

Title (en)

Torque control device and method for internal combustion engine

Title (de)

Drehmomentsteuerungsvorrichtung für Verbrennungsmotor

Title (fr)

Dispositif de contrôle de couple et procédé pour moteur à combustion interne

Publication

EP 2199578 A1 20100623 (EN)

Application

EP 09173598 A 20091021

Priority

JP 2008325416 A 20081222

Abstract (en)

A torque control device for an internal combustion engine, capable of properly suppressing the vibration of a vehicle by controlling torque output from the engine such that no large variation in the output torque is caused, when the vehicle has a torque converter having a lockup clutch. The torque control device calculates a basic value of a demanded torque for determining the output torque, according to detected operating conditions of the engine, and calculates a filtering characteristic for determining an average torque, and a filtering characteristic for determining a torque correction term, according to a detected degree of engagement of the lockup clutch. The torque control device calculates the demanded torque by filtering correction of the basic value using the filtering characteristics, and calculates a fuel injection amount based on the demanded torque. Torque corresponding to the fuel injection amount is output from the engine.

IPC 8 full level

F02D 41/02 (2006.01)

CPC (source: EP)

F02D 11/105 (2013.01); **F02D 41/022** (2013.01); **F02D 2041/1422** (2013.01); **F02D 2041/1432** (2013.01); **F02D 2250/21** (2013.01); **F02D 2250/28** (2013.01); **F02D 2400/12** (2013.01)

Citation (applicant)

- DE 19549081 A1 19970703 - BOSCH GMBH ROBERT [DE]
- EP 0881376 A2 19981202 - DAIMLER BENZ AG [DE]
- US 2005054482 A1 20050310 - DOERING JEFFREY A [US], et al

Citation (search report)

- [XY] DE 19549081 A1 19970703 - BOSCH GMBH ROBERT [DE]
- [Y] EP 0881376 A2 19981202 - DAIMLER BENZ AG [DE]
- [X] US 2005054482 A1 20050310 - DOERING JEFFREY A [US], et al

Designated contracting state (EPC)

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DOCDB simple family (application)

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