

Title (en)

IMPROVED THERMAL DEVICE FOR AIR-CONDITIONING THE CABIN OF A MOTOR VEHICLE

Title (de)

VERBESSERTE THERMISCHE VORRICHTUNG ZUR LUFTKLIMATISIERUNG DES INNENRAUMS EINES KRAFTFAHRZEUGS

Title (fr)

DISPOSITIF THERMIQUE AMELIORE POUR LE CONDITIONNEMENT D'AIR DANS UN HABITACLE AUTOMOBILE

Publication

EP 2329201 A1 20110608 (FR)

Application

EP 09748377 A 20090930

Priority

- FR 2009001167 W 20090930
- FR 0805434 A 20081001

Abstract (en)

[origin: WO2010037932A1] Thermal air-conditioning device comprising a first heat exchanger 17, first pipes 25, 27 intended to be connected to a first heat-transfer fluid circuit, a second heat exchanger 41, and second pipes 47, 49 intended to be connected to a second heat-transfer fluid circuit, characterized in that it further comprises first additional pipes 33, 35 intended to be connected to the said second circuit, second additional pipes 55, 57 intended to be connected to the said first circuit, a first fluidic member 29; 31; 37; 39 arranged in such a way as to selectively connect the first pipes 25, 27 and the first additional pipes 33, 35 at the inlet and outlet of the first heat exchanger 17, a second fluidic member 51; 53; 59; 61 arranged in such a way as to selectively connect the second pipes 47, 49 and the second additional pipes 55, 57 at the inlet and outlet of the second heat exchanger 41, and a control member arranged in such a way as to actuate the first fluidic member 29; 31; 37; 39 and the second fluidic member 51; 53; 59; 61 in accordance with a predetermined control law.

IPC 8 full level

F24F 3/08 (2006.01)

CPC (source: EP)

F24F 3/08 (2013.01)

Citation (search report)

See references of WO 2010037932A1

Citation (examination)

JP 2001215037 A 20010810 - RYOBI LTD

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

FR 2936446 A1 20100402; FR 2936446 B1 20130426; EP 2329201 A1 20110608; JP 2012504523 A 20120223; JP 5524969 B2 20140618; WO 2010037932 A1 20100408

DOCDB simple family (application)

FR 0805434 A 20081001; EP 09748377 A 20090930; FR 2009001167 W 20090930; JP 2011529594 A 20090930