

Title (en)

Engine valve drive with electromagnetic actuators comprising pneumatic return springs

Title (de)

Ventilsteuerung für Brennkraftmaschinen mit einem mit Gasfedern ausgerüsteten elektro-magnetischen Aktor

Title (fr)

Commande de soupape de moteur à combustion interne par actionneur électromagnétique muni de ressorts de rappel pneumatiques

Publication

EP 1120548 A3 20011205 (DE)

Application

EP 00126373 A 20001202

Priority

DE 10003116 A 20000126

Abstract (en)

[origin: EP1120548A2] The valve control (1) has an electromagnetic actuator (2) provided with gas springs (3,4), with an armature (6) coupled to the engine gas changing valve (5) provided by a separation piston (13) between the gas springs, displaced within a cylinder (12) between a closure magnet (7) and an opening magnet (8) against the return force of the gas springs. The latter have gas entry and exit valves (10,11) controlled in dependence on the engine load range for altering the spring characteristic.

IPC 1-7

F01L 9/04

IPC 8 full level

F01L 9/20 (2021.01)

CPC (source: EP)

F01L 9/20 (2021.01)

Citation (search report)

- [A] US 5943988 A 19990831 - BURGER DIETER [DE], et al
- [A] DE 19841124 A1 19990916 - FEV MOTORENTECH GMBH [DE]
- [A] DE 19646938 A1 19980514 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] EP 0971099 A1 20000112 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] EP 0468548 A2 19920129 - MAGNAVOX CO [US]

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1120548 A2 20010801; EP 1120548 A3 20011205; EP 1120548 B1 20050727; DE 10003116 A1 20010802; DE 50010827 D1 20050901; ES 2242574 T3 20051116

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