

Title (en)
Cooling module

Title (de)
Kühlmodul

Title (fr)
Module de refroidissement

Publication
EP 2280238 B1 20160727 (DE)

Application
EP 09290592 A 20090728

Priority
EP 09290592 A 20090728

Abstract (en)
[origin: EP2280238A1] The module (1) has a heat exchanger (2) i.e. coolant-heat exchanger (3), for cooling a coolant of an internal combustion engine. A fastening unit (6) fixes another heat exchanger (4) i.e. charge air cooler (5), at the former heat exchanger. The fastening unit comprises a latching part (8) i.e. bolt (9), for latching connection of the latching part with the former heat exchanger and/or the latter heat exchanger. The two heat exchangers comprise an opening for insertion of the latching part. The latching part comprises a flexible latching arm with a latching lug. An independent claim is also included for a method for manufacturing a cooling module.

IPC 8 full level
F28D 1/04 (2006.01); **F28F 9/00** (2006.01)

CPC (source: EP)
F01D 25/16 (2013.01); **F28D 1/0443** (2013.01); **F28F 9/002** (2013.01); **F28F 2275/143** (2013.01)

Cited by
CN110514052A; DE102011106558A1; EP3348944A1; CN108302971A; EP2729750B1

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

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