

Title (en)

Method and device for the electronic controlling and/or regulating of an automotive combustion engine.

Title (de)

Verfahren und Einrichtung zur elektrischen Steuerung und/oder Regelung einer Brennkraftmaschine eines Kraftfahrzeugs.

Title (fr)

Procédé et dispositif de commande et/ou de régulation du moteur automobile à combustion.

Publication

EP 0446453 B1 19931124 (DE)

Application

EP 90124329 A 19901215

Priority

DE 4004085 A 19900210

Abstract (en)

[origin: JPH04214949A] PURPOSE: To provide an electronic control device for an internal combustion engine of a car capable of monitoring over a wide range the failure of a sensing device to sense the operating parameters for the engine. CONSTITUTION: A sensing device is connected with a member to set the output of an internal combustion engine, in particular a throttle valve, control rack or accel. pedal, and generates at least two signals. The signals are formed so that at least two position signal values vary in the opposite direction to each other when the position of the member to set the output has varied. According to this configuration to perform failure sensing, it is possible to sense a shunt or shortcircuiting between sliders 24 and 26 of a potentiometer in case the sensing device is formed as a double type potentiometer (P1 and P2).

IPC 1-7

F02D 41/22; F02D 11/10; B60K 26/04

IPC 8 full level

B60K 26/04 (2006.01); **B60R 16/02** (2006.01); **F02D 1/00** (2006.01); **F02D 11/10** (2006.01); **F02D 41/22** (2006.01); **F02D 45/00** (2006.01)

CPC (source: EP US)

F02D 11/107 (2013.01 - EP US); **F02D 41/222** (2013.01 - EP US); **F02D 2200/0404** (2013.01 - EP US); **F02D 2200/602** (2013.01 - EP US); **F02D 2400/08** (2013.01 - EP US)

Cited by

FR2860267A1; US10003864B2; EP0841219A2; WO2016050558A1; EP0712463B1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0446453 A1 19910918; **EP 0446453 B1 19931124**; CS 9100296 A2 19910813; CZ 279398 B6 19950412; DE 4004085 A1 19910814; DE 59003628 D1 19940105; JP 3588127 B2 20041110; JP H04214949 A 19920805; US 5260877 A 19931109

DOCDB simple family (application)

EP 90124329 A 19901215; CS 29691 A 19910207; DE 4004085 A 19900210; DE 59003628 T 19901215; JP 1028991 A 19910131; US 65326191 A 19910211