

Title (en)

Exhaust gas recirculation duct for an internal combustion engine

Title (de)

Abgasrückführleitung für Brennkraftmaschinen

Title (fr)

Conduit de recirculation de gaz d'échappement pour moteur à combustion interne

Publication

**EP 1063411 B1 20040908 (DE)**

Application

**EP 00102592 A 20000208**

Priority

DE 19929449 A 19990626

Abstract (en)

[origin: EP1063411A2] The exhaust return pipe (6) is integrated in a cylinder head (1) on the end face of the IC engine in such a way, that it passes through a cooling water chamber (7) of the cylinder head at right angles to its longitudinal direction. A closure flap (5) is fitted into the end of the exhaust return pipe facing the exhaust pipe (2). A tube bundle heat exchanger is integrated in the return pipe. A back pressure valve (3) between return pipe and exhaust cooler (4) is part of a seal between cooler and cylinder head.

IPC 1-7

**F02M 25/07**

IPC 8 full level

**F02M 25/07** (2006.01); **F02M 26/30** (2016.01); **F02M 26/32** (2016.01); **F02M 26/41** (2016.01); **F02M 26/59** (2016.01)

CPC (source: EP)

**F02M 26/30** (2016.02); **F02M 26/32** (2016.02); **F02M 26/41** (2016.02); **F02M 26/59** (2016.02); **F02M 26/40** (2016.02)

Citation (examination)

DE 4319380 A1 19931216 - AVL VERBRENNUNGSKRAFT MESSTECH [AT]

Cited by

CN105971776A; EP2063097A1; FR2944061A1; FR2935436A1; FR2906574A1; EP1908951A1; FR3005997A1; DE10119484A1; EP1723334A4; DE10119484B4

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