

Title (en)

HEAT EXCHANGER, IN PARTICULAR RADIATOR FOR MOTOR VEHICLES

Title (de)

WÄRMEÜBERTRAGER, INSBESONDERE KÜHLMITTELKÜHLER FÜR KRAFTFAHRZEUGE

Title (fr)

ECHANGEUR THERMIQUE, NOTAMMENT RADIATEUR POUR VEHICULES A MOTEUR

Publication

EP 1805470 B1 20120425 (DE)

Application

EP 05797706 A 20051012

Priority

- EP 2005010978 W 20051012
- DE 102004050159 A 20041014

Abstract (en)

[origin: US2008029253A1] The invention relates to a heat exchanger, in particular a radiator for motor vehicles comprising a block consisting of tubes and ribs and a lower and upper collection chamber, the lower collection chamber having several chambers which are separated from one another by partitions and between which a fluidic connection can be established. If necessary, by means of a displaceable actuator via connection orifices (17, 18, 19) that are located in a connection channel (16). According to the invention, the actuator is configured as a piston (30) that can be displaced axially between an open and a closed position and the cross-sections of the connection channel (16) and the piston (30) taper from the exterior to the interior in the vicinity of the connection orifices (17, 18, 19).

IPC 8 full level

F28F 9/02 (2006.01); **F01P 11/02** (2006.01); **F16K 1/38** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP US)

F01P 11/0204 (2013.01 - EP US); **F01P 11/0276** (2013.01 - EP US); **F24D 19/0073** (2013.01 - EP US); **F28D 1/05366** (2013.01 - EP US); **F28F 9/0204** (2013.01 - EP US); **F28F 27/02** (2013.01 - EP US); **F01P 2003/182** (2013.01 - EP US); **F28F 2250/06** (2013.01 - EP US)

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

DOCDB simple family (publication)

US 2008029253 A1 20080207; **US 8210244 B2 20120703**; AT E555359 T1 20120515; DE 102004050159 A1 20060427; EP 1805470 A1 20070711; EP 1805470 B1 20120425; WO 2006042680 A1 20060427

DOCDB simple family (application)

US 57721105 A 20051012; AT 05797706 T 20051012; DE 102004050159 A 20041014; EP 05797706 A 20051012; EP 2005010978 W 20051012