

Title (en)

SYSTEM AND METHOD FOR CONTROLLING A CONTROL VALVE FOR A DIESEL FUEL INJECTION SYSTEM

Title (de)

ANORDNUNG UND VERFAHREN ZUR REGELUNG EINES STEUERVENTILS FÜR EIN DIESEL-EINSPRITZSYSTEM

Title (fr)

SYSTEME ET PROCEDE DE REGULATION D'UNE SOUPAPE DE COMMANDE DE SYSTEME D'INJECTION POUR MOTEUR DIESEL

Publication

**EP 1157205 B1 20020911 (DE)**

Application

**EP 00916760 A 20000224**

Priority

- DE 0000521 W 20000224
- DE 19908812 A 19990301

Abstract (en)

[origin: WO0052326A1] The invention relates to a system and a method for controlling a control valve for a diesel fuel injection system, comprising a fuel injector with a pressure amplifier. The control valve (10) is positioned upstream of the pressure amplifier. The valve spool (20) of the control valve (10) is moved back and forth by two physically separate magnetic coils (30, 32). When one of said two magnetic coils (30; 32) is electrically controlled by a control current the other magnetic coil (32; 30) is switched to a sensor function so that the current induced in the sensor by a movement of the valve spool (20) is detected.

IPC 1-7

**F02M 59/46**; **F02M 57/02**; **F02M 59/10**; **F02M 65/00**

IPC 8 full level

**F02M 57/02** (2006.01); **F02M 59/10** (2006.01); **F02M 59/46** (2006.01); **F02M 65/00** (2006.01)

CPC (source: EP US)

**F02M 57/025** (2013.01 - EP US); **F02M 59/105** (2013.01 - EP US); **F02M 59/466** (2013.01 - EP US); **F02M 63/004** (2013.01 - EP US); **F02M 65/00** (2013.01 - EP US)

Cited by

US10503181B2; US9835265B2; US9657946B2; US9683674B2; US10215291B2; US10697815B2; US9851103B2; US10851993B2; US9645584B2; US10203049B2; US10422531B2; US11421875B2; US9846440B2; US10564062B2; US9995486B2; US10024439B2; US10697632B2; US9841122B2; US11073281B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**WO 0052326 A1 20000908**; DE 50000490 D1 20021017; EP 1157205 A1 20011128; EP 1157205 B1 20020911; US 2002029765 A1 20020314; US 6494187 B2 20021217

DOCDB simple family (application)

**DE 0000521 W 20000224**; DE 50000490 T 20000224; EP 00916760 A 20000224; US 94449801 A 20010831