

Title (en)

STACKED-PLATE HEAT EXCHANGER, IN PARTICULAR CHARGE-AIR COOLER

Title (de)

STAPELSCHEIBEN-WÄRMEÜBERTRAGER, INSBESONDERE LADELÜFTKÜHLER

Title (fr)

ECHANGEUR THERMIQUE A EMPILEMENT DE PLAQUES, EN PARTICULIER REFROIDISSEUR D'AIR DE SURALIMENTATION

Publication

EP 1929232 B1 20151202 (DE)

Application

EP 06805664 A 20060907

Priority

- EP 2006008737 W 20060907
- DE 102005044291 A 20050916

Abstract (en)

[origin: WO2007031230A1] The invention relates to a stacked-plate heat exchanger, in particular a charge-air cooler, having a plurality of elongate plates (1-3;21-23;51-53) which are stacked on top of one another and are connected, in particular soldered, to one another, which plates (1-3;21-23;51-53) delimit a cavity (55-57) for conducting a medium to be cooled, for example charge air, in the longitudinal direction of the plates, and a further cavity (63-65) for conducting a coolant, wherein the plates (1-3;21-23;51-53) have in each case one inlet port and one outlet port for the medium which is to be cooled. In order to provide a stacked-plate heat exchanger which can be produced cost-effectively and has a long service life even at high temperatures, according to the invention, at least one coolant port (14-16) extends partially around a port (12) for the medium to be cooled.

IPC 8 full level

F28D 9/00 (2006.01)

CPC (source: EP KR US)

F28D 9/00 (2013.01 - KR); **F28D 9/005** (2013.01 - EP US); **F28F 3/00** (2013.01 - KR); **F28F 9/0246** (2013.01 - EP US); **F28D 2021/0082** (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)

WO 2007031230 A1 20070322; CN 101297172 A 20081029; CN 101297172 B 20100929; DE 102005044291 A1 20070329; EP 1929232 A1 20080611; EP 1929232 B1 20151202; ES 2563405 T3 20160315; KR 101300452 B1 20130910; KR 20080055921 A 20080619; PL 1929232 T3 20160630; US 2008264619 A1 20081030; US 8393384 B2 20130312

DOCDB simple family (application)

EP 2006008737 W 20060907; CN 200680040196 A 20060907; DE 102005044291 A 20050916; EP 06805664 A 20060907; ES 06805664 T 20060907; KR 20087009125 A 20060907; PL 06805664 T 20060907; US 6690106 A 20060907