

Title (en)
Carburettor for an internal-combustion engine.

Title (de)
Vergaser für Brennkraftmaschine.

Title (fr)
Carburateur pour moteur à explosion.

Publication
EP 0218515 A1 19870415 (FR)

Application
EP 86402062 A 19860919

Priority
FR 8513961 A 19850920

Abstract (en)
1. Carburettor in which the air-petrol mixture is formed which is necessary for the operation of an explosion engine, including : - a body (20) positioned as an extension of the induction pipe (21) and having a section of decreased diameter (22) in order to increase the velocity of the air in the induction pipe, - a jet (24) opening into the induction pipe (21) at the level of the section of decreased diameter (22) and delivering petrol, - a throttle valve (25) positioned across the induction pipe (21) and controlling the quantity of air-petrol mixture supplied to the engine, characterized in that it also includes : - an overflow level device (26) consisting of a hollow torus (27) whose axis of revolution (DELTA) is substantially horizontal and is formed by the jet (24), one of the ends (28) of the torus coinciding with the wall of the induction pipe (21) and the other (29) being closed by a mobile plate (30) powered by an electronically controllable electromagnet (31), - a petrol feed (32) connected directly to the petrol pump of the engine and opening into the lower portion of the level device (26) below the jet (24), - at least one pipe (33) for discharging petrol to the tank running from the upper portion of the level device (26) above the jet (24), - in the upper portion of the device a communication (34) between the open air and the volume inside the torus (27), so that the level within the torus (27) of the petrol coming directly from the petrol pump is kept constant above the jet (24), petrol being introduced into the jet (24) by gravity when the plate (30) is slightly parted from the torus (27) by the electromagnet (31).

Abstract (fr)
Carburateur pour moteur à explosion comportant un corps (20) dans le prolongement du collecteur d'admission (21) et doté d'un venturi (22), un gicleur (24) et un papillon des gaz (25), caractérisé en ce qu'il comporte de plus un dispositif de niveau (26) obtenu par débordement constitué par un tore creux (27) d'axe (Δ) confondu avec le gicleur (24), dont une extrémité (29) est obturée ou non par une palette mobile (30) animée par un électroaimant (31) commandable électroniquement, à rapport cyclique d'ouverture variable de sorte que l'essence est maintenue à un niveau constant au-dessus du gicleur (24) et que l'on puisse adapter la richesse du mélange combiné en fonction du rapaport cyclique de commande de l'électroaimant. Application à un moteur de véhicule automobile.

IPC 1-7
F02M 17/06

IPC 8 full level
F02M 17/06 (2006.01)

CPC (source: EP)
F02M 17/06 (2013.01)

Citation (search report)
• [A] FR 406639 A 19100204 - CHARLES AUGUSTE HONORE LAILLET [FR], et al
• [A] GB 1319499 A 19730606 - MIKUNI KOGYO KK

Cited by
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EP 0218515 A1 19870415; EP 0218515 B1 19880831; DE 3660638 D1 19881006; FR 2587759 A1 19870327; FR 2587759 B1 19871211

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