

Title (en)
DEVICE FOR CONTROLLING CHARGE EXCHANGE VALVES

Title (de)
VORRICHTUNG ZUR STEUERUNG VON GASWECHSELVENTILEN

Title (fr)
DISPOSITIF DE COMMANDE DE SOUPAPE DE CHANGEMENT DES GAZ

Publication
EP 1481148 A1 20041201 (DE)

Application
EP 02805683 A 20021128

Priority
• DE 0204365 W 20021128
• DE 10203275 A 20020129

Abstract (en)
[origin: WO03064823A1] Disclosed is a device for controlling charge exchange valves, at least one of which is assigned to the combustion chamber of a combustion engine as an intake valve (11) and at least one of which is assigned thereto as an exhaust valve (12). The inventive device comprises electrohydraulic valve actuators (18), each of which is assigned to a charge exchange valve so as to actuate said charge exchange valve, and a pressure-feeding unit (26) which is provided with a jetting pump and an accumulator unit and feeds the valve actuators (18) with a pressurized fluid. In order to reduce the power consumption of the control device, the accumulator unit comprises two separate high-pressure reservoirs (31, 32), one of which is connected to the valve actuator (18) for the at least one intake valve (11) while the other one is connected to the valve actuator (18) for the at least one exhaust valve (12). The jetting pump (27) is optionally connected to one or the other high-pressure reservoir (31, 32) and to a return duct (37) leading to a fluid reservoir (29) by means of a switching member (30).

IPC 1-7
F01L 9/02

IPC 8 full level
F01L 9/10 (2021.01)

CPC (source: EP US)
F01L 9/10 (2021.01 - EP US); **F01L 2800/00** (2013.01 - EP US)

Citation (search report)
See references of WO 03064823A1

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
WO 03064823 A1 20030807; DE 10203275 A1 20030807; DE 50204351 D1 20051027; EP 1481148 A1 20041201; EP 1481148 B1 20050921; JP 2005516146 A 20050602; KR 20040077808 A 20040906; US 2004144345 A1 20040729

DOCDB simple family (application)
DE 0204365 W 20021128; DE 10203275 A 20020129; DE 50204351 T 20021128; EP 02805683 A 20021128; JP 2003564401 A 20021128; KR 20047011583 A 20021128; US 47352804 A 20040322