

Title (en)
Waste gas recovery cooling module

Title (de)
Abgasrückführungs-Kühlermodul

Title (fr)
Module de refroidissement de recirculation de gaz d'échappement

Publication
EP 2518300 B1 20200826 (DE)

Application
EP 12161207 A 20120326

Priority
DE 102011001854 A 20110406

Abstract (en)
[origin: EP2518300A1] The exhaust gas recirculation cooler module has an exhaust gas inlet (16), an exhaust gas outlet (18) and an exhaust bypass duct, where an inner housing is provided with an exhaust gas cooling channel and an outer housing (26). The exhaust gas cooling channel is formed from two spatially arranged parallel cooling channel loops (33,37), which are fluidly connected in series. A mixing casing part (14) has the exhaust bypass channel and a screened connecting channel. A bypass valve is folded between a bypass position and a cooling position.

IPC 8 full level
F28F 7/02 (2006.01); **F02M 26/25** (2016.01); **F02M 26/26** (2016.01); **F02M 26/28** (2016.01); **F02M 26/32** (2016.01); **F28D 7/10** (2006.01); **F28D 7/16** (2006.01); **F28D 21/00** (2006.01); **F28F 9/00** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP)
F02M 26/25 (2016.02); **F02M 26/26** (2016.02); **F02M 26/28** (2016.02); **F02M 26/32** (2016.02); **F28D 7/10** (2013.01); **F28D 7/1692** (2013.01); **F28D 21/0003** (2013.01); **F28F 7/02** (2013.01); **F28F 9/00** (2013.01); **F28F 27/02** (2013.01); **F02M 26/24** (2016.02); **F28F 2215/00** (2013.01)

Citation (examination)
• EP 2123895 A1 20091125 - BENTELER AUTOMOBILTECHNIK GMBH [DE]
• JP 3058784 U 19990622

Cited by
CN108301941A; CN107304733A; CN112253341A; WO2018206108A1; EP2818822A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2518300 A1 20121031; **EP 2518300 B1 20200826**; DE 102011001854 A1 20121011

DOCDB simple family (application)
EP 12161207 A 20120326; DE 102011001854 A 20110406