

Title (en)  
CARBURETOR

Publication  
**EP 0002952 B1 19811230 (EN)**

Application  
**EP 78300897 A 19781222**

Priority  
US 86507877 A 19771227

Abstract (en)  
[origin: EP0002952A1] Carburetor components and carburetor providing a uniform mixture of fuel and air by a high degree of atomization of the fuel. The carburetor comprises an upstream air valve (11) and a downstream throttle valve (30) which is positively controlled to regulate the engine. Engine suction acts on the air valve to control the relative air and fuel flows. Fuel discharge orifices (22) are provided in the surface of the air valve (11) and movement of the air valve (11) is such that the orifices (22) are always located in a region of the intake path where the airflow is highest. This provides for good atomization of the fuel and hence the generation of a uniform air fuel mixture for delivery to the combustion chamber or chambers. The air valve preferably takes the form of a flap pivotable about an axis such that a remote edge (21) thereof moves towards and away from a wall of the carburetor body (1). The fuel discharge orifices (22) are normally formed in the edge (21) and a manifold (23) distributes fuel thereto from ducts (24) also formed in the valve (11) communicating with a bore (26) in a shaft (25) defining the pivotal axis of the valve (11). The flap may be formed in two parts secured to one another to define the various fuel passageways.

IPC 1-7  
**F02M 9/08**; **F02M 17/10**; **F02M 13/06**; **F16K 1/22**; **F02M 19/00**

IPC 8 full level  
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