Title (en)

METHOD FOR CONTROLLING THE TEMPERATURE OF A BATTERY COMPRISING A LITHIUM SALT

Title (de)

VERFAHREN ZUR TEMPERATURREGELUNG EINER LITHIUMSALZ ENTHALTENDEN BATTERIE

Title (fr)

PROCÉDÉ DE RÉGULATION DE LA TEMPÉRATURE D'UNE BATTERIE COMPRENANT UN SEL DE LITHIUM

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Application

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Abstract (en)

[origin: WO2021074498A1] The invention relates to a method for controlling the temperature of a battery in an electric or hybrid motor vehicle by means of a system comprising a vapor compression circuit in which a first heat transfer composition flows, and a secondary circuit in which a second heat transfer composition flows, said method involving: - heat exchange between the battery and the second heat transfer composition; - heat exchange between the second heat transfer composition and the first heat transfer composition; wherein the battery comprises at least one electrochemical cell having a negative electrode, a positive electrode and an electrolyte comprising a lithium salt composition, said lithium salt composition comprising: - at least 99.75%, preferably at least 99.85%, advantageously at least 99.95%, even more advantageously 99.99% by weight of a lithium salt of bis(fluorosulfonyl)imide; - chlorides Cl- at a mass content strictly less than 20 ppm; wherein the total mass content of chlorides Cl-, fluorides F- and sulfates SO42- is preferably less than or equal to 150 ppm. The invention also relates to a system for carrying out said method.

IPC 8 full level

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