

Title (en)

TWO-STAGE COOLED EXHAUST GAS RECIRCULATION SYSTEM

Title (de)

ZWEISTUFIG GEKÜHLTES ABGASRÜCKFÜHRSYSTEM

Title (fr)

SYSTÈME DE RÉINJECTION DES GAZ D'ÉCHAPPEMENT AVEC DEUX ÉTAGES DE REFROIDISSEMENT

Publication

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Application

**EP 09778787 A 20090930**

Priority

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Abstract (en)

[origin: WO2010037540A1] The invention relates to a device for the cooled recirculation of exhaust gas of an internal combustion engine charged by means of an exhaust gas turbocharger, wherein the internal combustion engine has a fresh gas system and an exhaust gas system, which are connected to a two-stage exhaust gas cooler by an exhaust gas recirculation line. According to the invention, a device is provided by way of which a sufficient amount of exhaust gas may be recirculated using simple means. This is achieved in that the exhaust gas recirculation line 8a, 8b is switched to an exhaust gas collector line 7a, 7b of the exhaust gas system in the flow direction upstream of the turbine 6 of the exhaust gas turbocharger 5, an exhaust gas recirculation valve 9a, 9b is switched on in the exhaust gas recirculation line 8a, 8b upstream of the first stage 10a, 10b of the exhaust gas cooler, and a check valve 11a, 11b is inserted in a forwarding line 12a, 12b to the second stage of the exhaust gas cooler.

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