

Title (en)
FUEL INJECTION SYSTEM FOR INJECTION CARBURETORS

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Application
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Priority
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Abstract (en)
[origin: EP0397897A1] The fuel injection system for injection carburetors comprises an air section of regulator (5) including a depression chamber (9) and an atmosphere chamber (8) separated from each other by a first diaphragm (7), a fuel section of regulator (6) including a fuel pressure chamber (12) and a fuel injection chamber (13) separated from each other by a second diaphragm (11), a fuel jet (14) communicating the fuel pressure chamber (12) and the fuel injection chamber (13) with each other, a connecting member (15) connected between the first (7) and second diaphragms (11) and equipped with a fuel injection valve (15a) capable of opening and closing a fuel injection port (13a), an acceleration chamber (21) including an auxiliary fuel chamber (24) and an atmosphere chamber (25) separated from each other by a third diaphragm (23), said auxiliary fuel chamber (24) being communicated with said fuel injection chamber (13), and a link (27) or an electromagnetic plunger (31) for increasing and decreasing the volume of the auxiliary fuel chamber (24) in accordance with increase or decrease of opening degree of a throttle valve (2). This fuel injection system is capable of adequately preventing air-fuel ratio of the mixture from being varied in the transient conditions at abrupt acceleration time and abrupt deceleration time by eliminating the mixture lean phenomenon at the acceleration time and mixture rich phenomenon at the deceleration time.

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