

Title (en)  
METHOD FOR CALIBRATING AN ELECTRONIC EXPANSION VALVE WITHIN A THERMAL MANAGEMENT DEVICE FOR A MOTOR VEHICLE

Title (de)  
VERFAHREN ZUR KALIBRIERUNG EINES ELEKTRONISCHEN EXPANSIONSVENTILS INNERHALB EINER WÄRMEMANAGEMENTVORRICHTUNG FÜR EIN KRAFTFAHRZEUG

Title (fr)  
PROCÉDÉ DE CALIBRAGE D'UNE VANNE D'EXPANSION ÉLECTRONIQUE AU SEIN D'UN DISPOSITIF DE GESTION THERMIQUE D'UN VÉHICULE AUTOMOBILE

Publication  
**EP 4330607 A1 20240306 (FR)**

Application  
**EP 22725745 A 20220426**

Priority  
• FR 2104529 A 20210429  
• EP 2022060974 W 20220426

Abstract (en)  
[origin: WO2022229138A1] Method for calibrating an electronic expansion valve (5, 7, 8) within a thermal management device (1) for a motor vehicle, the opening of said electronic expansion valve (5, 7, 8) being able to be brought about by means of a stepping electric motor, the electronic expansion valve (5, 7, 8) comprising a first end stop (X1), referred to as the bottom stop in the direction of maximum closure of the electronic expansion valve (5, 7, 8) and a second end stop (X2), referred to as the top stop in the direction of maximum opening of the electronic expansion valve (5, 7, 8), each end stop being a reference position enabling calibration of the electronic expansion valve, said method comprising the following steps: - determining a predicted position (Z) of opening of the electronic expansion valve (5, 7, 8), - determining the number of steps between the predicted position (Z) of opening of the electronic expansion valve (5, 7, 8) and the first (X1) and second (X2) end stops, - selecting, as reference position, the end stop (X1, X2) that is the lowest number of steps away from the predicted position (Z) of opening, - calibrating the electronic expansion valve (5, 7, 8) by opening or closing said electronic expansion valve (5, 7, 8) as far as its selected reference position.

IPC 8 full level  
**F25B 41/35** (2021.01); **F25B 5/02** (2006.01); **F25B 41/39** (2021.01); **F25B 49/02** (2006.01)

CPC (source: EP KR US)  
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Citation (search report)  
See references of WO 2022229138A1

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BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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