

Title (en)
Exhaust gas recirculation

Title (de)
Abgasrückführung

Title (fr)
Recirculation de gaz d'échappement

Publication
EP 0753656 B1 19980408 (EN)

Application
EP 96304661 A 19960625

Priority
• JP 17751495 A 19950713
• JP 4777696 A 19960305

Abstract (en)
[origin: EP0753656A1] An exhaust gas recirculator has a throttle valve (8) and an EGR valve (14) positioned on the downstream side of the throttle valve (8) disposed in an air intake passage (2) provided in a body (1) and connected to an internal combustion engine. A valve seat (28) having a recirculation opening (30) opened when a valve member (15) of the EGR valve (14) opens is disposed in an inner peripheral surface of the air intake passage (2). Exhaust gas flows through the recirculation opening (30) into the air intake passage (2) when the EGR valve is open. A recirculation opening sleeve (27) is fitted to a recirculation opening part of the body (1). The recirculation opening sleeve (27) is formed as a tube with the inner periphery of said front end portion (27a) forming the recirculation opening (30) and an end surface of said front end portion (27a) constituting the valve seat (28) of the EGR valve, and is fitted to the body so that said front end portion projects into the air intake passage. A hood (33) is disposed around the front end portion (27a) of the sleeve (27) so as to guide a flow of exhaust gas from the recirculation opening (30) in the downstream direction of the air intake passage (2) and provide an air passage between itself and the inner peripheral surface of the air intake passage (2). With this exhaust gas recirculator it is possible to reduce the adhesion of deposits to the throttle valve and effect cooling of a part around the recirculation opening. <IMAGE> <IMAGE>

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F02M 25/07

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Cited by
EP0869274A1; CN108979905A; FR2847946A1; EP0962646A4; EP1020635A3; DE19914535A1; DE19851677C1; DE19725668C1; US6044827A; EP0886062A3; US6672292B2; WO0123738A1

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