

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

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Application
EP 17700485 A 20170103

Priority

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Abstract (en)
[origin: WO2017148600A1] The invention proposes 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 connected to one another by means of a sleeve-type component (90). A discoid intermediate element (92), which is connected to the sleeve-type element (90), is located between the armature (68) and the end of the magnetic core (66) facing said armature. The intermediate element (92) allows the stress on the magnetic core (66) upon impact of the armature (68) to be reduced. The intermediate element (92) is produced from a non-magnetic material, such that said element also causes magnetic separation between the armature (68) and the magnetic core (66).

IPC 8 full level
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