

Title (en)

CONTROL VALVE FOR A FUEL INJECTOR, AND FUEL INJECTOR

Title (de)

STEUERVENTIL FÜR EINEN KRAFTSTOFFINJEKTOR SOWIE KRAFTSTOFFINJEKTOR

Title (fr)

SOUPAPE DE COMMANDE POUR UN INJECTEUR DE CARBURANT, ET INJECTEUR DE CARBURANT

Publication

EP 2678549 A1 20140101 (DE)

Application

EP 12700219 A 20120109

Priority

- DE 102011004640 A 20110224
- EP 2012050235 W 20120109

Abstract (en)

[origin: WO2012113587A1] The invention relates to a control valve for a fuel injector, in particular a common rail fuel injector, comprising a valve body (1) and a valve member (2) which is guided, such that it can perform a stroke movement, in a guide (3) of the valve body (1) and has a sealing surface (5) which interacts with a valve seat (4), wherein lifting of the sealing surface (5) from the valve seat (4) results in a release of pressure from a high-pressure chamber (6) formed between the guide (3) and the valve seat (4). According to the invention, in the region of the guide (3), at least one annular edge (7) which serves as a scraper is formed on the valve body (1) and/or on the valve member (2), wherein the annular edge (7) runs along the line of intersection of two delimiting surfaces (8, 9) which enclose an angle $(\alpha) = 90^\circ$. The invention also relates to a fuel injector having a control valve of said type.

IPC 8 full level

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

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 63/0071** (2013.01); **F02M 63/0077** (2013.01); **F02M 63/0078** (2013.01)

Citation (search report)

See references of WO 2012113587A1

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

DOCDB simple family (publication)

DE 102011004640 A1 20120830; CN 103392064 A 20131113; EP 2678549 A1 20140101; WO 2012113587 A1 20120830

DOCDB simple family (application)

DE 102011004640 A 20110224; CN 201280009730 A 20120109; EP 12700219 A 20120109; EP 2012050235 W 20120109