

Title (en)

FUEL INJECTION UNIT FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

KRAFTSTOFFEINSPRITZVORRICHTUNG FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)

DISPOSITIF D'INJECTION DE CARBURANT DESTINE A UN MOTEUR A COMBUSTION INTERNE

Publication

EP 0770175 B1 20000322 (DE)

Application

EP 95942026 A 19951220

Priority

- DE 9501826 W 19951220
- DE 4446242 A 19941223

Abstract (en)

[origin: DE4446242A1] The invention concerns a fuel injection unit for an internal combustion engine. The unit comprises an injection valve (10), a fuel vaporiser (16) into the intake aperture of which fuel can be injected by the inlet valve (10) and from the outlet aperture (19) of which a fuel jet issues; and an air supply unit (25) which supplies air to the fuel vaporiser (16) for mixing with the fuel jet. In order to improve the fuel discharge from the fuel vaporiser (16), it is proposed that the air supply unit (25) should be provided with an air expulsion unit (24, 24') in the vicinity of the outlet aperture (19) of the fuel vaporiser (16) through which the air to be added is introduced into the fuel jet issuing from the fuel vaporiser (16).

IPC 1-7

F02M 53/06; **F02M 69/04**

IPC 8 full level

F02M 53/06 (2006.01); **F02M 69/04** (2006.01)

CPC (source: EP KR US)

F02M 43/00 (2013.01 - KR); **F02M 53/06** (2013.01 - EP US); **F02M 69/047** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

DE 4446242 A1 19960627; CN 1070263 C 20010829; CN 1138888 A 19961225; DE 59508068 D1 20000427; EP 0770175 A1 19970502; EP 0770175 B1 20000322; JP H09509719 A 19970930; KR 970701307 A 19970317; US 5694906 A 19971209; WO 9620342 A1 19960704

DOCDB simple family (application)

DE 4446242 A 19941223; CN 95191273 A 19951220; DE 59508068 T 19951220; DE 9501826 W 19951220; EP 95942026 A 19951220; JP 52011996 A 19951220; KR 19960704331 A 19960809; US 69327196 A 19960816