

Title (en)

Exhaust gas purifying apparatus for an internal combustion engine with a supercharger

Title (de)

Vorrichtung zur Abgasreinigung für eine Brennkraftmaschine mit einem Turbolader

Title (fr)

Dispositif de purification de gaz d'échappement pour un moteur à combustion interne avec un turbocompresseur

Publication

EP 1193388 A2 20020403 (EN)

Application

EP 01123579 A 20011001

Priority

JP 2000302759 A 20001002

Abstract (en)

An exhaust gas purifying apparatus for an internal combustion engine with a turbocharger is provided with an introduction port for EGR gas disposed upstream of a compressor and a throttle valve disposed upstream of the introduction port, and comprised of a fail safe means that the portion on the upstream side of the compressor does not have any excessive negative pressure even if a malfunction occurs in the throttle valve. The exhaust gas purifying apparatus for an internal combustion engine with a turbocharger is provided with a supercharger (6) having a turbine (6b) disposed in an exhaust passage (16) and a compressor (6a) disposed in an intake passage (3) and having an exhaust gas recirculation system (23,24 and 25) for connecting the exhaust passage (16) downstream of the turbine (6b) and the intake passage (3) with each other and for recirculating a part of exhaust gas back to an intake system of the internal combustion engine, wherein an introduction port for recirculating the part of the exhaust gas and a throttle valve (20) for opening/closing the intake passage (3) as desired are arranged in this order. A fail safe unit (21) for allowing a predetermined flow rate of intake air to flow to the compressor (6a) and giving a load, when the throttle valve (20) is fully closed, is provided in the intake passage (3) upstream of the compressor (6a). <IMAGE>

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Citation (applicant)

JP H06257518 A 19940913 - MAZDA MOTOR

Citation (examination)

GB 2278885 A 19941214 - GEN MOTORS CORP [US]

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CN111207000A; EP1533496A1; CN103343716A; EP1589213A1; FR2846999A1; CN116085155A; CN102639837A; CN107084064A; EP1959117A4; CN106640381A; US8156925B2; US10125670B2; US8905009B2; DE102010043145B4; WO2008065497A1; US10138824B2; US11428597B2; US10890126B2

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