

Title (en)

Heat exchanger for an EGR system with an integrated by-pass duct.

Title (de)

Wärmeaustauscher für ein EGR System mit integrierter Bypassleitung

Title (fr)

Echangeur de chaleur pour un système EGR avec un conduit de dérivation intégré

Publication

**EP 1367253 B1 20060712 (EN)**

Application

**EP 03380127 A 20030528**

Priority

ES 200201218 A 20020528

Abstract (en)

[origin: EP1367253A1] A heat exchanger (1) for an EGR system with an integrated by-pass duct (9). A heat exchanger for recirculated exhaust gases of an internal combustion engine is proposed with an integrated by-pass duct (9) through which the exhaust gases can recirculate during the engine starting and/or in low temperature or load conditions. <??>The exchanger is formed by a cylindrical casing (2) inside of which the typical refrigeration chamber (3) in this type of devices is assembled, as well as the by-pass duct (9) . As a coupling means to the gas intake device of the EGR system, a flange (15,16) is used with a housing for the refrigerating tubes of the refrigeration chamber and another housing (22) for the by-pass duct; with a separation area (23) between said housings. <??>The by-pass duct can be a double-walled duct with an intermediate air chamber to prevent the cooling of the gases circulating through it. <IMAGE>

IPC 8 full level

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CPC (source: EP ES)

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Cited by

JP2015025604A; DE102005040612A1; EP2743488A1; CN104500282A; ES2321783A1; EP2295921A3; ES2322728A1; EP2944913A1; US2015330712A1; CN105089860A; EP2025913A1; US7721792B2; DE102012019254A1; US9169756B2; WO2008003486A1; WO2014090792A1; WO2012143462A3; WO2007060172A1; WO2005111385A3; US7931013B2; US8118082B2; US8464778B2; US9803544B2; EP2295921B1

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