

Title (en)

ELECTROMAGNETIC ACTUATING UNIT FOR A SUCTION VALVE AND A SUCTION VALVE

Title (de)

ELEKTROMAGNETISCHE STELLEINHEIT FÜR EIN SAUGVENTIL SOWIE SAUGVENTIL

Title (fr)

UNITÉ ÉLECTROMAGNÉTIQUE DE RÉGLAGE POUR UNE SOUPAPE D'ASPIRATION ET UNE SOUPAPE D'ASPIRATION

Publication

**EP 3172428 A1 20170531 (DE)**

Application

**EP 15727376 A 20150602**

Priority

- DE 102014214231 A 20140722
- EP 2015062248 W 20150602

Abstract (en)

[origin: WO2016012143A1] The invention relates to an electromagnetic actuating unit for an intake valve for supplying fuel to a high-pressure fuel pump, in particular a high-pressure common-rail pump, comprising an electromagnet (1) and an armature (2) which is guided, in an armature guide (3) surrounding an outer circumferential region of the armature (2), so as to be axially displaceable. According to the invention, the armature guide (3) serves at the same time for mounting the armature, the armature (2) being in the form of a flat armature that bounds an axial working air gap (4) formed between the armature (2) and the electromagnet (1). The invention further relates to an intake valve having such an electromagnetic actuating unit.

IPC 8 full level

**F02M 59/36** (2006.01); **F02M 61/12** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

**F02M 59/368** (2013.01); **F02M 61/12** (2013.01); **F02M 63/0071** (2013.01); **F02M 63/0075** (2013.01); **F02M 2200/07** (2013.01); **F02M 2200/9069** (2013.01)

Citation (search report)

See references of WO 2016012143A1

Cited by

CN111350862A

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)

**DE 102014214231 A1 20160128**; EP 3172428 A1 20170531; EP 3172428 B1 20180815; WO 2016012143 A1 20160128

DOCDB simple family (application)

**DE 102014214231 A 20140722**; EP 15727376 A 20150602; EP 2015062248 W 20150602