

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

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Application

EP 16763548 A 20160913

Priority

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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

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