

Title (en)

FUEL INJECTION VALVE FOR COMBUSTION ENGINES

Title (de)

BRENNSTOFFEINSPRITZVENTIL FÜR VERBRENNUNGSKRAFTMASCHINEN

Title (fr)

INJECTEUR DE CARBURANT POUR MOTEURS À COMBUSTION INTERNE

Publication

EP 3194757 A1 20170726 (DE)

Application

EP 15762935 A 20150824

Priority

- CH 14072014 A 20140917
- EP 2015069346 W 20150824

Abstract (en)

[origin: WO2016041739A1] The fuel injection valve (10) comprises an intermediate valve with a mushroom-shaped intermediate valve member (78). The shaft (76) of the intermediate valve member (78) is guided with a sliding fit in the guiding passage (74) of an intermediate component (66). An annular space (120) is defined between the shaft (76) and the head (80) of the intermediate valve member (78) and the intermediate component (66), and a high-pressure inlet (86) opens into the annular space, which is formed by an inner annular space (108) and by a split ring space (118). The split ring space (118) is defined between the head (80) and the intermediate component (66), and is also radially outwardly defined by a sealing bead (112). The adhesion force between the intermediate valve member (78) and the intermediate component (66), which acts against the opening motion of the injection valve member (56), is minimised.

IPC 8 full level

F02M 47/02 (2006.01); **F02M 63/00** (2006.01)

CPC (source: CN EP KR RU US)

F02M 47/027 (2013.01 - CN EP KR RU US); **F02M 63/0005** (2013.01 - RU US); **F02M 63/0029** (2013.01 - CN EP KR RU US); **F02M 63/0035** (2013.01 - CN EP KR RU US); **F02M 63/0042** (2013.01 - US); **F02M 2200/07** (2013.01 - CN EP KR US); **F02M 2200/40** (2013.01 - CN EP KR US); **F02M 2547/001** (2013.01 - CN EP KR US)

Citation (search report)

See references of WO 2016041739A1

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)

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