

Title (en)

POPPET VALVE CONTROL DEVICE

Publication

EP 0317725 B1 19920122 (DE)

Application

EP 88115424 A 19880921

Priority

DE 3739891 A 19871125

Abstract (en)

[origin: US4867111A] An arrangement for the actuation of a gas-exchange disk valve longitudinally guided in the cylinder head of a reciprocating piston which is opened and closed against spring force by two alternately periodically energized electromagnets. An armature coaxial to the disk valve together with an armature disk secured at the same is thereby moved to and fro and stresses a cylindrical torsion rod spring clamped-in at the cylinder head by way of a valve lever pivotally connected at the armature. For compensating manufacturing tolerances and thermal expansion, a magnetizable entrainment disk is arranged in the armature disk with axial play which is threadably connected with the stem end of the disk valve and effects the tight closing thereof.

IPC 1-7

F01L 1/16; **F01L 3/10**; **F01L 9/04**

IPC 8 full level

F01L 1/16 (2006.01); **F01L 1/46** (2006.01); **F01L 3/10** (2006.01); **F01L 9/04** (2006.01); **F01L 9/20** (2021.01)

CPC (source: EP US)

F01L 1/16 (2013.01 - EP US); **F01L 1/462** (2013.01 - EP US); **F01L 9/20** (2021.01 - EP US); **F01L 2009/2109** (2021.01 - EP)

Cited by

EP0841473A1; US6202609B1; WO9922122A1

Designated contracting state (EPC)

DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0317725 A1 19890531; **EP 0317725 B1 19920122**; DE 3739891 A1 19890608; DE 3868018 D1 19920305; ES 2028222 T3 19920701; US 4867111 A 19890919

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EP 88115424 A 19880921; DE 3739891 A 19871125; DE 3868018 T 19880921; ES 88115424 T 19880921; US 27490988 A 19881122