

Title (en)

An arrangement for cooling exhaust gases in an internal combustion engine

Title (de)

Anordnung zum Kühlen von Abgasen in einem Verbrennungsmotor

Title (fr)

Agencement de refroidissement des gaz d'échappement dans un moteur à combustion interne

Publication

EP 2719885 A1 20140416 (EN)

Application

EP 12188094 A 20121011

Priority

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Abstract (en)

The invention relates to an arrangement (1) for cooling exhaust gases for exhaust gas recirculation (EGR) in an internal combustion engine. The arrangement (1) comprises a coolant fluid circuit (2) comprising a coolant radiator and a coolant fluid pump. The arrangement (1) further comprises an EGR heat exchanger (3) comprising a heat exchanger casing (4). At least one exhaust gas passage (5) for allowing exhaust gases to pass through the EGR heat exchanger (3) and at least one coolant fluid passage (6) for allowing coolant fluid to pass through the EGR heat exchanger (3) allows heat transfer to take place between the exhaust gases and the coolant fluid. The EGR heat exchanger (3) comprises an inlet (7) and an outlet (8) connected to the coolant fluid circuit (2). The EGR heat exchanger (3) further comprises a heat exchange section (9) and a bypass section (10). The heat exchange section (9) comprises the at least one exhaust gas passage (5) and the at least one coolant fluid passage (6). The heat exchange section (9) and the bypass section (10) are in fluid connection with each other through at least one heat exchange opening (11). A predetermined flow of coolant fluid through the heat exchange section (9) is determined by the area of the at least one heat exchange opening (11).

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [I] EP 1548267 A1 20050629 - HINO MOTORS LTD [JP], et al
- [I] JP H11351074 A 19991221 - USUI INTERNATIONAL INDUSTRY

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DOCDB simple family (publication)

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