

Title (en)

DEVICE FOR INTRODUCING FUEL INTO THE COMBUSTION CHAMBER OF AN INTERNAL COMBUSTION ENGINE

Publication

**EP 0412075 B1 19921223 (DE)**

Application

**EP 90890208 A 19900709**

Priority

AT 184789 A 19890731

Abstract (en)

[origin: JPH0370867A] PURPOSE: To provide an injection flow in accordance with an operation condition by providing a variable throttle between a valve seat of an injection valve to inject compression gas with fuel and a gas storage chamber, and controlling it in accordance with load and speed parameters of an internal combustion engine. CONSTITUTION: An injection valve 2 to open/close a valve element 13 to a valve seat 3 by an actuation plunger 14 injects compression gas from a combustion chamber stored in a gas storage chamber 5 with liquid fuel supplied by a measuring and adjusting device 12 into a combustion chamber in an internal combustion engine. A variable throttle 9 is provided between the valve seat 3 of the injection valve 2 and the gas storage chamber, and its opening surface is controlled in accordance with load and rotation speed parameters of the internal combustion engine. For example, layered gas supply is performed by a weak injection flow for partial load, and desired homogeneous gas supply is performed at a high injection rate for full load.

IPC 1-7

**F02D 7/02**; **F02M 67/04**; **F02M 67/12**

IPC 8 full level

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CPC (source: EP US)

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Cited by

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