

Title (en)

Method of monitoring torque for spark ignition engines in vehicles

Title (de)

Verfahren zur Drehmomentüberwachung bei Otto-Motoren in Kraftfahrzeugen

Title (fr)

Procédé de contrôle de couple pour moteurs à allumage par étincelle dans les véhicules automobiles

Publication

**EP 1045235 A3 20011031 (DE)**

Application

**EP 00104750 A 20000304**

Priority

DE 19916725 A 19990413

Abstract (en)

[origin: EP1045235A2] The method involves deriving a reference torque value (M0) from the engine revolution rate (n) and the delivered quantity of air (L), correcting it in homogeneous-lean mode with a signal (lambdaist) from a lambda probe and comparing the corrected value with a driver-specified value (Mmax). A torque-reducing intervention in the engine controller is then performed if the corrected reference torque value rises above the driver-specified value by more than a definable factor.

IPC 1-7

**G01L 5/26**; G01M 15/00; B60K 28/10; F02D 41/22; F02D 11/10

IPC 8 full level

**F02D 11/10** (2006.01); **F02D 41/22** (2006.01); **F02D 41/30** (2006.01)

CPC (source: EP US)

**F02D 11/107** (2013.01 - EP US); **F02D 41/22** (2013.01 - EP US); **F02D 41/3029** (2013.01 - EP US); **F02D 2200/1004** (2013.01 - EP US); **F02D 2250/26** (2013.01 - EP US)

Citation (search report)

- [Y] DE 19536038 A1 19970403 - BOSCH GMBH ROBERT [DE]
- [Y] DE 19545221 A1 19970612 - BOSCH GMBH ROBERT [DE]
- [A] DE 19624822 C1 19970814 - DAIMLER BENZ AG [DE]

Cited by

CN103403324A; US8205605B2; US7051710B2; WO03033894A1; WO2008058980A1; WO2012113626A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 1045235 A2 20001018**; **EP 1045235 A3 20011031**; DE 19916725 A1 20001019; DE 19916725 C2 20011108; US 6332452 B1 20011225

DOCDB simple family (application)

**EP 00104750 A 20000304**; DE 19916725 A 19990413; US 53693900 A 20000328