

Title (en)
ELECTROMAGNETICALLY ACTUATABLE INLET VALVE AND HIGH-PRESSURE PUMP COMPRISING AN INLET VALVE

Title (de)
ELEKTROMAGNETISCH BETÄTIGBARES EINLASSVENTIL UND HOCHDRUCKPUMPE MIT EINLASSVENTIL

Title (fr)
SOUPAPE D'ADMISSION À COMMANDE ÉLECTROMAGNÉTIQUE ET POMPE HAUTE PRESSION MUNIE D'UNE SOUPAPE D'ADMISSION

Publication
EP 3529486 A1 20190828 (DE)

Application
EP 17784951 A 20171017

Priority

- DE 102016220364 A 20161018
- EP 2017076471 W 20171017

Abstract (en)
[origin: WO2018073246A1] The invention relates to an electromagnetically actuatable inlet valve (24) for a high-pressure pump, in particular of a fuel-injection system. The inlet valve (24) has a valve member (34) which can be moved between an open position and a closed position. Provided is an electromagnetic actuator (60), by means of which the valve member (34) can be moved, wherein the electromagnetic actuator (60) has an armature (68) which acts at least indirectly on the valve member (34), a solenoid coil (64) which surrounds the armature (68), and a magnetic core (66), against which the armature (68) comes to rest, at least indirectly, when current is applied to the solenoid coil (64). The armature (68) is displaceably guided in a carrier element (78) and the carrier element (78) and the magnetic core (66) are interconnected and surrounded by a housing (69, 70, 71). The region of the connection (90) between the carrier element (78) and the magnetic core (68) is arranged in an inner chamber (91) of the housing (69, 70, 71). A seal (92, 94, 96) is provided between the magnetic housing (69) and the cylinder head (16) of the high pressure pump, said seal sealing the inner chamber (91) of the housing (69, 70, 71) with respect to the exterior of the housing (69, 70, 71).

IPC 8 full level
F02M 59/36 (2006.01); **F02M 59/48** (2006.01)

CPC (source: EP US)
F02M 59/025 (2013.01 - US); **F02M 59/368** (2013.01 - EP US); **F02M 59/48** (2013.01 - EP); **F04B 1/0448** (2013.01 - EP); **F04B 1/0461** (2013.01 - EP); **F04B 1/053** (2013.01 - EP); **F04B 7/0076** (2013.01 - US); **F04B 9/045** (2013.01 - US); **F04B 53/10** (2013.01 - EP US); **F16K 27/029** (2013.01 - EP US); **F16K 31/0655** (2013.01 - EP US); **F16K 31/0675** (2013.01 - EP US); **F02M 2200/16** (2013.01 - EP); **F02M 2200/26** (2013.01 - EP); **F02M 2200/9053** (2013.01 - EP)

Citation (search report)
See references of WO 2018073246A1

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

DOCDB simple family (publication)
DE 102016220364 A1 20180419; CN 110088456 A 20190802; EP 3529486 A1 20190828; US 2020056572 A1 20200220; WO 2018073246 A1 20180426

DOCDB simple family (application)
DE 102016220364 A 20161018; CN 201780078316 A 20171017; EP 17784951 A 20171017; EP 2017076471 W 20171017; US 201716342874 A 20171017