

Title (en)  
Combustion control apparatus for internal combustion engine

Title (de)  
Vorrichtung zur Steuerung der Verbrennung in einer Brennkraftmaschine

Title (fr)  
Appareil de commande de combustion pour moteur à combustion interne

Publication  
**EP 1479898 A3 20111116 (EN)**

Application  
**EP 04011991 A 20040519**

Priority  
JP 2003145220 A 20030522

Abstract (en)  
[origin: EP1479898A2] There is provided a combustion control apparatus which serves to enable the There is provided a combustion control apparatus which serves to enable the engine to perform stable combustion and provide better acceleration or deceleration performance. Specifically, a switching determination parameter for switching from low air fuel ratio combustion into high air fuel ratio combustion is made to be a required fuel injection amount (eqgov), which is an amount of fuel injected into the combustion chamber corresponding to an engine load required by a driver. A switching determination parameter for switching from the high air fuel ratio combustion into the low air fuel ratio injection combustion is made to be an actual fuel injection amount (eqfin), which is an amount of fuel injected into the combustion chamber upon each fuel injection.

IPC 8 full level  
**F02D 41/06** (2006.01); **F02D 45/00** (2006.01); **F02D 41/02** (2006.01); **F02D 41/10** (2006.01); **F02D 41/12** (2006.01); **F02D 41/14** (2006.01); **F02D 41/38** (2006.01); **F02D 41/40** (2006.01); **F02D 43/00** (2006.01); **F02D 41/00** (2006.01)

CPC (source: EP)  
**F02D 41/064** (2013.01); **F02D 41/1475** (2013.01); **F02D 41/0007** (2013.01); **F02D 41/187** (2013.01); **F02D 2200/0406** (2013.01); **F02D 2200/0602** (2013.01); **F02D 2200/602** (2013.01)

Citation (search report)

- [A] US 5765533 A 19980616 - NAKAJIMA YUKI [JP]
- [A] EP 0950805 A2 19991020 - YAMAHA MOTOR CO LTD [JP]
- [A] EP 0984154 A2 20000308 - TOYOTA MOTOR CO LTD [JP]

Cited by  
US11781499B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL HR LT LV MK

DOCDB simple family (publication)  
**EP 1479898 A2 20041124; EP 1479898 A3 20111116; EP 1479898 B1 20130403; JP 2004346835 A 20041209; JP 4175952 B2 20081105**

DOCDB simple family (application)  
**EP 04011991 A 20040519; JP 2003145220 A 20030522**