

Title (en)

METHOD FOR REGULATING A PRESSURE-CONTROL VALVE IN A FUEL-INJECTION SYSTEM OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM ANSTEUERN EINES DRUCKREGELVENTILS IN EINEM KRAFTSTOFFEINSPRITZSYSTEM EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE POUR COMMANDER UNE SOUPAPE DE REGULATION DE PRESSION DANS UN SYSTEME D'INJECTION DE CARBURANT D'UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1581735 A1 20051005 (DE)**

Application

**EP 03775075 A 20031024**

Priority

- DE 0303533 W 20031024
- DE 10261446 A 20021231

Abstract (en)

[origin: WO2004061285A1] The invention relates to a method, a computer program and a regulator for regulating a pressure-control valve (200) in a fuel-injection system (700) of an internal combustion engine. Said method comprises the following steps: determination of a provisional current target value with the aid of a nominal pressure-current characteristic curve of pressure-control valves for regulating the pressure-control valve; determination of a deviation by comparing a predefined pressure target value for a fuel accumulator (710) with the actual pressure in the fuel accumulator; determination of a current correction value in accordance with the determined deviation and determination of a corrected current target value by correcting the provisional current target value using the current correction value. The aim of the invention is to permit this type of adaptation of the current target value or this type of adaptation of the pressure-current characteristic curve even in a non-stationary mode of the internal combustion engine. To achieve this, the method is only carried out when the internal combustion engine is operated in an overrun mode.

IPC 1-7

**F02D 41/38**; F02D 41/12; F02D 41/14; F02M 63/00

IPC 8 full level

**F02D 41/12** (2006.01); **F02D 41/14** (2006.01); **F02D 41/24** (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP)

**F02D 41/123** (2013.01); **F02D 41/1401** (2013.01); **F02D 41/2464** (2013.01); **F02D 41/3863** (2013.01); **F02D 41/2441** (2013.01); **F02D 41/3845** (2013.01); **F02D 2041/141** (2013.01); **F02D 2041/1418** (2013.01); **F02D 2250/31** (2013.01)

Citation (search report)

See references of WO 2004061285A1

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

**DE 10261446 A1 20040708**; AU 2003283195 A1 20040729; DE 50310764 D1 20081218; EP 1581735 A1 20051005; EP 1581735 B1 20081105; WO 2004061285 A1 20040722

DOCDB simple family (application)

**DE 10261446 A 20021231**; AU 2003283195 A 20031024; DE 0303533 W 20031024; DE 50310764 T 20031024; EP 03775075 A 20031024