

Title (en)

Heat exchanger for heating a motor vehicle

Title (de)

Wärmeübertrager zur Beheizung eines Kraftfahrzeuges

Title (fr)

Echangeur de chaleur pour le chauffage d'un véhicule automobile

Publication

EP 2187157 A3 20131016 (DE)

Application

EP 09173650 A 20091021

Priority

DE 102008058100 A 20081118

Abstract (en)

[origin: EP2187157A2] The heat exchanger (1) has multiple flow channels, where a heat carrier fluid flows through a primary side of the flow channels and air flows through a secondary side of the flow channels. The heat carrier fluid flow and the air flow are guided in the cross current flow. The flow channels are formed by a packet of disks (2), where a disk has two disk halves.

IPC 8 full level

F28D 1/03 (2006.01)

CPC (source: EP)

F28D 1/0341 (2013.01)

Citation (search report)

- [XYI] JP H03140795 A 19910614 - HITACHI LTD
- [XYI] US 2007039714 A1 20070222 - LOUP DIDIER [FR], et al
- [Y] WO 02063223 A1 20020815 - SHOWA DENKO KK [JP], et al
- [A] US 5678419 A 19971021 - SANADA RYOICHI [JP], et al
- [A] DE 69312046 T2 19971030 - DENSO CORP [JP]

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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

DOCDB simple family (publication)

EP 2187157 A2 20100519; EP 2187157 A3 20131016; EP 2187157 B1 20190313; CN 101738100 A 20100616; DE 102008058100 A1 20100520

DOCDB simple family (application)

EP 09173650 A 20091021; CN 200910221258 A 20091105; DE 102008058100 A 20081118