

Title (en)

Method for controlling an internal combustion engine

Title (de)

Verfahren zum Betreiben eines Verbrennungsmotors

Title (fr)

Méthode de commande d'un moteur à combustion interne

Publication

EP 1541839 B1 20100721 (DE)

Application

EP 03104619 A 20031210

Priority

EP 03104619 A 20031210

Abstract (en)

[origin: EP1541839A1] The engine has 4-stroke cylinders with controlled auto ignition and spark ignition. If misfiring occurs during controlled auto-ignition mode, the cylinder is re-ignited in spark ignition mode during the cycle following that misfiring. The cylinder is operated at moderate load and engine RPM. A considerable amount of residual gas (3) from a cycle preceding the misfiring is returned, so that controlled auto-ignition is initiated. The ignition is switched-off during auto-ignition mode. The fuel/air ratio is adapted, and fuel is injected into the cylinder to ensure that ignition following misfiring is successful.

IPC 8 full level

F02D 41/14 (2006.01); **F02B 1/12** (2006.01); **F02D 41/22** (2006.01); **F02D 41/30** (2006.01)

CPC (source: EP)

F02D 41/1498 (2013.01); **F02D 41/3035** (2013.01); **F02D 41/3076** (2013.01); **F02B 1/12** (2013.01); **F02D 41/006** (2013.01); **F02D 2041/001** (2013.01); **F02D 2200/1015** (2013.01)

Cited by

DE102007053775A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1541839 A1 20050615; **EP 1541839 B1 20100721**; DE 50312910 D1 20100902

DOCDB simple family (application)

EP 03104619 A 20031210; DE 50312910 T 20031210