

Title (en)  
AIR-FUEL RATIO CONTROL DEVICE FOR INJECTION CARBURETORS

Publication  
**EP 0422270 B1 19921007 (EN)**

Application  
**EP 89118875 A 19891010**

Priority  
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Abstract (en)  
[origin: EP0422270A1] 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.

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