

Title (en)

Method for controlling idling fuel supply amount and apparatus therefor

Title (de)

Verfahren und Vorrichtung zur Regelung der Brennstoffzufuhr bei Leerlauf

Title (fr)

Procédé et appareil de régulation de l'alimentation en carburant au ralenti

Publication

**EP 1555414 A1 20050720 (EN)**

Application

**EP 05008644 A 20011211**

Priority

- EP 01274026 A 20011211
- JP 2001074577 A 20010315

Abstract (en)

An integration correction term is calculated on the basis of a deviation of an actual rotation speed with respect to a target rotation speed of an internal combustion engine when the internal combustion engine is idling and used to correct a fuel supply amount, thus controlling an idling rotation speed of the internal combustion engine. At the time of and/or immediately after initiation of the internal combustion engine, prospective correction in accordance with friction which exists at an early initiation stage of the internal combustion engine is conducted on the fuel supply amount. <IMAGE>

IPC 1-7

**F02D 41/16**; **F02D 41/06**

IPC 8 full level

**F02D 45/00** (2006.01); **F02D 29/00** (2006.01); **F02D 29/02** (2006.01); **F02D 29/04** (2006.01); **F02D 31/00** (2006.01); **F02D 41/04** (2006.01); **F02D 41/06** (2006.01); **F02D 41/08** (2006.01); **F02D 41/16** (2006.01); **F02D 41/02** (2006.01)

CPC (source: EP)

**F02D 31/008** (2013.01); **F02D 41/0225** (2013.01); **F02D 41/06** (2013.01); **F02D 41/061** (2013.01); **F02D 41/062** (2013.01); **F02D 41/16** (2013.01); **F02D 41/065** (2013.01); **F02D 41/083** (2013.01); **F02D 41/086** (2013.01); **F02D 2041/1409** (2013.01); **F02D 2041/2048** (2013.01)

Citation (search report)

- [A] US 5722368 A 19980303 - SAKAI SHOICHI [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 244 (M - 337) 9 November 1984 (1984-11-09)
- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 073 (M - 368) 3 April 1985 (1985-04-03)

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 1369570 A1 20031210**; **EP 1369570 A4 20041103**; **EP 1369570 B1 20170531**; CZ 20023720 A3 20030312; CZ 302163 B6 20101124; DE 60122949 D1 20061019; DE 60122949 T2 20070315; EP 1555414 A1 20050720; EP 1555414 B1 20060906; EP 1715164 A1 20061025; EP 1715164 B1 20141203; ES 2273295 T3 20070501; ES 2528138 T3 20150204; ES 2634837 T3 20170929; HU 229844 B1 20141028; HU P0302250 A2 20051228; HU P0302250 A3 20060228; JP 2002276438 A 20020925; PL 206426 B1 20100831; PL 360119 A1 20040906; WO 02077431 A1 20021003

DOCDB simple family (application)

**EP 01274026 A 20011211**; CZ 20023720 A 20011211; DE 60122949 T 20011211; EP 05008644 A 20011211; EP 06116325 A 20011211; ES 01274026 T 20011211; ES 05008644 T 20011211; ES 06116325 T 20011211; HU P0302250 A 20011211; JP 0110823 W 20011211; JP 2001074577 A 20010315; PL 36011901 A 20011211