

Title (en)

METHOD TO CALIBRATE A FUEL INJECTION PUMP

Title (de)

VERFAHREN ZUM KALIBRIEREN EINER KRAFTSTOFFEINSPRITZPUMPE

Title (fr)

PROCÉDÉ D'ÉTALONNAGE D'UNE POMPE D'INJECTION DE CARBURANT

Publication

**EP 3418551 B1 20200729 (EN)**

Application

**EP 18176648 A 20180607**

Priority

GB 201710058 A 20170623

Abstract (en)

[origin: EP3418551A2] A method (400) for calibrating a fuel injection pump (106) for a start of a fuel delivery includes calibrating a pressure gauge (200) of an air supply system (172) to a target reading by providing an air flow from the air supply system (172) to a calibration nozzle (176). The pressure gauge (200) is configured to monitor a pressure differential across a membrane (184) of the air supply system (172). The method (400) includes passing the air flow from the air supply system (172) through an air gap (160) defined by one or more bores (150,152) of the fuel injection pump (106), and monitoring a reading of the pressure gauge (200). The method (400) includes moving a plunger (140) of the fuel injection pump (106) to close, at least partly, the air gap (160) to attain the target reading on the pressure gauge (200).

IPC 8 full level

**F02M 65/00** (2006.01); **F04B 51/00** (2006.01)

CPC (source: EP GB)

**F02D 1/00** (2013.01 - GB); **F02M 59/00** (2013.01 - EP); **F02M 65/00** (2013.01 - GB); **F02M 65/002** (2013.01 - EP); **F04B 49/08** (2013.01 - EP); **F04B 49/12** (2013.01 - GB); **F04B 51/00** (2013.01 - EP)

Cited by

CN114263555A; CN112628047A; US10385846B2

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)

**EP 3418551 A2 20181226**; **EP 3418551 A3 20190102**; **EP 3418551 B1 20200729**; GB 201710058 D0 20170809; GB 2563663 A 20181226

DOCDB simple family (application)

**EP 18176648 A 20180607**; GB 201710058 A 20170623