

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]

Cited by

CN107228582A; FR3068118A1; CN110998206A; FR2993354A1; US2016003128A1; US10145295B2; WO2014009537A1; WO2018234450A1; WO2018019174A1

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DOCDB simple family (publication)

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

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