

FP:("Rimac Automobili d.o.o.")

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Sort: Relevance

Per page: 10

View: All

1 / 1

Machine translation

1. [WO/2013/079983](#) SYSTEM AND PROCESS FOR MANTAINING OF WORKING TEMEPERATURE OF BATTERY CELLS FOR STARTER ACCUMULATORS IN VEHICLES WO - 06.06.2013

Int.Class [H01M 10/0525](#) Appl.No PCT/HR2011/000045 Applicant RIMAC AUTOMOBILI D.O.O. Inventor RIMAC, Mate

The subject of the present Invention is the battery management system and procedure designed to maintain cell temperature in automobile starter batteries, containing more battery cells [8] of the new generation of lithium-ion; lithium-iron-phosphate battery cells mutually connected in series and parallel. The said system incorporates the unit [14] for cell temperature management and measurement, and voltage measurement of each individual battery cell [8] and for cell heating management [8]. The unit [14] generates in real time the temperature signals of the cells. The unit [14] incorporates a temperature sensor mounted directly on one of the cells [8]; the screen [12] that displays cell temperature data [43], total voltage or individual cell voltage [44] and the heating status [45] of the cells [8]. The said system contains data on the predefined upper temperature value t_2 and the lower temperature value t_1 , the push-button [34] to activate or deactivate the heating function of the battery cells [8]; where the working temperature of the battery cells [8] is maintained by a heater [28, 33] in the form of foil pasted over the cells, or, in case of flat cells [8], by a heater in the form of flat foil placed in between the cells [8] or by a shared heater of any form inside the casing [1].

2. [WO/2022/069910](#) BATTERY MODULE AND METHOD FOR COOLING THE BATTERY MODULE WO - 07.04.2022

Int.Class [H01M 10/613](#) Appl.No PCT/HR2021/000008 Applicant RIMAC AUTOMOBILI D.O.O. Inventor TOTMAN, Mel

Battery module and method for cooling the battery module are provided. The battery module comprises a housing and a plurality of battery cells positioned inside the housing, an inlet for feeding the cooling fluid into the housing and an outlet for feeding the cooling fluid away from the housing, a first cell holder and a second cell holder for holding battery cells, each cell holder positioned inside the housing, the first cell holder and the second cell holder spaced apart and each cell holder connected to the housing. The module further comprises a first cooling channel partially bounded by a housing cover and the first cell holder, a second cooling channel partially bounded by a housing base and the second cell holder, a middle cooling channel partially bounded by the first cell holder and the second cell holder. The first cooling channel and the second cooling channel are fluidly connected both to the inlet and the middle cooling channel, and the middle cooling channel is fluidly connected with the outlet. The battery cells are projecting inside the first cooling channel and/or the second cooling channel.

1 / 1

