

Title (en)

Header box for heat exchanger

Title (de)

Sammelkasten für Wärmetauscher

Title (fr)

Boîte collectrice pour échangeur de chaleur

Publication

**EP 1780489 A1 20070502 (FR)**

Application

**EP 06122903 A 20061025**

Priority

FR 0511133 A 20051028

Abstract (en)

The box has a collector plate (26) provided with reception openings (28) for inserting heat exchanging tubes (18), and a distribution plate (38) delimiting chambers closed by a cover (44). The collector plate (26) is an embossed sign plate and includes an outer face (56) from which collars (58) extend for receiving the tubes. The distribution plate has a plane lower face (62) contacting with a plane inner face (54) of the collector plate by forming an intake stop for the tubes, where the collector plate and the distribution plate are in mutual contact by the plane faces. An independent claim is also included for a method of manufacturing a collector box.

IPC 8 full level

**F28F 9/02** (2006.01)

CPC (source: EP)

**F28D 1/05391** (2013.01); **F28F 9/0214** (2013.01); **F28F 9/0224** (2013.01); **F28F 9/0278** (2013.01); **F28F 9/182** (2013.01); **F28D 2021/0085** (2013.01)

Citation (search report)

- [XY] FR 2793016 A1 20001103 - VALEO CLIMATISATION [FR]
- [YA] WO 0150080 A2 20010712 - VALEO CLIMATISATION [FR], et al
- [Y] FR 2844346 A1 20040312 - VALEO CLIMATISATION [FR]
- [XA] FR 2851331 A1 20040820 - VALEO CLIMATISATION [FR]
- [Y] US 2003188857 A1 20031009 - KAWAKUBO MASAOKI [JP], et al
- [DY] EP 0563471 A1 19931006 - MODINE MFG CO [US]
- [A] US 2003155109 A1 20030821 - KAWAKUBO MASAOKI [JP], et al

Cited by

FR2962206A1; FR2947332A1; CN109952478A; EP3091324A1; JP2012093075A; CN103154659A; FR3034184A1; US9952005B2; US9816766B2; WO2012043565A1; WO2012000844A1; WO2016156192A1; EP2588828B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1780489 A1 20070502**; FR 2892804 A1 20070504; FR 2892804 B1 20140627

DOCDB simple family (application)

**EP 06122903 A 20061025**; FR 0511133 A 20051028