

Title (en)

FUEL/GAS MIXTURE-INJECTION DEVICE.

Title (de)

VORRICHTUNG ZUR EINSPRITZUNG EINES BRENNSTOFF-GAS-GEMISCHES.

Title (fr)

DISPOSITIF D'INJECTION D'UN MELANGE DE CARBURANT ET DE GAZ.

Publication

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Application

**EP 91906604 A 19910404**

Priority

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- DE 4014245 A 19900504

Abstract (en)

[origin: WO9117358A1] With prior art fuel/gas-mixture injection devices, there is a risk that the gas fed in produces an assymetric fuel jet and hence poor mixing. The device disclosed has a fuel-injection valve (1) whose injection end (3) abuts a contact surface (6) of the longitudinal bore (5) in the valve seat (4). Between the injection end (3) and the contact surface (6) is an annular gas channel (15) from which originate at least two gaps (16) with mutually opposite apertures (19) opening out into the fuel/gas-mixture line (12). The symmetrical feed of the gas to the centrally injected fuel jet gives an extremely homogeneous fuel/gas-mixture. The device disclosed is particularly suitable for use in spark-ignition and compression-type internal-combustion engines.

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