

Title (en)
Liquid cooled combustion engine with an exhaust gas recirculation system

Title (de)
Flüssigkeitsgekühlte Brennkraftmaschine mit einem Abgasrückführsystem

Title (fr)
Moteur à combustion à refroidissement par liquide et avec un système de recirculation de gaz d'échappement

Publication
EP 1055813 B1 20021120 (DE)

Application
EP 00109834 A 20000510

Priority
DE 19924398 A 19990527

Abstract (en)
[origin: EP1055813A2] The engine has an exhaust gas feedback heat exchanger (5) connected to the feed or return sides of a cooling medium circuit controlled by a thermostat for cooling the exhaust gas fed back into the induction air (7) via a valve (6). The heat exchanger is controlled on the feed or return side by a choke-thermostat (8). The heat exchanger is controlled to use exhaust gas heat. A first branching device (10) downstream of the valve is connected to an engine exhaust gas line (11). A second branching device (14) to coolant circuit is arranged in the heat exchanger's feed or return line. The valve and the two branching devices are controlled a characteristic field to provide free passage for exhaust gas feedback.

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F02M 25/07; **F01P 3/20**

IPC 8 full level
F01P 3/20 (2006.01); **F02C 3/08** (2006.01); **F02M 25/07** (2006.01); **F02M 26/28** (2016.01); **F02M 26/71** (2016.01); **F01P 7/14** (2006.01); **F02B 29/04** (2006.01)

CPC (source: EP)
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Cited by
EP1970548A3; FR2876417A1; CN102431414A; EP1918545A3; FR2872546A1; FR2883923A1; US2014158784A1; US9649910B2; US8136488B2; WO2004022940A1; WO2007012493A1; DE102010001752A1; WO2006005879A1; WO2005028847A1

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