

Title (en)

Fuel injection device for a two-stroke engine.

Title (de)

Kraftstoffeinspritzeinrichtung für Zweitaktmotoren.

Title (fr)

Dispositif d'injection de carburant pour moteur à deux temps.

Publication

EP 0133178 A2 19850213 (FR)

Application

EP 84870104 A 19840716

Priority

- BE 211260 A 19830728
- BE 213014 A 19840528

Abstract (en)

[origin: US4627390A] A pump body which comprises three chambers, a first chamber communicating with the outer atmosphere and the air intake or the exhaust pipe, a second chamber communicating with the precompression casing of the engine, said second chamber being separated from the first chamber by a movable partition integral with a support held by a spring with a piston resting on the support and sliding axially in a channel when the movable partition displaces the support, and a third chamber having an opening communicating with the fuel intake line and an opening connected by a tube to a fuel injector opening into the drive cylinder in a substantially radial direction so as to spray the fuel over the flushing or sweeping currents. The third chamber is located at the end of said channel so that when the movable partition displaces the support one end of the piston is moved, so as to vary the pressure prevailing in the third chamber in order to take in a quantity of fuel when the movable partition compresses the spring and force a quantity of fuel toward the injector when the spring is released.

Abstract (fr)

Un piston (20) est déplacé par une paroi mobile (21) qui se meut en fonction de la pression d'air régnant dans le carter de précompression (3) d'un cylindre moteur à deux temps afin d'aspirer une dose parfaitement déterminée de carburant lorsque la pression d'air augmente dans le carter de précompression (3) et de refouler une dose déterminée de carburant vers l'injecteur (9) lorsque la pression d'air diminue dans le carter de précompression. Ce dispositif d'injection est avantageusement intégré au cylindre moteur dans une construction compacte.

IPC 1-7

F02M 69/10; **F02M 59/18**; **F02M 57/02**

IPC 8 full level

F02M 37/12 (2006.01); **F02M 59/10** (2006.01); **F02M 69/10** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP US)

F02M 37/12 (2013.01 - EP US); **F02M 59/107** (2013.01 - EP US); **F02M 69/10** (2013.01 - EP US); **F02B 2075/025** (2013.01 - EP US)

Cited by

US5197418A; FR2691205A1; DE3913586A1; FR2693766A1; US5197417A; FR2619418A1; WO9805860A1

Designated contracting state (EPC)

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