

Title (en)

Electro-pneumatic apparatus with a combined derivative-proportional action for controlling the fuel flow in a carburettor engine for motor vehicles.

Title (de)

Elektropneumatisches Gerät mit proportionaler differenzialer Wirkung zur Steuerung des Kraftstoffflusses durch den Vergaser des Motors eines Motorfahrzeugs.

Title (fr)

Appareil électropneumatique à action dérivée-proportionnelle pour commander le débit d'essence dans un carburateur pour véhicules à moteur.

Publication

EP 0209497 A2 19870121 (EN)

Application

EP 86830187 A 19860702

Priority

IT 6764585 A 19850712

Abstract (en)

The apparatus comprises an electromagnet (3) for cutting off the fuel supply, controlled by a control device (7) for detecting the pressure in the induction manifold (5) of the engine. This control device (7) comprises a rigid casing (10) communicating with the induction manifold (5) of the engine, an electrical control switch (17, 18) for the electromagnet (3) having a movable control member (18) in the casing (10), an aneroid capsule (13) and a capsule (23) having a calibrated hole (24), disposed mechanically in series in the casing (10). These capsules (13, 23) cooperate with each other and act on the movable member (18) of the switch (17, 18) so that the movements of this member (18) are substantially equal to the sum of a first movement proportional to the absolute pressure in the casing (10) (and hence in the induction manifold), and a second movement substantially proportional to the temporal derivative of the pressure in the casing (10).

IPC 1-7

F02D 41/04; **F02D 35/00**

IPC 8 full level

F02D 41/12 (2006.01); **F02D 41/24** (2006.01)

CPC (source: EP)

F02D 41/123 (2013.01); **F02D 41/28** (2013.01)

Cited by

DE3836556A1; US5771861A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0209497 A2 19870121; **EP 0209497 A3 19870325**; **EP 0209497 B1 19881109**; BR 8603340 A 19870224; DE 3661149 D1 19881215; ES 556413 A0 19870501; ES 8705571 A1 19870501; IT 1182512 B 19871005; IT 8567645 A0 19850712

DOCDB simple family (application)

EP 86830187 A 19860702; BR 8603340 A 19860710; DE 3661149 T 19860702; ES 556413 A 19860623; IT 6764585 A 19850712