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Title

THERMAL MANAGEMENT ACTIVE DEVICE FOR A BATTERY THAT EQUIPS AN ELECTRIC VEHICLE

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Patent/ Application number

PATENT APPLICATION OSIM: A/00703/2019

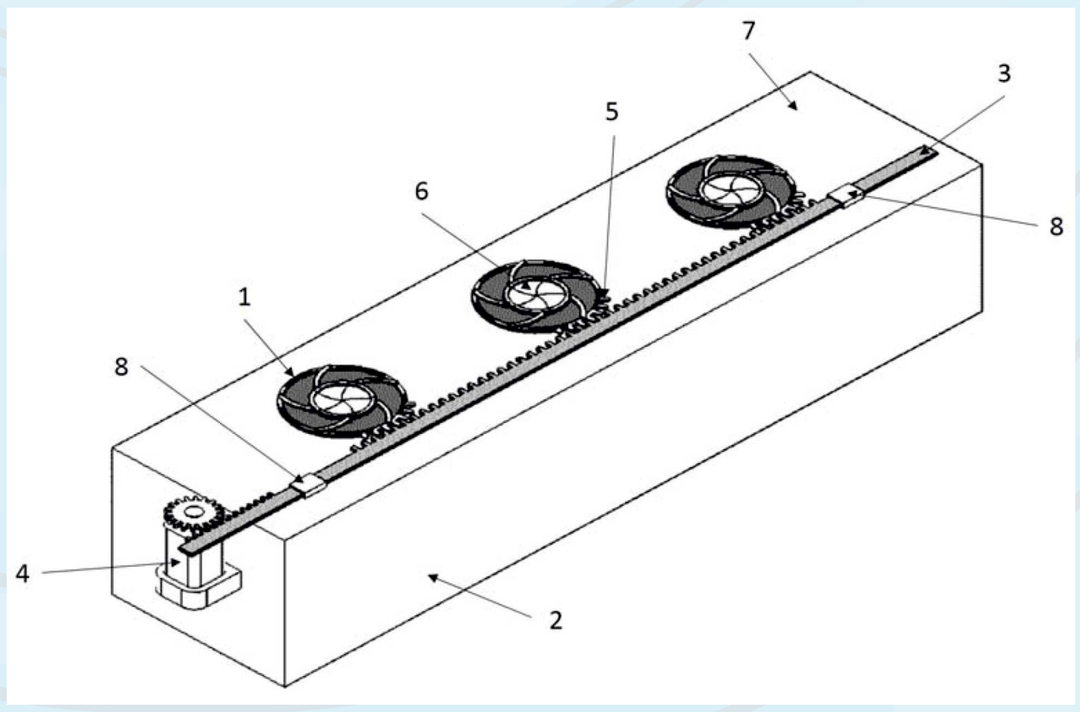
Short presentation

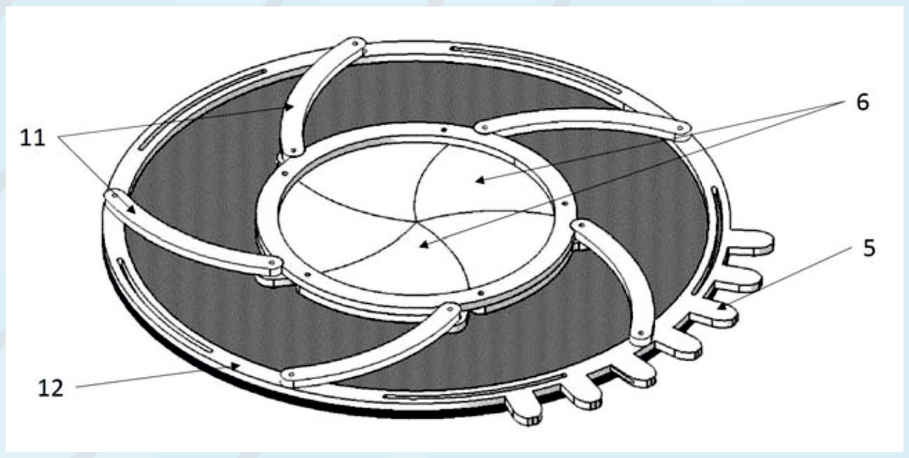
The problem solved by the invention by the active control device of the thermal management of a battery that equips an electric vehicle is maintaining a preset temperature (desired by the manufacturer depending on the dynamic performance of the electric vehicle) inside the battery housing, by natural ventilation with air at the ambient temperature of the electrochemical cells, by controlling some ventilation holes adjustable as air flow allowed. The active control device for the thermal management of a battery that is equipped with an electric vehicle is characterized by the fact that the principle of active operation is based on the sequential opening of some ventilation holes that allow the elimination of the heat inside the housing of a battery that equips an electric vehicle, in depending on the thermal charge of the battery.

Applicability

Different energy sources, batteries, electric of hybrid vehicles, thermal management systems and/or devices

Images





1-ventilation hole; 2-battery; 3-toothed rack; 4- electric motor step by step;
5- toothed sector; 6-slot; 7-housing; 8-guide;11-lever; 12- ring.