

Title (en)

Device for feeding measured quantities of volatile fuel components to the intake conduit of an internal combustion machine.

Title (de)

Vorrichtung zum dosierten Einspeisen flüchtiger Kraftstoffbestandteile in das Ansaugrohr einer Brennkraftmaschine.

Title (fr)

Dispositif pour alimenter le tuyau d'admission d'un moteur à combustion interne en quantités dosées de composants volatils de carburants.

Publication

EP 0546247 B1 19950405 (DE)

Application

EP 92111096 A 19920701

Priority

DE 4139946 A 19911204

Abstract (en)

[origin: CA2079520A1] An apparatus for the temporary storage and controlled feeding of volatile fuel components present in the unfilled space of a fuel tank into the intake manifold of an internal combustion engine includes a vent line connecting the unfilled space with the atmosphere, a storage chamber including an absorption element integrated into the vent line, and at least one conduit connecting the storage chamber with the intake manifold, which conduit is closable by an electromagnetic valve. The valve has at least one inlet port and at least one outlet port, with a main valve seat and an auxiliary valve seat provided between the inlet and the outlet ports. The auxiliary valve seat is closable by a vacuum actuator which is operated by a pressure differential with the atmosphere. When the apparatus is used in connection with an internal combustion engine having a booster, the valve has two outlet ports, one of the outlet ports being connected with the low pressure section of the booster and the other outlet port is connected with the intake manifold. The outlet ports are respectively provided with a check valve which only opens towards the booster or the intake manifold respectively.

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