

Title (en)
BATTERY MODULE FOR AN ELECTRICALLY-DRIVEN AIRCRAFT, METHOD FOR MANUFACTURING A BATTERY MODULE AND ELECTRICALLY-DRIVEN AIRCRAFT POWERED BY A BATTERY MODULE

Title (de)
BATTERIEMODUL FÜR EIN ELEKTRISCH ANGETRIEBENES FLUGZEUG, VERFAHREN ZUR HERSTELLUNG EINES BATTERIEMODULS UND ELEKTRISCH ANGETRIEBENES FLUGZEUG MIT EINEM BATTERIEMODUL

Title (fr)
MODULE DE BATTERIE POUR AÉRONEF À PROPULSION ÉLECTRIQUE, PROCÉDÉ DE FABRICATION DE MODULE DE BATTERIE ET AÉRONEF À PROPULSION ÉLECTRIQUE ALIMENTÉ PAR UN MODULE DE BATTERIE

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Abstract (en)
[origin: CA3226851A1] 1. A battery module (800) for an electrically-driven aircraft (100, 150) configured to house multiple battery cells (312, 314, 316, 318, 360, 8120) and prevent a battery cell fire (322) or explosion from one battery cell (312, 314, 316, 318, 360, 8120) from damaging neighboring battery cells (312, 314, 316, 318, 360, 8120), the battery module (800) comprising:- a plurality of battery cells (312, 314, 316, 318, 360, 8120);- a housing (308, 408, 508);- a plurality of cell tubes (812, 813, 814) housing said battery cells (312, 314, 316, 318, 360, 8120), each cell tube (812, 813, 814) having an elongated surface (836) and being positioned in the housing (308, 408, 508) spaced apart from each other;- a heat absorbing member (830, 831) comprising a heat absorbing material (834), wherein the heat absorbing member (830, 831) is arranged between at least two neighboring cell tubes (812, 813, 814); - the heat absorbing material (834) being configured to undergo a phase transition from an initial state of matter into a final state of matter when at least one of the plurality of cell tubes (812, 813, 814) exceeds a predetermined temperature in case of explosion or fire of at least one of the plurality of battery cells (312, 314, 316, 318, 360, 8120).

IPC 8 full level
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