

Title (en)
INJECTOR FOR INJECTING FUEL

Title (de)
INJEKTOR ZUM EINSPRITZEN VON KRAFTSTOFF

Title (fr)
INJECTEUR DESTINE A L'INJECTION DE CARBURANT

Publication
EP 2473728 A1 20120711 (DE)

Application
EP 10736678 A 20100721

Priority
• DE 102009029009 A 20090831
• EP 2010060542 W 20100721

Abstract (en)
[origin: WO2011023473A1] The invention relates to an injector (1) for injecting fuel into a combustion chamber of an internal combustion engine, wherein an injection member (10), which releases or closes at least one injection opening (20), is actuated by a control valve (29), wherein the control valve (29) releases or closes a connection (43) from a control space (24) to a fuel return (8) in that a closing member (30) arranged in operational connection to a pressure spring (36) is placed in a seat (34) or releases said seat, and wherein a pin-like element (35), which in the region protruding from the closing member (30) is radially surrounded by the pressure spring (36) and on the side opposite the seat (34) is supported against a stationary support element (37) together with the pressure spring (36), is arranged axially movably in the closing member (30). According to the invention, the closing member (30) is arranged with radial play in relation to a valve piece (16), and the pin-like element (35) has an enlarged radial distance (R) to the pressure spring (36) at least in the contact region with the support element (37).

IPC 8 full level
F02M 47/02 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 47/027 (2013.01); **F02M 63/0015** (2013.01); **F02M 63/004** (2013.01); **F02M 63/008** (2013.01)

Citation (search report)
See references of WO 2011023473A1

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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102009029009 A1 20110303; EP 2473728 A1 20120711; EP 2473728 B1 20141126; WO 2011023473 A1 20110303

DOCDB simple family (application)
DE 102009029009 A 20090831; EP 10736678 A 20100721; EP 2010060542 W 20100721