Title (en)

EGR VALVE FOR EXHAUST GAS RECIRCULATION TO THE INTAKE MANIFOLD OF INTERNAL COMBUSTION ENGINES

Title (de)

ABGASRÜCKFÜHRVENTIL FÜR ABGASRÜCKFÜHRUNG ZUM EINLASSKRÜMMER VON BRENNKRAFTMASCHINEN

Title (fr)

SOUPAPE DE RECIRCULATION DES GAZ D'ECHAPPEMENT POUR LA RECIRCULATION DE GAZ D'ECHAPPEMENT JUSQU'A LA TUBULURE D'ADMISSION DE MOTEURS A COMBUSTION INTERNE

Publication

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Application

EP 09723562 A 20090316

Priority

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- IT MI20080450 A 20080317

Abstract (en)

[origin: WO2009115975A2] The invention concerns a valve assembly for the recirculation of the exhaust gases of an internal combustion engine, to an intake manifold of the engine, through a by-pass or respectively through a cooling device. The valve assembly comprises means for the deviation of an adjusted amount of exhaust gases, from a single inlet of exhaust gases (Gsc) to two outlets (13b, 14b), controlled by two distinct closing valves (13, 14), pushed by respective spring means (16). A single actuation means (21; 20, 36, 37; 42; 47; 20, 48, 49; 51) controls alternatively either one of said valves (13, 14), under the control of a single electric actuator (19, 25), controlled by an electronic central control unit, in association with a single position sensor (22, 30). The actuation means comprises a single rotary shaft (20, 43, 46, 52), whereon a rocker arm (21, 42, 47,51) is keyed, or a pair of cams (36,37; 48, 49) having angularly offset profiles, the two arms of the rocker arm, or the two cams, respectively, being apt to act on either one, respectively, of said valves.

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See references of WO 2009115975A2

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