Title (en)

DEVICE FOR VARYING THE DIRECTION IN WHICH FUEL FLOWS INTO AN ENGINE CYLINDER, IN PARTICULAR OF A TWO-STROKE MOTORCYCLE ENGINE

Publication

EP 0400338 A3 19910327 (EN)

Application

EP 90108198 A 19900429

Priority

IT 2068689 A 19890530

Abstract (en)

[origin: EP0400338A2] An engine, in particular a two-stroke motorcycle engine, comprises a cylinder (1) containing a chamber (3) in which a piston (4) moves; a fuel composed of air and the usual oil-gasoline mixture reaches said chamber (3) via feed passages (7). Movable deflector means (8) are arranged in at least one of said passages (7) in proximity to its entry (14) into the chamber (3) to orientate the fuel jet in such a manner as to result in improved scavenging of the chamber (3) during the appropriate phase of the engine cycle, said deflector means (8) varying the geometry of the passage (7) in which they are located as a function of the engine rotational speed and/or the position of the piston (4) within the cylinder chamber (3) or the engine cycle and/or the degree of opening of the accelerator. The movement of said deflector means (8) occurs by the effect of the pressure in the cylinder chamber (3) and in the feed passage (7), and the fuel throughput through said passage (7) or rather the thrust generated by it on said deflector means (8).

IPC 1-7

F02F 1/22; F02B 75/02

IPC 8 full level

F02B 25/14 (2006.01); **F02B 25/20** (2006.01); **F02B 61/02** (2006.01); **F02B 75/16** (2006.01); **F02F 1/22** (2006.01); F02B 75/02 (2006.01)

CPC (source: EP)

F02B 25/14 (2013.01); **F02B 25/20** (2013.01); **F02B 61/02** (2013.01); **F02B 75/16** (2013.01); **F02F 1/22** (2013.01); F02B 2075/025 (2013.01)

Citation (search report)
- [X] DE 719509 C 19420410 - BRENNABOR WERKE AG
- [A] US 4549507 A 19851029 - BAUMHARDT ROBERT J [US]
- [A] DE 849034 C 19520911 - KLOECKNER HUMBOLDT DEUTZ AG
- [A] DE 760778 C 19530914 - FOETTINGER HERMANN DR-ING, et al

Cited by

EP0507648A1; FR2674906A1; US5285753A; EP0578894B1

Designated contracting state (EPC)

DE ES FR GB

DOCDB simple family (publication)

EP 0400338 A2 19901205; **EP 0400338 A3 19910327**; IT 1229378 B 19910808; IT 8920686 A0 19890530

DOCDB simple family (application)

EP 90108198 A 19900429; IT 2068689 A 19890530