

Title (en)
Device for controlling the start of the introduction of pressurized mixture in an internal combustion engine and its application to the two-stroke engine.

Title (de)
Vorrichtung zur Steuerung des Einlassanfangs des unter Druck stehenden Gemisches für eine Brennkraftmaschine und deren Verwendung bei der Zweitaktmaschine.

Title (fr)
Dispositif de contrôle de début d'introduction sous pression du mélange carburé dans un moteur à combustion interne et son application au moteur deux temps.

Publication
EP 0406083 A1 19910102 (FR)

Application
EP 90401792 A 19900625

Priority
FR 8908855 A 19890630

Abstract (en)
[origin: JPH03206352A] PURPOSE: To improve operability by providing a cylinder for introducing a fuel-air mixture under pressure independently of a cylinder for fuel, and by opening or closing an opening which is formed in a cylinder wall with a skirt of its piston and is connected with an intake port of a combustion cylinder. CONSTITUTION: A second cylinder 2 for introducing a fuel-air mixture under pressure into a first cylinder of an internal combustion engine is provided, and an opening 5 provided in a cylinder wall body is opened or closed by a piston skirt 7 having a port 4, of a piston 3 of this second cylinder 2. This opening 5 is provided at a position where it does not open to a combustion chamber 6 even when the piston 3 reaches a lower dead center. One end of a passageway 9 is connected with this opening 5, the other end is connected with an intake port 26 of the first cylinder 1, and the other end of the passageway 9 is provided with a fuel injector 25 and a check valve 28. The upper edge 10 and the lower edge 11 of the port 4, and the opening 5 are provided at a position for setting an injection starting point and an injection finishing point.

Abstract (fr)
La présente invention concerne un dispositif d'introduction sous pression du mélange carburé dans un premier cylindre (1) d'un moteur à combustion interne, ce moteur comportant au moins un autre cylindre (2) ayant un carter-pompe (12), une canalisation de liaison (9) entre ledit carter-pompe (12) et la partie haute du premier cylindre (1), des moyens d'alimentation en carburant (25) de ladite canalisation et des moyens d'obturation (26, 27) de la communication entre ladite canalisation (9) et la chambre de combustion (18) du premier cylindre, un décalage angulaire non nul existant entre les cycles desdits cylindres. Ce dispositif (4, 5) comporte des moyens de commande du début d'injection, lesdits moyens interrompant de manière intermittente et prédéterminée la communication entre ladite canalisation (9) et ledit carter-pompe (12).

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F02B 25/26 (2013.01 - EP US); **F02B 33/04** (2013.01 - EP US); **F02M 69/08** (2013.01 - EP US); **F02M 69/10** (2013.01 - EP US); **F02B 2075/025** (2013.01 - EP US)

Citation (search report)
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EP 0406083 A1 19910102; **EP 0406083 B1 19930901**; AT E93932 T1 19930915; DE 69003035 D1 19931007; DE 69003035 T2 19931216; FR 2649158 A1 19910104; FR 2649158 B1 19940422; JP H03206352 A 19910909; US 5060602 A 19911029

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