

Title (en)  
METHOD AND DEVICE FOR CALIBRATING A PRESSURE SENSOR

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM KALIBRIEREN EINES DRUCKSENSORS

Title (fr)  
PROCEDE ET DISPOSITIF POUR ETALONNER UN CAPTEUR DE PRESSION

Publication  
**EP 1255926 B1 20090729 (DE)**

Application  
**EP 01911382 A 20010124**

Priority

- DE 0100271 W 20010124
- DE 10003906 A 20000129

Abstract (en)  
[origin: WO0155573A2] The invention relates to a method and a device for calibrating a pressure sensor (7) of a fuel dosing system of an internal combustion engine. Said fuel dosing system comprises a high-pressure pump (2) that delivers fuel from a low-pressure zone (ND) to a high-pressure zone (HD). The injectors (5) that dose the fuel from the high-pressure zone (HD) into the combustion chambers (6) of the internal combustion engine are controlled according to working characteristics. The dosing system further comprises the pressure sensor (7) that measures the pressure in the high-pressure zone (HD). The aim of the invention is to calibrate the pressure sensor (7) in such a manner that the offset-error can be reduced to a minimum. To this end, the pressure in the high-pressure zone (HD) is used as a reference pressure, the pressure in the high-pressure zone (HD) is measured by the pressure sensor (7) as the sensor pressure and the characteristic line of the pressure sensor (7) is corrected in such a manner that the difference from reference pressure and sensor pressure is reduced to a minimum.

IPC 8 full level  
**F02D 41/24** (2006.01); **F02D 41/32** (2006.01); **F02D 41/38** (2006.01); **F02D 45/00** (2006.01); **F02M 65/00** (2006.01); **G01L 27/00** (2006.01)

CPC (source: EP US)  
**F02D 41/2441** (2013.01 - EP US); **F02D 41/2474** (2013.01 - EP US); **F02D 41/3836** (2013.01 - EP US); **F02M 65/00** (2013.01 - EP US); **F02D 41/2432** (2013.01 - EP US); **F02D 41/3854** (2013.01 - EP US); **F02D 2041/223** (2013.01 - EP US); **F02D 2250/31** (2013.01 - EP US)

Designated contracting state (EPC)  
DE ES FR IT

DOCDB simple family (publication)  
**WO 0155573 A2 20010802; WO 0155573 A3 20020214**; DE 10003906 A1 20010809; DE 50115013 D1 20090910; EP 1255926 A2 20021113; EP 1255926 B1 20090729; ES 2328105 T3 20091110; JP 2003535313 A 20031125; JP 4791671 B2 20111012; RU 2002121651 A 20040310; RU 2260142 C2 20050910; US 2003046990 A1 20030313; US 6802209 B2 20041012

DOCDB simple family (application)  
**DE 0100271 W 20010124**; DE 10003906 A 20000129; DE 50115013 T 20010124; EP 01911382 A 20010124; ES 01911382 T 20010124; JP 2001555680 A 20010124; RU 2002121651 A 20010124; US 18246402 A 20020905