan (29) and at least one heat exchanger (30). In order to enable good cooling of the battery (1), at least one battery cell (5) is surrounded by a plastic cell casing (14), wherein the plastic cell casing (14) has a protruding sealing seam (16) that is arranged circumferentially along the narrow side (5a) of the battery cell (5), preferably approximately in the area of a cell center plane (15), wherein a clearance (17) is provided between the sealing seams (16) of adjacent battery cells (5) of a stack (3, 4).

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IPC 8 full level
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