

Title (en)  
APPARATUS FOR THE CONTROL AND REGULATION OF A DIESEL ENGINE

Publication  
**EP 0385969 B1 19921028 (DE)**

Application  
**EP 90890050 A 19900226**

Priority  
DE 3906083 A 19890227

Abstract (en)  
[origin: EP0385969A1] A device for controlling a diesel engine, comprising an electronic base controller (3) which is supplied with signals from transmitters and sensors (4, 5, 6) for detecting operating variables of the engine and the output signal of which is utilised for driving an actuator (2) for the quantity of fuel supplied to the engine. This device has a soot value sensor (8), with a setpoint memory (12) for the maximum permissible soot value (AGMS), a memory (13) for values of an operating point vector (AP(tm)), which consists of values of operating variables, which values are retarded by the measuring dead time ( DELTA t) of the soot value sensor with respect to the time (tv) of the setpoint comparison, an adaptive engine map (15) in which a maximum permissible drive signal (RWM) is determined in dependence on the operating point vector (AP), a minimum-value selection stage (10) for driving the actuator (2), which is supplied with the drive signal (RWM) of the adaptive engine map (15) and the drive signal (RWB) calculated in the base controller (3), and a limit controller (14), which is supplied with the maximum permissible soot value (AGMS) of the setpoint memory (15), the actual soot value (AGi) and a status signal (S) of the minimum-value selection stage (10) and the output signal of which is supplied as a correction signal ( DELTA RW) to the input of the adaptive engine map (15). <IMAGE>

IPC 1-7  
**F02D 41/14**; **F02D 41/38**

IPC 8 full level  
**F02D 35/02** (2006.01); **F02D 41/14** (2006.01); **F02D 41/38** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)  
**F02D 41/1466** (2013.01); **F02B 3/06** (2013.01)

Cited by  
US7340339B1; AT10998U3; AT10999U3; EP1705356A3; AT11000U3; AT11003U3; RU2671552C1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0385969 A1 19900905**; **EP 0385969 B1 19921028**; AT E81890 T1 19921115; DE 3906083 A1 19900830; DE 3906083 C2 19910613; DE 59000383 D1 19921203; ES 2036112 T3 19930501

DOCDB simple family (application)  
**EP 90890050 A 19900226**; AT 90890050 T 19900226; DE 3906083 A 19890227; DE 59000383 T 19900226; ES 90890050 T 19900226