

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)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**EP 2199578 A1 20100623**; **EP 2199578 B1 20130508**; JP 2010144686 A 20100701; JP 4738473 B2 20110803

DOCDB simple family (application)

**EP 09173598 A 20091021**; JP 2008325416 A 20081222