

Title (en)

DEVICE FOR SIMULTANEOUS INJECTION OF FUEL AND AIR FOR FUEL INJECTION SYSTEMS OF INTERNAL COMBUSTION ENGINES

Publication

**EP 0410158 B1 19921223 (DE)**

Application

**EP 90112429 A 19900629**

Priority

DE 3924851 A 19890727

Abstract (en)

[origin: EP0410158A1] Such a device has a housing (10) with fuel and air connection (11, 12) and a hollow extended housing connection (14) with an end blow-out opening (18) connected to the fuel and to the air connection (11, 12). On the end of the housing connection (14) a solenoid-operated valve element (35) is arranged, which is pressed by a valve closing spring (32) on to a valve seat (34). For more efficient processing in the device, the valve seat (34) is arranged on a coaxial inner pipe (19) running through the housing connection (14), which inner pipe extends into the blow-out opening (18). The outside diameter of the inner pipe (19) is less than the inside diameter of the housing connection (14). The internal chamber of the inner pipe (19) is connected to the fuel connection (11) and the annular chamber (21) enclosed by the inner pipe (19) and housing connection (14) is connected to the air connection (12). <IMAGE>

IPC 1-7

**F02M 51/08; F02M 61/08; F02M 67/12; F02M 69/08**

IPC 8 full level

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CPC (source: EP US)

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