

Title (en)

METHOD FOR ADAPTING MIXTURE CONTROL IN INTERNAL COMBUSTION ENGINES WITH DIRECT FUEL INJECTION

Title (de)

VERFAHREN ZUR GEMISCHADAPTION BEI VERBRENNUNGSMOTOREN MIT BENZINDIREKTEINSPRITZUNG

Title (fr)

PROCEDE D'ADAPTATION DE MELANGE DANS DES MOTEURS A COMBUSTION INTERNE AVEC INJECTION DIRECTE D'ESSENCE

Publication

EP 1315895 A1 20030604 (DE)

Application

EP 01971658 A 20010831

Priority

- DE 0103290 W 20010831
- DE 10043072 A 20000901

Abstract (en)

[origin: WO218768A1] The invention relates to a method for compensating for incorrect adaptations of the precontrol of the fuel metering of an internal combustion engine that is operated in at least two operating modes, namely homogeneous normal operation and stratified charge operation. The inventive method is further characterized in that mixture control and adaptation of said mixture control takes place in the homogeneous normal operation. Depending on a desired operation, the control switches between the two operating modes, said desired operation being determined by a plurality of operating mode requirements, a priority being allocated to every operating mode requirement. The desired operation is determined depending on the priorities of the operating mode requirements. The physical urgency of the adaptation is increased by different intervals, thereby requiring a switch to the homogeneous operation.

IPC 1-7

F02D 41/26; **F02D 41/14**

IPC 8 full level

F02M 25/08 (2006.01); **F02D 41/02** (2006.01); **F02D 41/14** (2006.01); **F02D 41/22** (2006.01); **F02D 41/26** (2006.01); **F02D 41/30** (2006.01); **F02D 43/00** (2006.01); **F02D 45/00** (2006.01); **F02D 41/00** (2006.01)

CPC (source: EP KR US)

F02D 41/22 (2013.01 - EP US); **F02D 41/24** (2013.01 - KR); **F02D 41/2441** (2013.01 - EP US); **F02D 41/2454** (2013.01 - EP US); **F02D 41/26** (2013.01 - EP US); **F02D 41/263** (2013.01 - EP US); **F02D 41/3076** (2013.01 - EP US); **F02D 41/003** (2013.01 - EP US); **F02D 41/2448** (2013.01 - EP US); **F02D 41/2467** (2013.01 - EP US); **F02D 41/3029** (2013.01 - EP US); **F02D 2041/389** (2013.01 - EP US)

Citation (search report)

See references of WO 0218768A1

Designated contracting state (EPC)

DE ES FR SE

DOCDB simple family (publication)

WO 0218768 A1 20020307; CN 1388859 A 20030101; DE 10043072 A1 20020314; DE 50108917 D1 20060420; EP 1315895 A1 20030604; EP 1315895 B1 20060208; ES 2256295 T3 20060716; JP 2004507657 A 20040311; KR 20020068332 A 20020827; US 2003101963 A1 20030605; US 6655346 B2 20031202

DOCDB simple family (application)

DE 0103290 W 20010831; CN 01802672 A 20010831; DE 10043072 A 20000901; DE 50108917 T 20010831; EP 01971658 A 20010831; ES 01971658 T 20010831; JP 2002522661 A 20010831; KR 20027005543 A 20020430; US 12908802 A 20020821