

Title (en)

Arrangement for introducing fuel into the combustion chamber of an internal combustion engine

Title (de)

Einrichtung zum Einbringen von Kraftstoff in den Brennraum einer Brennkraftmaschine

Title (fr)

Dispositif pour introduire du combustible dans la chambre de combustion d'un moteur à combustion interne

Publication

EP 0731271 A3 19961030 (DE)

Application

EP 96890011 A 19960123

Priority

AT 35395 A 19950227

Abstract (en)

[origin: EP0731271A2] The fuel injection device has an injection valve (1) with a mixing space (14) for receiving compressed gas from the engine cylinder (3), before injecting the gas mixed with the supplied fuel to the cylinder. The gas exchange between the cylinder and the mixing space is controlled via a piston valve (5), with closure of the latter in dependence on the detected temp. and/or pressure within the mixing space, provided by a sensor element (19,20).

IPC 1-7

F02M 67/04

IPC 8 full level

F02D 7/02 (2006.01); **F02M 47/04** (2006.01); **F02M 67/04** (2006.01)

CPC (source: EP US)

F02D 7/02 (2013.01 - EP US); **F02M 47/046** (2013.01 - EP US); **F02M 67/04** (2013.01 - EP US)

Citation (search report)

- [A] WO 9425742 A1 19941110 - ORBITAL ENG PTY [AU], et al
- [A] US 4944277 A 19900731 - OLSON JEFFREY A [US]
- [AD] WO 8901568 A1 19890223 - AVL VERBRENNUNGSKRAFT MESSTECH [AT]

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

EP 0731271 A2 19960911; **EP 0731271 A3 19961030**; **EP 0731271 B1 19980325**; AT 408137 B 20010925; AT A35395 A 20010115; DE 59600120 D1 19980430; US 5647336 A 19970715

DOCDB simple family (application)

EP 96890011 A 19960123; AT 35395 A 19950227; DE 59600120 T 19960123; US 60691796 A 19960226