

Title (en)  
CARBURETTOR WITH ENRICHMENT DEVICE CONTROLLED BY AN ELECTROMAGNETIC VALVE

Publication  
**EP 0115447 B1 19871028 (FR)**

Application  
**EP 84400005 A 19840103**

Priority  
FR 8300014 A 19830103

Abstract (en)  
[origin: EP0115447A1] 1. Carburetor for an internal combustion engine comprising a main fuel delivery circuit which opens at the throat of a venturi (17) which is located in the induction passage of the carburetor, a circuit for idling and low load running which opens into the induction passage downstream of a driver controlled throttle (12) and an enrichment device for delivering additional fuel to the induction passage during certain phases of operation of an engine fed by the carburetor, the device being provided with an adjustment electrically controlled valve (40) which is energized by an electronic circuit which is responsive to at least one operating parameter of the engine and which is adapted to deliver control pulses having a variable duty ratio, characterized in that it comprises an acceleration pump (23) provided with an inlet conduit having a non-return check valve (25a) and a delivery channel (26) which feeds the induction passage and the idling circuit with fuel, on which channel said electrically controlled valve (40) is located, the pump being arranged for the vacuum which prevails in the induction passage to be able to draw fuel through the pump and the electrically controlled valve when the latter is open, in that the electronic circuit (41) is responsive to at least one operating parameter among speed, engine temperature and degree of opening of the throttle, and in that the delivery channel (26) of the pump opens into the induction passage, at a location close to the throat of the venturi, through two coaxial passages (28, 42) which are separated by a chamber which communicates with the idling circuit (18) of the carburetor, which possibly has no other fuel supply than the acceleration pump.

IPC 1-7  
**F02M 7/08**; **F02M 3/08**

IPC 8 full level  
**F02M 3/08** (2006.01); **F02M 7/093** (2006.01)

CPC (source: EP US)  
**F02M 3/08** (2013.01 - EP US); **F02M 7/093** (2013.01 - EP US)

Cited by  
US10054081B2; FR2619163A1; EP0208802A1; EP0209073A3; US10240543B2; US10794313B2

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