

Title (en)

DEVICE FOR INJECTING A FUEL/GAS MIXTURE.

Title (de)

VORRICHTUNG ZUR EINSPRITZUNG EINES BRENNSTOFF-GAS-GEMISCHES.

Title (fr)

DISPOSITIF POUR L'INJECTION D'UN MELANGE CARBURANT-GAZ.

Publication

**EP 0473736 B1 19950705 (DE)**

Application

**EP 91904484 A 19910223**

Priority

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- DE 4009320 A 19900323

Abstract (en)

[origin: WO9114865A1] In prior art devices for injecting a fuel/gas mixture, the fuel jet is injected from the injection apertures of the fuel-injection valve into the distribution apertures of the distribution unit as a free jet, so that there is a danger that peripheral fuel mist and parts of the core jet strike the inside walls of the distribution unit. There is no guarantee that the fuel/gas mixture formed will be sufficiently homogeneous. In the new device, the fuel jets are directed from the injection apertures (15) through the fuel channels (17) into the distribution apertures (19). This has the advantage that the fuel is distributed more precisely between the individual distribution apertures (19) and the mixture formed is as homogeneous as possible. The gas passes from a central gas feed aperture (20) through a gas distribution chamber (22) and through gaps (28) to distribution apertures (19) in each of which it surrounds the fuel jet. The device is particularly suitable for internal-combustion engines with external ignition.

IPC 1-7

**F02M 67/00**; **F02M 69/08**; **F02M 69/50**

IPC 8 full level

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CPC (source: EP US)

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