

Title (en)  
HIGH-SPEED CARBURETTER FOR AN OTTO ENGINE

Publication  
**EP 0138070 B1 19880824 (DE)**

Application  
**EP 84110945 A 19840913**

Priority  
DE 3337261 A 19831013

Abstract (en)  
[origin: US4627401A] A high-velocity carburetor for an Otto engine comprising a slide for changing the cross-section of the suction pipe, a nozzle connection receiving nozzles and a profiled nozzle needle seated on the slide and controlling the cross-section of the nozzle. One object is the precise adjustment of the air admixture and thus an optimum mixture regulation as a function of the most important parameters for the operational conditions. The nozzle connection contains two nozzles, situated coaxially to one another and separated from one another by an intermediate chamber. The intermediate chamber is connected to an outlet channel of a flow control valve having a ferromagnetic membrane-like valve plate. The valve plate is operable by two coils opposing each other and being connected to push-pull outputs of a pulse generator with adjustable pulse duty factor. An input channel of the flow control valve is connected with the atmospheric air via an air filter. For the control of the pulse duty factor an address memory is provided which can be addressed by load values, speed values, and temperature values and which contains in the form of a performance characteristic field information values for the pulse duty factor so that the pulse duty factor and thus the air admixture in the intermediate chamber can be adjusted in accordance with said information values.

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