

Title (en)
DEVICE FOR ACTUATING A CHARGE CYCLE VALVE

Title (de)
VORRICHTUNG ZUM BETÄTIGEN EINES GASWECHSELVENTILS

Title (fr)
DISPOSITIF POUR ACTIONNER UNE SOUPAPE DE CHANGEMENT DES GAZ

Publication
EP 1144811 B1 20030528 (DE)

Application
EP 00901531 A 20000112

Priority
• DE 19900951 A 19990113
• DE 19956136 A 19991123
• EP 0000156 W 20000112

Abstract (en)
[origin: US2002017254A1] In a device for actuating a gas exchange valve for internal combustion engines, having at least one compensating element which is arranged in the force path of an actuating element of the gas exchange valve and which has a pressure space which is formed by a piston and a working cylinder and is connected to a pressurized fluid supply space via a non-return valve and a throttling portion, via which pressure fluid can be discharged from the pressure space during the working cycles. The pressure space is sealed to the outside, and the compensating element includes a high-pressure valve, via which pressure medium can be discharged in a throttled manner during the working cycles of the gas exchange valve as the high-pressure valve opens at a predetermined force on the compensating element and closes at a predetermined force which is greater than an average force and smaller or equal to a maximum force on the compensating element.

IPC 1-7
F01L 1/24; **F01L 9/04**

IPC 8 full level
F01L 1/24 (2006.01); **F01L 9/20** (2021.01); **F02D 13/02** (2006.01); **F02D 45/00** (2006.01)

CPC (source: EP US)
F01L 1/24 (2013.01 - EP US); **F01L 9/20** (2021.01 - EP US)

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
US 2002017254 A1 20020214; **US 6481395 B2 20021119**; EP 1144811 A1 20011017; EP 1144811 B1 20030528; ES 2197067 T3 20040101; JP 2002535530 A 20021022; WO 0042298 A1 20000720

DOCDB simple family (application)
US 90233801 A 20010710; EP 0000156 W 20000112; EP 00901531 A 20000112; ES 00901531 T 20000112; JP 2000593845 A 20000112