

Title (en)
EXHAUST-GAS RECIRCULATION IN AN AIR-COOLED INTERNAL COMBUSTION ENGINE

Title (de)
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Title (fr)
RECIRCULATION DE GAZ D'ECHAPPEMENT DANS UN MOTEUR A COMBUSTION INTERNE REFROIDI PAR AIR

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Abstract (en)
[origin: WO2007065601A1] The invention relates to an internal combustion engine having a crankcase (1) and a cylinder head (3) which covers a cylinder of the crankcase and in which a fresh-gas channel and an exhaust-gas channel are made which open on a cylinder-head longitudinal side and are connected to in each case a fresh-gas line (16) and an exhaust-gas collection line (17), and wherein there is an exhaust-gas recirculation system, comprising an exhaust-gas recirculation line and a control valve (23). According to the invention, an internal combustion engine having an exhaust-gas recirculation system is provided, in which the exhaust-gas recirculation system remains uninfluenced by the exhaust-gas collection line which is hot during operation. This is achieved in that the exhaust-gas recirculation system is arranged on that cylinder-head side which lies opposite the fresh-gas line and the exhaust-gas collection line. This arrangement away from the exhaust-gas collection line which is substantially hotter than other components during operation has the consequence of a direct reduction of the temperature of the recirculated exhaust-gas amount, without further special cooling measures being provided.

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