Title (en)

DEVICE FOR MIXING A FLOW OF INTAKE GAS AND A FLOW OF RECIRCULATED EXHAUST GAS

Title (de)

VORRICHTUNG ZUM MISCHEN EINER ANGESAUGTEN GASSTRÖMUNG UND EINER RÜCKGEFÜHRTEN ABGASSTRÖMUNG

Title (fr)

DISPOSITIF DE MELANGE D'UN FLUX DE GAZ D'ADMISSION ET D'UN FLUX DE GAZ D'ECHAPPEMENT RECIRCULES

Publication

EP 2443329 A1 20120425 (FR)

Application

EP 10724770 A 20100604

Priority

• EP 2010057840 W 20100604
• FR 0902892 A 20090615

Abstract (en)

[origin: WO2010145955A1] The invention relates to a device for mixing a flow of intake gas and a flow of recirculated exhaust gases for the purpose of intaking said gases in the cylinder head of an automobile heat engine, the device comprising a heat exchanger (10) comprising a heat-exchange core (11) for cooling gas (G), the heat-exchange core (11) including an intake side for the gases to be cooled and an output side for the cooled gases, a collector (30) for distributing the gases in the cylinder head, a means (20) for injecting the flow of recirculated exhaust gases from the engine (H) into the flow of gas (G) cooled by the heat-exchange core (11), and at least one case for guiding the gases into the gas-mixing device, said device being characterised in that the injection means (20) connects with the guiding case on the output side of the heat-exchange core (11).

IPC 8 full level

F02B 29/04 (2006.01); **F02M 25/07** (2006.01); **F02M 35/104** (2006.01)

CPC (source: EP)

F02B 29/0462 (2013.01); **F02B 29/0475** (2013.01); **F02M 26/20** (2016.02); **F02M 35/10222** (2013.01); **F02M 35/10354** (2013.01); **F02M 35/112** (2013.01); F02M 26/19 (2016.02); Y02T 10/12 (2013.01)

Citation (search report)

See references of WO 2010145955A1

Citation (examination)

EP 1128057 A1 20010829 - IVECO FIAT [IT]

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 SE SI SK SM TR

DOCDB simple family (publication)

FR 2946698 A1 20101217; **FR 2946698 B1 20150828**; EP 2443329 A1 20120425; WO 2010145955 A1 20101223

DOCDB simple family (application)

FR 0902892 A 20090615; EP 10724770 A 20100604; EP 2010057840 W 20100604