

Title (en)

DEVICE FOR CONTROLLING AT LEAST ONE THROTTLE CROSS-SECTION AT AT LEAST ONE CONTROL OPENING

Publication

EP 0348432 B1 19910220 (DE)

Application

EP 88903182 A 19880420

Priority

DE 3716661 A 19870519

Abstract (en)

[origin: WO8809435A1] A disadvantage for controlling idling in internal combustion engines is that when the adjusting motor is excited and the spring fails to operate, the device is fully opened and in consequence the internal combustion engine contains a dangerous amount of fuel. The device is designed so that in the exit position it opens an emergency cross-section which corresponds to point (A) on the curve and through which an emergency quantity of fuel can flow per unit time. When an adjusting motor of the device is excited, a throttle organ is first moved against the force of a spring into a position (s1) corresponding to point (B) on the curve in which the maximum possible quantity of fuel can flow through a control opening in unit time. Thereafter, the quantity of fuel per unit time is adjusted by means of the throttle organ as far as position (s2), in which position the throttle organ closes the control opening. Should the spring break while the adjusting motor is excited, the throttle organ is further adjusted into position (s4) corresponding to point (E) on the curve in which a safety cross-section is opened through which can flow a quantity of fuel per unit time less than that which flows through the fully opened control opening. The device is used to adjust idling in internal combustion engines.

IPC 1-7

F02D 9/16; **F02M 3/07**

IPC 8 full level

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CPC (source: EP KR US)

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Citation (examination)

US 4480614 A 19841106 - KOBASHI MAMORU [JP], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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