

Title (en)

APPARATUS TO INJECT FUEL IN THE COMBUSTION CHAMBER OF A COMBUSTION ENGINE

Title (de)

VORRICHTUNG ZUM EINSPRITZEN VON KRAFTSTOFF IN DEN BRENNRAUM EINER BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF D'INJECTION DE CARBURANT DANS LA CHAMBRE DE COMBUSTION D'UN MOTEUR À COMBUSTION

Publication

**EP 2807366 B1 20160113 (DE)**

Application

**EP 13714682 A 20130117**

Priority

- AT 1052012 A 20120126
- IB 2013000212 W 20130117

Abstract (en)

[origin: WO2013111008A1] The invention relates to a device for injecting fuel into the combustion chamber of an internal combustion engine, comprising at least one injector (1) that has: a high-pressure accumulator (6), which is integrated into the injector body, an injection nozzle (2) that has a nozzle needle (15) which is guided in an axially movable manner and which is surrounded by a nozzle chamber (19), a high-pressure bore (8) that connects the high-pressure accumulator (6) to the nozzle chamber (19), and a feed bore (22) for feeding high-pressure fuel to the high-pressure accumulator (6), the feed bore (22) comprising a lance connection (25), arranged to the side of the injector body. The feed bore (22) is a bore which is separate from the high-pressure bore (8) and connects the lance connection (25) directly to the high-pressure accumulator (6).

IPC 8 full level

**F02M 47/02** (2006.01)

CPC (source: EP US)

**F02M 47/027** (2013.01 - EP US); **F02M 69/04** (2013.01 - US); **F02M 2200/40** (2013.01 - EP US); **G10L 2015/025** (2013.01 - EP US); **G10L 2019/0005** (2013.01 - EP US)

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 2013111008 A1 20130801**; AT 512437 A1 20130815; AT 512437 B1 20140315; EP 2807366 A1 20141203; EP 2807366 B1 20160113; KR 102009766 B1 20190812; KR 20140108581 A 20140911; US 10371111 B2 20190806; US 2014345569 A1 20141127

DOCDB simple family (application)

**IB 2013000212 W 20130117**; AT 1052012 A 20120126; EP 13714682 A 20130117; KR 20147020998 A 20130117; US 201314371037 A 20130117