

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFINJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

Publication
EP 2630361 A1 20130828 (DE)

Application
EP 11764555 A 20111005

Priority
• DE 102010042688 A 20101020
• EP 2011067353 W 20111005

Abstract (en)
[origin: WO2012052293A1] The invention relates to a fuel injector (10), having an injector housing (11) in which an element (15), in particular a valve needle, which can be moved up and down, is arranged in a guide bore (22) in order to at least indirectly open and close injection openings in the injector housing (11), wherein the guide bore (22) separates two pressure chambers (20, 25) having different pressures from each other, and wherein fuel present in the pressure chambers (20, 25) flows from the pressure chamber (20) having the higher pressure via the guide gap (23) formed between the element (15) and the guide bore (22) towards the pressure chamber (25) having lower pressure. According to the invention, the guide bore (22) is connected to at least one outflow channel (35, 38) in which there is a lower pressure than in the pressure chamber (20) having the higher pressure.

IPC 8 full level
F02M 61/12 (2006.01)

CPC (source: EP)
F02M 61/12 (2013.01); **F02M 2200/06** (2013.01); **F02M 2200/16** (2013.01)

Citation (search report)
See references of WO 2012052293A1

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 102010042688 A1 20120426; CN 103201500 A 20130710; CN 103201500 B 20160921; EP 2630361 A1 20130828;
EP 2630361 B1 20160323; WO 2012052293 A1 20120426

DOCDB simple family (application)
DE 102010042688 A 20101020; CN 201180050071 A 20111005; EP 11764555 A 20111005; EP 2011067353 W 20111005