

Title (en)

Improvements for exhaust gas recirculation devices.

Title (de)

Verbesserungen zur Abgasrückführeinrichtung.

Title (fr)

Perfectionnements aux dispositifs de recyclage des gaz d'échappement.

Publication

EP 0497677 B1 19940112 (FR)

Application

EP 92400202 A 19920127

Priority

FR 9100963 A 19910129

Abstract (en)

[origin: EP0497677A1] An exhaust gas recirculation device for an internal combustion engine (1) comprises a recycling duct (5) a flap (6) mounted on this duct, and means, comprising a computer (4) for controlling and adjusting the opening of this flap, the said engine comprising a pressurised oil lubrication circuit itself comprising a circulation pump (7) and a sump (8). The control means of the flap comprise a hydraulic jack (V) whose piston (13) is kinematically linked to the flap and a four-way (A, B, C, D) solenoid valve (E) respectively connected to the output of the oil pump, to the return to the sump, to the chamber (M), of the jack, maximum filling of which corresponds to maximum opening of the valve and to the other chamber (P) of this jack, this solenoid valve being capable of taking up two positions for the first of which communications are established between the first and the fourth ways and between the second and third ways and for the second of which communications are established between the first and third ways and between the second and fourth ways. <IMAGE>

IPC 1-7

F02D 21/08; **F02M 25/07**

IPC 8 full level

F02D 21/08 (2006.01); **F02M 25/07** (2006.01)

CPC (source: EP)

F02D 21/08 (2013.01); **F02M 26/59** (2016.02)

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0497677 A1 19920805; **EP 0497677 B1 19940112**; DE 69200036 D1 19940224; DE 69200036 T2 19940707; ES 2048021 T3 19940301; FR 2672085 A1 19920731; FR 2672085 B1 19930514

DOCDB simple family (application)

EP 92400202 A 19920127; DE 69200036 T 19920127; ES 92400202 T 19920127; FR 9100963 A 19910129