Title (en)

DEVICE FOR IMPROVING THE MIXTURE IN INTERNAL COMBUSTION ENGINES

Publication

EP 0376990 B1 19920930 (DE)

Application

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Priority

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Abstract (en)

[origin: WO8912163A1] A device comprises a rotor (4) arranged and rotatably mounted in the inlet manifold. The rotor (4) surrounds a hollow casing (5), on the outer wall of which wings (2, 3) are arranged. A nozzle holder (26) which carries the injection nozzle (9) passes through the end (10) of the casing (5) facing the air flow and is connected at the rear end with the fuel supply pipe. The fuel jets (24, 25) issuing from the injection nozzle (9) are directed against the inner wall (20) of the casing (5). The casing (5) also forms the envelope surface of the core cavity (6) which expands toward the open end (11) of the casing (5). A splash ring (14) with a spraying edge (23) is located at the open end (11). The rotor (4) is set in rotation by the air stream flowing in the direction of the arrows (30, 31) and the fuel spun off by the spraying edge (23) is mixed uniformly with the air. A measuring probe (2) measures the rotational speed of the rotor (4) and controls the fuel supply through a pump to the fuel supply pipe (8) and hence to the injection nozzle (9).

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