

Title (en)

Pre-controlling process of a variable lift fuel pump in an Internal combustion engine

Title (de)

Verfahren zum Vorsteuern einer Hub Kolben Kraftstoffpumpe einer Brennkraftmaschine

Title (fr)

Procédé de prééglage de la pompe à carburante à course de piston variable d'un moteur à combustion

Publication

**EP 1529948 A3 20060906 (DE)**

Application

**EP 04021981 A 20040916**

Priority

DE 10351914 A 20031107

Abstract (en)

[origin: EP1529948A2] Process for pre-controlling a reciprocating fuel pump of a vehicle comprises from the starting values determining the fuel volume removal from a high pressure rail by the injection valve per stroke of the pump, determining the fuel volume necessary for a change of theoretical pressure in the high pressure rail per stroke of the pump, and determining the volume loss by a non-optimum degree of delivery based on the formation of steam bubbles in the fuel. Preferred Features: The reciprocating pump is driven by a camshaft of an internal combustion engine.

IPC 8 full level

**F02D 41/38** (2006.01); **F02M 59/10** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)

**F02D 41/3845** (2013.01); **F02M 63/0225** (2013.01); **F02M 63/028** (2013.01); **F02D 2041/141** (2013.01); **F02D 2250/02** (2013.01)

Citation (search report)

- [A] DE 10236654 A1 20030724 - MITSUBISHI ELECTRIC CORP [JP]
- [A] US 6446610 B1 20020910 - MAZET HENRI [FR]
- [A] DE 10158950 A1 20030626 - BOSCH GMBH ROBERT [DE]
- [A] EP 0936352 A2 19990818 - TOYOTA MOTOR CO LTD [JP]

Cited by

CN113339152A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1529948 A2 20050511**; **EP 1529948 A3 20060906**; **EP 1529948 B1 20110727**; AT E518054 T1 20110815; DE 10351914 A1 20050915

DOCDB simple family (application)

**EP 04021981 A 20040916**; AT 04021981 T 20040916; DE 10351914 A 20031107