

Title (en)
FUEL FEED DEVICE, ESPECIALLY FOR COMBINATION WITH A ROTOR CARBURATION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE.

Title (de)
KRAFTSTOFF-ZUFÜHRUNGSVORRICHTUNG, INSBESONDERE FÜR DIE KOMBINATION MIT EINEM ROTOR-VERGASER-SYSTEM EINER BRENNKRAFTMASCHINE.

Title (fr)
DISPOSITIF D'ALIMENTATION EN CARBURANT, EN PARTICULIER POUR UTILISATION AVEC UN SYSTEME DE CARBURATION A ROTOR D'UN MOTEUR A COMBUSTION INTERNE.

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Application
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Abstract (en)
[origin: WO9104404A1] The fuel feed device in combination with a rotor carburation system assures the latter a continuous supply of the fuel needed. When closed, the ball (21a) and ball seat (21b) provide a seal which is practically impossible with a valve slide (22) alone. The movement of the ball (21a) and thus the valve slide (21b) provides the internal combustion engine with the proper quantity of fuel between idling and full load. The varying underpressures in the inlet pipe of the engine and thus in the chamber (33) cause the diaphragm (19) and hence the ball (21a) and the valve slide (22) to move. The electromagnet, consisting of the coil (30), core (29) and armature (27), can operate on the diaphragm (19) and hence on the ball (21a) and valve slide (22) when the engine is cold-started between -10 and -20 C and below. If less fuel is taken by the user (rotor-carburettor), a counter-pressure is produced on the diaphragm (19) in the chamber (34) and thus the gaps between the ball (21a), ball seat (21b), valve slide (22) and the drilling (25) become smaller. Less fuel flows into the chamber (34) and hence into the inlet pipe (9). With the engine on full load, the cross-section of the return drilling (16) becomes smaller and the pressure in the chamber (17) and hence in the drilling (25) is increased, which is desirable in this situation.

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