

Title (en)
COOLING DEVICE FOR AN ENGINE EXHAUST GAS RECIRCULATION CIRCUIT

Title (de)
KÜHLVORRICHTUNG FÜR EINEN ABGASRÜCKFÜHRUNGSKREISLAUF EINES MOTOR

Title (fr)
DISPOSITIF DE REFROIDISSEMENT POUR UN CIRCUIT DE RECIRCULATION DE GAZ D'ECHAPPEMENT D'UN MOTEUR

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Application
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Abstract (en)
[origin: WO2011120931A1] The invention relates to a cooling device for an engine (1) exhaust gas recirculation circuit, notably that of a motor vehicle, said circuit comprising a valve (2) for controlling the circulation of said gas, said device comprising a heat exchanger (3), known as the EGR exchanger, intended to allow an exchange of heat between the exhaust gases passing through said recirculation circuit and a coolant fluid, and means (4) of cooling said valve. According to the invention, said device comprises a cooling loop (5), known as a high-temperature cooling loop and configured so that said valve cooling means (4) have a first fluid passing through them, and a second cooling loop (12), known as a low-temperature cooling loop and configured so that the EGR exchanger (3) has passing through it a second fluid at a temperature lower than that of the first fluid. The invention also relates to an assembly of an exhaust gas recirculation circuit and of such a cooling device, and to a system for supplying an engine, notably a supercharged diesel engine, with charge gases and comprising an engine air supply circuit and such an assembly.

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