

Title (en)

VALVE MECHANISM COMPRISING A VARIABLE CROSS-SECTION OF A VALVE OPENING

Title (de)

VENTILMECHANISMUS MIT EINEM VARIABLEN VENTILÖFFNUNGSQUERSCHNITT

Title (fr)

MECANISME DE SOUPAPE PRESENTANT UNE SECTION D'OUVERTURE DE SOUPAPE VARIABLE

Publication

**EP 1421262 B1 20080528 (DE)**

Application

**EP 02737829 A 20020503**

Priority

- DE 0201602 W 20020503
- DE 10140941 A 20010821

Abstract (en)

[origin: WO03018967A1] The invention relates to a valve mechanism comprising a variable cross-section of a valve opening. Said valve mechanism is arranged on a flow opening of an internal combustion engine and comprises a gas exchange valve which is actuated by the force of a valve spring and can be displaced back and forth in the axial direction inside a guiding element by means of a valve control unit. The position of the sealing slide can be continuously adjusted in the axial direction in relation to the gas exchange valve by means of an adjustment unit. According to the invention, a sealing slide (10) is arranged coaxially in relation to the gas exchange valve (12). Said slide is actuated by the force of a coupler spring (24), and can be displaced back and forth in the axial direction by means of a valve control unit.

IPC 8 full level

**F01L 3/08** (2006.01); **F01L 1/28** (2006.01); **F01L 3/10** (2006.01); **F01L 3/22** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP KR US)

**F01L 1/28** (2013.01 - EP US); **F01L 3/08** (2013.01 - KR); **F01L 3/085** (2013.01 - EP US); **F01L 3/22** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 03018967 A1 20030306**; DE 10140941 A1 20030320; DE 50212326 D1 20080710; EP 1421262 A1 20040526; EP 1421262 B1 20080528; JP 2005500462 A 20050106; KR 20040030159 A 20040408; US 2004050354 A1 20040318; US 6886513 B2 20050503

DOCDB simple family (application)

**DE 0201602 W 20020503**; DE 10140941 A 20010821; DE 50212326 T 20020503; EP 02737829 A 20020503; JP 2003523802 A 20020503; KR 20047002508 A 20020503; US 39965803 A 20031006