

Title (en)

VALVE ASSEMBLY FOR AN INJECTION VALVE, INJECTION VALVE AND COMBUSTION ENGINE

Title (de)

VENTILANORDNUNG FÜR EIN EINSPRITZVENTIL SOWIE EINSPRITZVENTIL UND VERBRENNUNGSMOTOR

Title (fr)

ENSEMBLE DE VANNE POUR VANNE D'INJECTION DESTINÉE À UN MOTEUR À COMBUSTION

Publication

**EP 3279461 A1 20180207 (EN)**

Application

**EP 16182662 A 20160803**

Priority

EP 16182662 A 20160803

Abstract (en)

A valve assembly (3) for an injection valve (1) comprises - a valve body (4) with a central longitudinal axis (L) comprising a cavity (9) with a fluid inlet portion (5) and a fluid outlet portion (7), - a sealing ball (15) axially moveable in the cavity (9), the sealing ball (15) interacting with a valve seat (17) at the fluid outlet portion (7) to prevent a fluid flow through the fluid outlet portion (7) in a closing position and to release the fluid flow through the fluid outlet portion (7) in further positions, wherein the sealing ball (15) serves as an armature for an electro-magnetic actuator unit (18) of the injection valve (1).

IPC 8 full level

**F02M 51/06** (2006.01); **F02M 51/08** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)

**F02M 51/0632** (2013.01); **F02M 51/08** (2019.01); **F02M 61/18** (2013.01); **F02M 61/188** (2013.01); **F02M 2200/9053** (2013.01)

Citation (applicant)

DE 102010062126 A1 20120531 - BOSCH GMBH ROBERT [DE]

Citation (search report)

- [XI] DE 3312067 A1 19841004 - BOSCH GMBH ROBERT [DE]
- [X] US 4434765 A 19840306 - ESHELMAN PHILIP V [US]
- [X] DE 2300458 A1 19730712 - RENAULT [FR], et al
- [X] EP 0051009 A1 19820505 - RENAULT [FR]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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