

Title (en)

Carburetion system.

Title (de)

Vergaservorrichtung.

Title (fr)

Dispositif de carburation.

Publication

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Application

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Priority

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Abstract (en)

A pressurized fuel carburetion system for internal combustion engines wherein varying velocities and pressures are produced in the throat of the carburetor intermixing fuel with the air passing therethrough in such a manner to create a plurality of cortices containing air and fuel mixtures rotating about an axis substantially perpendicular to the carburetor air flow. The carburetor includes a rotating baffle and fuel distributor producing a restriction in the carburetor throat to cause high air flow velocities and low pressures and the air subsequently expands in such a manner as to produce low air flow velocities and higher pressures creating the desired vortices. The fuel distributor is in the form of a rotating cup, and fuel supplied to the cup interior is projected transverse to the air flow immediately prior to the region of vortex generation. Fuel supply control means utilize a plurality of series related valves employing engine manifold pressure and throttle position to control the rate of fuel supply and idling and acceleration fuel requirements are controlled by appropriate valves.

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