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

Publication

EP 0406083 B1 19930901 (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.

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