

Title (en)  
FUEL INJECTOR

Title (de)  
KRAFTSTOFFEINSPRITZER

Title (fr)  
INJECTEUR DE CARBURANT

Publication  
**EP 3172429 B1 20180606 (FR)**

Application  
**EP 15736450 A 20150708**

Priority  
• FR 1457078 A 20140722  
• EP 2015065583 W 20150708

Abstract (en)  
[origin: WO2016012242A1] A fuel injector (10) comprising a needle (16) able to move between a fully open position (PO) and a closed position (PF) is provided with a device (82) for tracking the position of the needle, in which an electrical circuit (84) is closed in the two end positions (PO, PF), the needle (16) being in electrical contact with earth (M), the circuit (84) being open in any other intermediate position (Pi) of the needle (16), the needle (16) not being earthed (M).

IPC 8 full level  
**F02M 47/02** (2006.01); **F02M 51/00** (2006.01); **F02M 65/00** (2006.01)

CPC (source: CN EP US)  
**F02M 47/027** (2013.01 - CN EP US); **F02M 51/005** (2013.01 - CN EP US); **F02M 65/005** (2013.01 - CN EP US)

Cited by  
WO2019016380A1

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)  
**WO 2016012242 A1 20160128**; CN 106662055 A 20170510; CN 106662055 B 20190423; EP 3172429 A1 20170531; EP 3172429 B1 20180606; EP 3346124 A1 20180711; EP 3346124 B1 20200617; FR 3024183 A1 20160129; FR 3024183 B1 20190726; JP 2017524864 A 20170831; JP 6516386 B2 20190522; US 10502172 B2 20191210; US 2017268473 A1 20170921

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**EP 2015065583 W 20150708**; CN 201580039708 A 20150708; EP 15736450 A 20150708; EP 18152426 A 20150708; FR 1457078 A 20140722; JP 2017503493 A 20150708; US 201515327687 A 20150708