

Title (en)

Injection quantity control apparatus of diesel engine and method

Title (de)

Verfahren und Vorrichtung zur Steuerung der Einspritzmenge einer Dieselmotormaschine

Title (fr)

Dispositif et méthode de commande de la quantité d'injection d'un moteur diesel

Publication

EP 0922845 B1 20040303 (EN)

Application

EP 98123369 A 19981208

Priority

JP 33884797 A 19971209

Abstract (en)

[origin: EP0922845A2] In fuel injection quantity control of a diesel engine, to suppress deterioration of drivability caused by smoothing processing during increase in the fuel injection for acceleration, a road load injection quantity lower limit is set as a basic fuel injection quantity QBASE at start of the smoothing processing for acceleration. This road load injection quantity lower limit is the one corresponding to a minimum friction allowed in the diesel engine. Thus, if a diesel engine to be controlled has a friction smaller than the average friction, the fuel injection quantity can be prevented from being increased sharply far beyond an actual road load injection quantity, thus suppressing the acceleration shock to prevent deterioration of drivability. Further, the stepwise increase in the fuel injection quantity for acceleration at the start of smoothing processing is maintained, thus satisfying the acceleration performance. <IMAGE>

IPC 1-7

F02D 41/10; **F02D 41/38**

IPC 8 full level

F02D 41/04 (2006.01); **F02D 41/10** (2006.01); **F02D 41/38** (2006.01); **F02D 41/40** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)

F02D 41/10 (2013.01); **F02D 41/3827** (2013.01); **F02B 3/06** (2013.01); **F02D 2250/21** (2013.01); **F02D 2250/31** (2013.01)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0922845 A2 19990616; **EP 0922845 A3 20001018**; **EP 0922845 B1 20040303**; DE 69822095 D1 20040408; DE 69822095 T2 20041230; JP 3428407 B2 20030722; JP H11173191 A 19990629

DOCDB simple family (application)

EP 98123369 A 19981208; DE 69822095 T 19981208; JP 33884797 A 19971209