

Title (en)

METHOD AND DEVICE FOR CONTROLLING THE COMBUSTION MODE OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG DER BETRIEBSART EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE ET DISPOSITIF DE COMMANDE DU MODE DE COMBUSTION D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1115965 A1 20010718 (FR)

Application

EP 00938888 A 20000605

Priority

- FR 0001539 W 20000605
- FR 9909617 A 19990723

Abstract (en)

[origin: US6584952B1] Device for controlling the mode of combustion of a controlled-ignition four-stroke petrol engine (1) equipped with a system (2) for the direct injection of fuel into the combustion chamber, with at least one catalytic converter (3) placed in the exhaust line (4) of the engine (1) and with a control system (5) receiving information from sensors (6, 7, 9, 10) relating to the rotational speed and to the load of the engine, to the position of the accelerator pedal, and to the temperatures of the engine and of the exhaust gases, characterized in that the control system (5) includes a device for choosing a priority mode of combustion taking account of the said information and on the basis of an estimate of the combustion efficiency of the various modes available.

IPC 1-7

F02D 41/30; **F02D 41/38**; **F02D 41/14**

IPC 8 full level

F02D 45/00 (2006.01); **F01N 3/20** (2006.01); **F01N 3/24** (2006.01); **F02D 29/02** (2006.01); **F02D 41/02** (2006.01); **F02D 41/04** (2006.01); **F02D 41/06** (2006.01); **F02D 41/30** (2006.01)

CPC (source: EP US)

F02D 41/0235 (2013.01 - EP US); **F02D 41/3076** (2013.01 - EP US); **F02D 41/1446** (2013.01 - EP US); **F02D 41/3029** (2013.01 - EP US); **F02D 2041/1432** (2013.01 - EP US); **F02D 2041/389** (2013.01 - EP US)

Citation (search report)

See references of WO 0107769A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6584952 B1 20030701; AT E264996 T1 20040515; DE 60010031 D1 20040527; DE 60010031 T2 20041028; EP 1115965 A1 20010718; EP 1115965 B1 20040421; ES 2216903 T3 20041101; FR 2796670 A1 20010126; FR 2796670 B1 20011026; JP 2003505639 A 20030212; JP 4527919 B2 20100818; WO 0107769 A1 20010201

DOCDB simple family (application)

US 76355001 A 20010420; AT 00938888 T 20000605; DE 60010031 T 20000605; EP 00938888 A 20000605; ES 00938888 T 20000605; FR 0001539 W 20000605; FR 9909617 A 19990723; JP 2001512172 A 20000605