

Title (en)

THERMAL CONDITIONING SYSTEM FOR A MOTOR VEHICLE

Title (de)

WÄRMEKONDITIONIERUNGSSYSTEM FÜR EIN KRAFTFAHRZEUG

Title (fr)

SYSTÈME DE CONDITIONNEMENT THERMIQUE POUR VÉHICULE AUTOMOBILE

Publication

EP 4247653 A1 20230927 (FR)

Application

EP 21811337 A 20211116

Priority

- FR 2012035 A 20201123
- EP 2021081755 W 20211116

Abstract (en)

[origin: WO2022106374A1] The invention relates to a thermal conditioning system (100) for a motor vehicle, comprising a coolant circuit (50) comprising a main loop (A) comprising, successively: - a compression device (1); - a first heat exchanger (2); - a first expansion device (3); - a second heat exchanger (4); - a third heat exchanger (6); and, - an accumulation device (7) for coolant; wherein an internal volume of a portion of the main loop (A) extending from an outlet (2b) of the first heat exchanger (2) to an inlet (3a) of the first expansion device (3) defines a first reference volume, wherein an internal volume of the accumulation device (7) defines a second reference volume, and wherein the ratio of the first reference volume to the second reference volume is greater than 0.2 and preferably greater than 0.4.

IPC 8 full level

B60H 1/00 (2006.01); **B60H 1/32** (2006.01); **F25B 43/00** (2006.01)

CPC (source: EP US)

B60H 1/00921 (2013.01 - EP US); **B60H 1/32284** (2019.04 - EP US); **B60H 1/323** (2013.01 - EP US); **F25B 43/006** (2013.01 - US); **F25B 43/006** (2013.01 - EP); **F25B 2500/01** (2013.01 - US)

Citation (search report)

See references of WO 2022106374A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

FR 3116471 A1 20220527; **FR 3116471 B1 20221014**; CN 116745150 A 20230912; EP 4247653 A1 20230927; US 2023406067 A1 20231221; WO 2022106374 A1 20220527

DOCDB simple family (application)

FR 2012035 A 20201123; CN 202180091540 A 20211116; EP 2021081755 W 20211116; EP 21811337 A 20211116; US 202118253985 A 20211116