

Title (en)

Air-fuel ratio control device for injection carburetors.

Title (de)

Luft-Kraftstoff-Verhältnissteuerungsvorrichtung für Einspritzvergaser.

Title (fr)

Dispositif de contrôle du rapport air-carburant pour carburateurs à injection.

Publication

**EP 0422270 A1 19910417 (EN)**

Application

**EP 89118875 A 19891010**

Priority

EP 89118875 A 19891010

Abstract (en)

The air-fuel ratio control device for injection carburetors comprises a slow fuel control unit and a main fuel control unit, each of which includes a negative pressure diaphragm (10 min , 10 sec ) forming a depression chamber into which negative pressures produced dependently on flow rates of air to be sucked and a fuel injection valve (12a min , 12a sec ) for opening and closing a fuel injection port (8a min , 8a sec ). A bypass passage (27) is connected between a main negative pressure passage (25) for introducing negative pressures into the depression chamber of the main fuel control unit and a slow negative pressure passage (26) for introducing negative pressures into the depression chamber of the slow fuel control unit, and an adjusting screw (28) capable of adjusting effective cross sectional area is provided in the bypass passage. This air-fuel ratio control device enables to maintain a constant air-fuel ratio of the mixture during the transition from the slow zone to the main zone and allows engines to exhibit favorable drivability over the entire driving range.

IPC 1-7

**F02M 69/00**; **F02M 69/04**

IPC 8 full level

**F02M 69/20** (2006.01); **F02M 69/46** (2006.01)

CPC (source: EP)

**F02M 69/20** (2013.01); **F02M 69/467** (2013.01)

Citation (search report)

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- [E] PATENT ABSTRACTS OF JAPAN vol. 14, no. 13 (M-918)(3956) 11 January 1990, & JP-A-01 257761 (MIKUNI) 13 October 1989,
- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 245 (M-418)(1968) 02 October 1985, & JP-A-60 98166 (NIHON KIKAKI SEISAKUSHO) 01 June 1985,

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0422270 A1 19910417**; **EP 0422270 B1 19921007**; DE 68903172 D1 19921112

DOCDB simple family (application)

**EP 89118875 A 19891010**; DE 68903172 T 19891010