

Title (en)

Fuel injection control device, engine and straddle type vehicle

Title (de)

Vorrichtung zur Mengenregelung, Motor und Grätschsfahrzeug

Title (fr)

Dispositif de contrôle d'injection de carburant et véhicule de type à enfourcher

Publication

EP 2093404 A3 20120613 (EN)

Application

EP 09004419 A 20080219

Priority

- EP 08250576 A 20080219
- JP 2007039260 A 20070220

Abstract (en)

[origin: EP1975397A1] A fuel injection control device provides improvements in engine output, fuel efficiency and throttle response while reducing smoke emissions. If a throttle opening exceeds a prescribed value (a) and an engine load is in a prescribed high load range, an in-pipe injection by an in-pipe injector is used together in addition to an in-cylinder injection by an in-cylinder injector. In a low load range, in which an engine load is smaller than in the high load range, only the in-cylinder injection by the in-cylinder injector is used.

IPC 8 full level

F02D 41/30 (2006.01)

CPC (source: EP)

F02D 41/3029 (2013.01); **F02D 41/3094** (2013.01)

Citation (search report)

- [X] US 2006144365 A1 20060706 - MIYASHITA SHIGEKI [JP]
- [X] US 2006207240 A1 20060921 - ARAKI KOJI [JP], et al
- [X] US 2006005812 A1 20060112 - MASHIKI ZENICHIRO [JP]
- [X] WO 2006079172 A1 20060803 - ORBITAL ENG PTY [AU], et al
- [X] US 7159568 B1 20070109 - LEWIS DONALD J [US], et al

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US9309827B2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 1975397 A1 20081001; EP 1975397 B1 20130612; EP 2093404 A2 20090826; EP 2093404 A3 20120613; JP 2008202493 A 20080904

DOCDB simple family (application)

EP 08250576 A 20080219; EP 09004419 A 20080219; JP 2007039260 A 20070220