



## Title

# PASSIVE DEVICE FOR VENTILATION OF A BATTERY EQUIPPING AN ELECTRIC VEHICLE



## Inventor/s - Contact

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## Patent/ Application number

PATENT APPLICATION OSIM: A/00449/2019



## Short presentation

The functional performance of a battery equipped with an electric or hybrid vehicle is directly influenced by the ambient temperature in which they operate. At present, it is considered that for the functioning of a battery built on Lithium-ion technology (the most used at present) under optimal conditions, the temperature range of the internal environment in which the electrochemical cells are located must be between  $-15^{\circ}\text{C}$  and  $+60^{\circ}\text{C}$ . The invention relates to a passive ventilation device of a battery that equips an electric vehicle, by automatically maintaining the temperature (within predetermined limits) inside the battery housing of an electric vehicle.

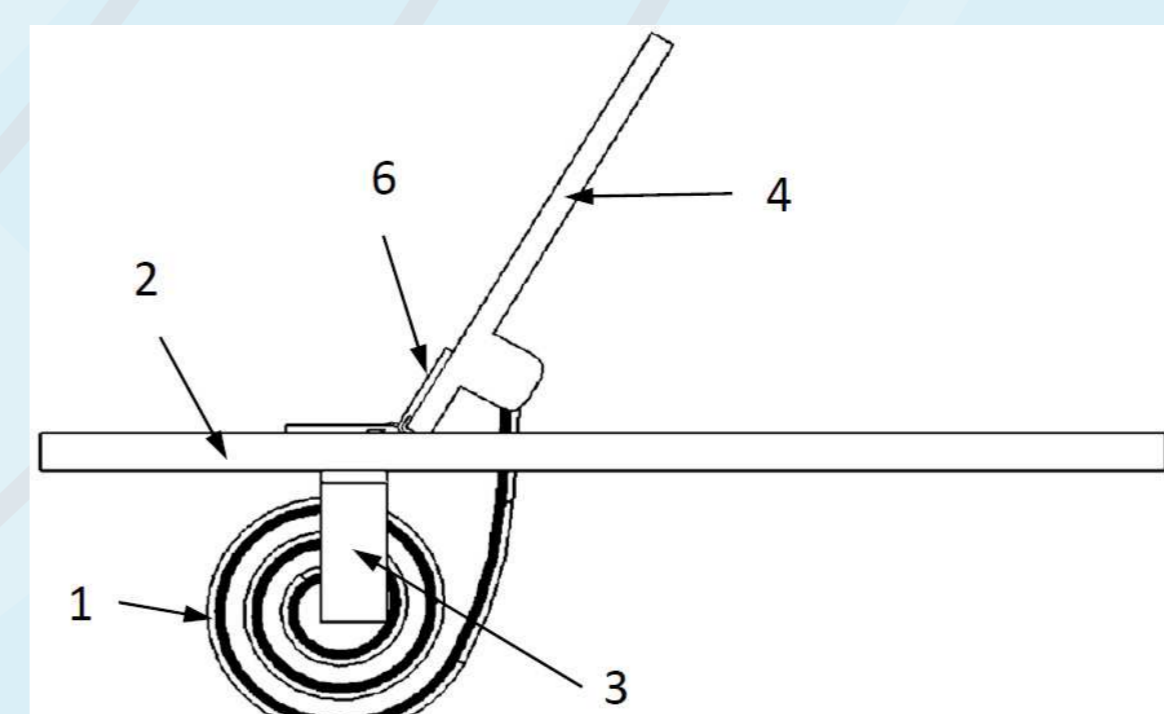
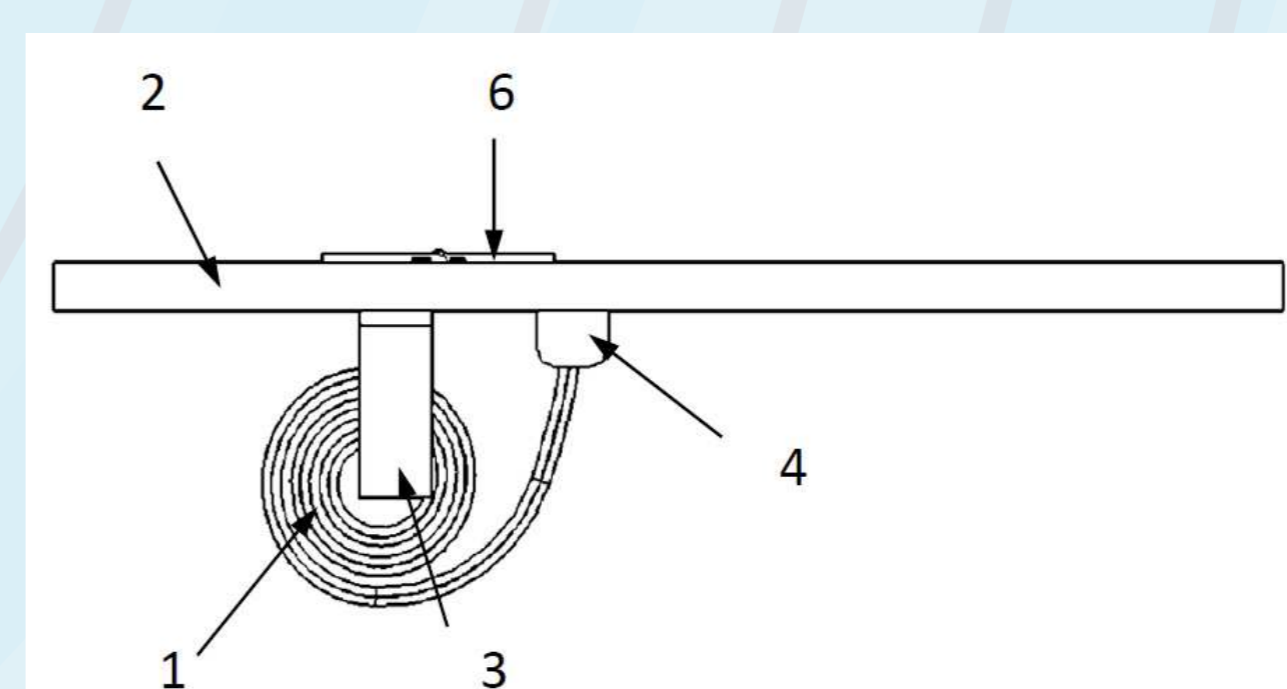
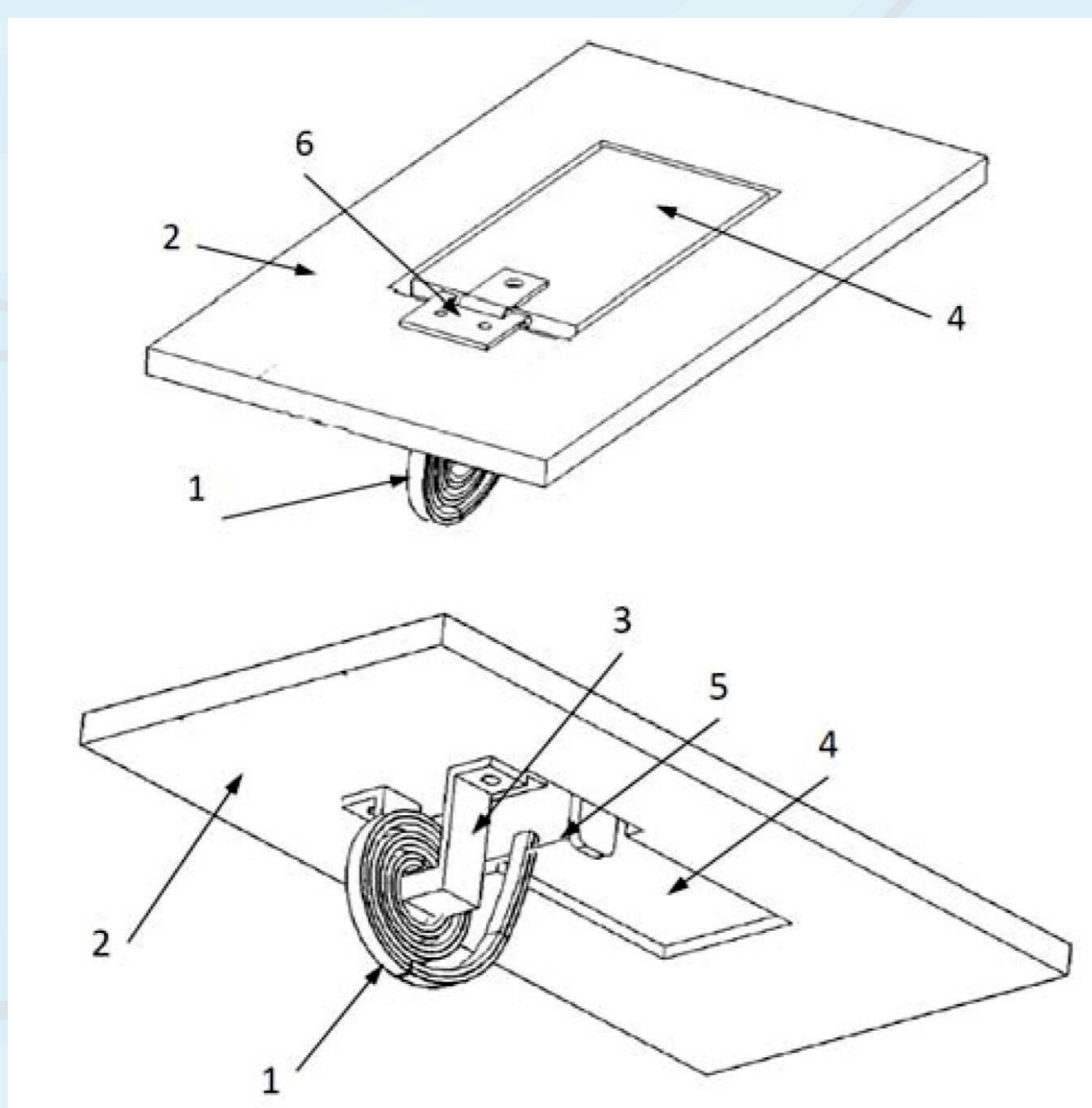


## Applicability

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



## Images



1-bimetalllic spring; 2-battery case; 3-mechanic system; 4-mobile plate; 5-fixing system; 6-hinge.