

Title (en)

DEVICE FOR MEASURING AN AMOUNT OF FLUID INJECTED BY AN INJECTOR

Title (de)

VORRICHTUNG ZUR MESSUNG EINER VON EINEM INJEKTOR INJIZIERTEN FLÜSSIGKEITSMENGE

Title (fr)

DISPOSITIF DE MESURE D'UNE QUANTITÉ DE FLUIDE INJECTÉE PAR UN INJECTEUR

Publication

EP 2898213 A1 20150729 (FR)

Application

EP 13779621 A 20130918

Priority

- FR 1258770 A 20120919
- FR 2013052144 W 20130918

Abstract (en)

[origin: WO2014044967A1] The invention relates to a device (1) for measuring an amount of fluid injected by an injector, which comprises: a measurement chamber (2), into which the fluid is injected; a device (3) for injecting the fluid into said measurement chamber (2); and at least one pressure sensor (4) placed in said measurement chamber (2) and suitable for measuring the pressure in said measurement chamber (2). Said device is characterized in that the measurement chamber (2) has a generally ellipsoidal shape, particularly a rotationally ellipsoidal shape, having first and second focal points (F1, F2). Said casing is also characterized in that the injection device (3) comprises an injection opening (32) provided on the first focal point (F1) of said measurement chamber (2) and in that the pressure sensor (4) is provided on the second focal point (F2) of said measurement chamber (2). The present invention is useful in the field of fuel injection systems for heat engines.

IPC 8 full level

F02M 65/00 (2006.01)

CPC (source: EP)

F02M 65/001 (2013.01)

Citation (search report)

See references of WO 2014044967A1

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)

FR 2995640 A1 20140321; FR 2995640 B1 20150320; CN 104641103 A 20150520; EP 2898213 A1 20150729; JP 2015529777 A 20151008; WO 2014044967 A1 20140327

DOCDB simple family (application)

FR 1258770 A 20120919; CN 201380048795 A 20130918; EP 13779621 A 20130918; FR 2013052144 W 20130918; JP 2015531632 A 20130918