

Title (en)  
DEVICE FOR CONTROLLING AN INTERNAL COMBUSTION ENGINE

Title (de)  
VORRICHTUNG ZUM STEuern EINER BRENNKRAFTMASCHINE

Title (fr)  
DISPOSITIF DE COMMANDE D'UN MOTEUR A COMBUSTION INTERNE

Publication  
**EP 1608861 B1 20080423 (DE)**

Application  
**EP 04820452 A 20041110**

Priority  
• EP 2004052912 W 20041110  
• DE 10358988 A 20031216

Abstract (en)  
[origin: DE10358988B3] The fuel injection control uses a measuring signal from an exhaust gas sensor positioned in the engine exhaust for indicating the fuel/air ratio for each engine cylinder, a first regulator (B3), with an integral regulation characteristic, supplied with the difference between the actual and the estimated fuel/air ratios, for providing a first estimation value, fed to a second regulator (B5) with a proportional regulation characteristic, providing a lambda regulation factor for correcting the calculated fuel mass for each cylinder, used for control of the fuel injection valve. The lambda regulation factor is fed to a filter (B7) providing a second estimation value, compared with the first estimation value for provision of the estimated fuel/air ratio.

IPC 8 full level  
**F02D 41/34** (2006.01); **F02D 41/00** (2006.01); **F02D 41/14** (2006.01)

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