

Title (en)
ELECTROMAGNETICALLY OPERABLE INLET VALVE AND HIGH-PRESSURE PUMP HAVING 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 3365551 A1 20180829 (DE)

Application
EP 16763548 A 20160913

Priority
• DE 102015220677 A 20151022
• EP 2016071571 W 20160913

Abstract (en)
[origin: WO2017067715A1] The invention proposes an electromagnetically operable 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. An electromagnetic actuator (60) is provided, it being possible for the valve member (34) to be moved by said electromagnetic actuator, wherein the electromagnetic actuator (60) has a magnet armature (68) which acts at least indirectly on the valve member (34), a magnet coil (64) which surrounds the magnet armature (68), and a magnet core (66) against which the magnet armature (68) comes to rest at least indirectly when current is applied to the magnet coil (64), wherein the magnet armature (68) is displaceably routed in a carrier element (78), and wherein the carrier element (78) and the magnet core (66) are connected to one another. The magnet core (66) is at least partially surrounded by a housing body (70), and the magnet core (66) is supported, at least on its side which is averted from the magnet armature (68), by means of an intermediate layer (96) in the housing body (70).

IPC 8 full level
F02M 59/36 (2006.01); **F02M 59/46** (2006.01)

CPC (source: EP)
F02M 59/368 (2013.01); **F02M 59/466** (2013.01); **F02M 2200/02** (2013.01)

Citation (search report)
See references of WO 2017067715A1

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 102015220677 A1 20170427; EP 3365551 A1 20180829; EP 3365551 B1 20190828; WO 2017067715 A1 20170427

DOCDB simple family (application)
DE 102015220677 A 20151022; EP 16763548 A 20160913; EP 2016071571 W 20160913