

Title (en)
INJECTION DEVICE

Title (de)
EINSPRITZEINRICHTUNG

Title (fr)
DISPOSITIF D'INJECTION

Publication
EP 3155253 A1 20170419 (DE)

Application
EP 15726097 A 20150527

Priority
• DE 102014211494 A 20140616
• EP 2015061690 W 20150527

Abstract (en)
[origin: WO2015193069A1] The invention relates to an injection device (1), in particular for an exhaust aftertreatment system of an internal combustion engine, comprising a pressure-controlled, outward-opening fuel injection valve (2) that includes an axially movable valve piston (6) which penetrates a flow opening (7) in a valve body (5) and one end of which has a valve tip (9), further comprising a valve seat (8) associated with the flow opening (7), and at least one spring element (11) which urges the valve piston (6) comprising the valve tip (9) against the valve seat (8) so that the flow opening (7) is closed; the valve tip (9) is axially movable inside a flow chamber (15) formed by the valve body (5) and by an injection orifice disk (14) that includes a plurality of injection ports (19).

IPC 8 full level
F02M 61/16 (2006.01); **B01D 53/94** (2006.01); **F01N 3/20** (2006.01); **F02M 61/08** (2006.01); **F02M 61/18** (2006.01)

CPC (source: CN EP KR US)
F01N 3/2066 (2013.01 - CN EP KR US); **F01N 3/28** (2013.01 - CN); **F01N 2610/02** (2013.01 - CN EP KR US);
F01N 2610/1453 (2013.01 - CN EP KR US); **Y02T 10/12** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2015193069A1

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 102014211494 A1 20151217; CN 106460619 A 20170222; EP 3155253 A1 20170419; KR 20170020447 A 20170222;
US 10190459 B2 20190129; US 2017321586 A1 20171109; WO 2015193069 A1 20151223

DOCDB simple family (application)
DE 102014211494 A 20140616; CN 201580032619 A 20150527; EP 15726097 A 20150527; EP 2015061690 W 20150527;
KR 20177001101 A 20150527; US 201515319438 A 20150527