Title (en)

DEVICE FOR COOLING A BATTERY PACK

Title (de)

VORRICHTUNG ZUR KÜHLUNG EINES BATTERIEPACKS

Title (fr)

DISPOSITIF DE REFROIDISSEMENT D'UN PACK-BATTERIES

Publication

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Application

EP 20848991 A 20201211

Priority

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Abstract (en)

[origin: WO2021116629A1] The invention relates to a device (2) for cooling a plurality of electronic elements (11) that are capable of releasing heat when supplying power to an appliance or vehicle, wherein the electronic elements are arranged in a housing (12), the device (2) comprises at least one element (22) for spraying a diphasic dielectric fluid (3) onto the electronic elements (11), as well as a condenser (26) with a cooling fluid circuit (23), the housing (12) comprises a receptacle (25) for collecting the dielectric fluid (3), the cooling device (2) comprises a dielectric fluid circuit (21) with a circulation pump (24), which is configured to draw the dielectric fluid (3) from the collection receptacle (25) and is directly connected to the spraying element (22), characterised in that the cooling device (2) comprises a system (4) for controlling the internal pressure of the housing (12), the control system (4) comprising a control module (41) configured to generate a control command to control the internal pressure depending on a state of the cooling device and/or a state of the appliance or vehicle.

IPC 8 full level

H01M 10/48 (2006.01); **H01M 10/613** (2014.01); **H01M 10/625** (2014.01); **H01M 10/635** (2014.01); **H01M 10/647** (2014.01); **H01M 10/6555** (2014.01); **H01M 10/6557** (2014.01); **H01M 10/6568** (2014.01); **H01M 10/6569** (2014.01); **H01M 10/659** (2014.01); **H01M 50/204** (2021.01); **H01M 50/249** (2021.01); **H01M 50/618** (2021.01); **H01M 50/673** (2021.01); **H01M 50/691** (2021.01)

CPC (source: EP US)

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