Title (en)

Air/fuel mixture ratio control system for internal combustion engine with feature of learning correction coefficient including altitude dependent factor.

Title (de)

Luft/Kraftstoff-Verhältnis-Steuersystem für Innenbrennkraftmaschine mit der Fähigkeit einen einen höhenabhängigen Faktor enthaltenden Korrektionskoeffizienten zu lernen.

Title (fr)

Système de commande de rapport air-carburant pour moteur à composition interne avec coefficient de correction adaptative comprenant un facteur dépendant de l'altitude.

Publication

EP 0292973 A2 19881130 (EN)

Application

EP 88108437 A 19880526

Priority

- JP 12989387 A 19870528
- JP 13182687 A 19870529

Abstract (en)

An air/fuel ratio control system controls fuel delivery amount on the basis of oxygen concentration in an exhaust gas. An air/fuel ratio dependent correction value is derived on the basis of the oxygen concentration. The air/fuel ratio control is performed in feedback mode and open loop mode. In feedback mode, fuel delivery amount is corrected utilizing a correction value which includes a learnt component. Learning of the learnt component is performed during feedback mode operation. The learnt component comprises an uniformly applicable air density dependent factor and a engine driving range dependent factor which is set with respect to each of the engine driving ranges. Learning of the air density factor and engine driving range dependent factor are selectively performed depending upon the engine driving condition.

IPC 1-7

F02D 41/04; F02D 41/14; F02D 41/26; F02D 41/34

IPC 8 full level

F02D 41/14 (2006.01)

CPC (source: EP)

F02D 41/2441 (2013.01); **F02D 41/2454** (2013.01); F02D 41/1456 (2013.01); F02D 41/2448 (2013.01); F02D 41/248 (2013.01)

Cited by

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Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 0452996 A2 19911023; **EP 0452996 A3 19911121**; **EP 0452996 B1 19930929**; DE 3872948 D1 19920827; DE 3872948 T2 19930114; DE 3884630 D1 19931104; DE 3884630 T2 19940203; EP 0292973 A2 19881130; EP 0292973 A3 19890927; EP 0292973 B1 19920722

DOCDB simple family (application)

EP 91111421 A 19880526; DE 3872948 T 19880526; DE 3884630 T 19880526; EP 88108437 A 19880526