

Title (en)

VALVE, IN PARTICULAR SUCTION VALVE, IN A HIGH-PRESSURE PUMP OF A FUEL INJECTION SYSTEM

Title (de)

VENTIL, INSBESONDERE SAUGVENTIL, IN EINER HOCHDRUCKPUMPE EINES KRAFTSTOFFEINSPRITZSYSTEMS

Title (fr)

SOUPAPE, NOTAMMENT SOUPAPE D'ASPIRATION, DANS UNE POMPE D'ALIMENTATION HAUTE PRESSION D'UN SYSTÈME D'INJECTION DE CARBURANT

Publication

EP 3353411 A1 20180801 (DE)

Application

EP 16754216 A 20160802

Priority

- DE 102015218054 A 20150921
- EP 2016068379 W 20160802

Abstract (en)

[origin: WO2017050470A1] The invention relates to a valve, in particular a suction valve, in a high-pressure pump of a fuel injection system, comprising a valve element (14) which moves between an open position and a closed position, and which is connected to an actuation element (8, 10). Both elements are in mechanical contact at least indirectly with one another. It is now possible for the actuation element (8, 10) to transmit an actuation force to the valve element (14), in order to move same into an open state. According to the invention, the contact surface between the two elements is provided with trough-shaped recesses (20), in order to separate the mechanical contact region (24) between the two elements from the cavitation region (22).

IPC 8 full level

F02M 59/36 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 59/367 (2013.01); **F02M 63/0017** (2013.01); **F02M 63/0035** (2013.01); **F02M 2200/04** (2013.01); **F02M 2200/70** (2013.01)

Citation (search report)

See references of WO 2017050470A1

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 102015218054 A1 20170323; EP 3353411 A1 20180801; EP 3353411 B1 20191009; WO 2017050470 A1 20170330

DOCDB simple family (application)

DE 102015218054 A 20150921; EP 16754216 A 20160802; EP 2016068379 W 20160802