

Title (en)

Hardware architecture of a managing system for start-up and injection phase in an internal combustion engine

Title (de)

Hardware-Architektur eines Verwaltungssystems für Start- und Einspritzphase einer Brennkraftmaschine

Title (fr)

Architecture matérielle d'un système de gestion pour démarrage et phase d'injection dans un moteur

Publication

**EP 1426597 A1 20040609 (EN)**

Application

**EP 02425731 A 20021128**

Priority

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Abstract (en)

The invention relates to a hardware architecture of an ignition and/or injection managing system (1) for an internal combustion engine (2), of the type structured to cooperate with an electronic engine control unit (ECU) (3). The managing system comprises: a first module (4) structured to process electric signals from which the angular position of the engine driving shaft can be obtained; a second module (5) structured to process electric signals from which the cycle phase of the engine (2) can be obtained; a third module (6) structured to generate suitable signals for driving injector "drivers" (7) such that the injection profile stored inside the module is actuated; and a fourth module (13) enabling the third module (6) and receiving signals from the first (4) and second (5) modules and from the third module itself (6). <IMAGE>

IPC 1-7

**F02D 41/34**; F02D 41/24; F02D 41/30

IPC 8 full level

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Citation (search report)

- [XY] US 5794592 A 19980818 - FUKUI WATARU [JP]
- [XY] US 5860406 A 19990119 - SCHMIDT LAWRENCE E [US], et al
- [XY] US 6109224 A 20000829 - MORIKAWA JUNYA [JP], et al
- [A] EP 0582430 A1 19940209 - FORD MOTOR CO [GB], et al

Cited by

EP2738375A3; EP2341448A1; EP2950193A1; US9188074B2; US10042391B2; WO2006029919A1; US10221800B1; US10371082B1

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