

Title (en)

Apparatus for connecting a gas distribution device to gas sleeves of fuel injection systems for internal combustion engines

Title (de)

Einrichtung zur Verbindung einer Gasverteilereinrichtung mit Gasumfassungskörpern von Einspritzvorrichtungen für Brennstoffeinspritzanlagen

Title (fr)

Appareil de raccordement d'un dispositif de répartition du gaz à des manchons de gaz des systèmes d'injection de carburant pour moteurs à combustion interne

Publication

EP 0727015 B1 20000830 (DE)

Application

EP 95919331 A 19950526

Priority

- DE 9500694 W 19950526
- DE 4431044 A 19940901

Abstract (en)

[origin: DE4431044A1] The novel gas distribution device (1) has a common gas supply line (70) with an internal supply aperture (71), designed to supply gas to several devices (2) arranged, for example, in series, forming a basic body and a number of connectors (7) corresponding to the number of fuel-gas mixture injection devices (2) which extend perpendicularly outwards from the gas supply line (70) and contain branch apertures (73) directly connected to the supply aperture (71). A fixed connection between the gas distribution device (1) and the devices (2) is provided in that on the gas containing bodies (3) at least partially surrounding the devices (2) there are gas inlet channels (13) having functional components (52) projecting into the connectors (7) of the gas distribution device (1). The gas is provided in the supply aperture (71) for all the devices (2) at the same time and then flows via a connector (7) to a device (2). The gas distribution device (1) thus takes the form of a very compact unit which can be fitted and removed very easily. The gas distribution device of the invention is particularly suitable for fuel injection systems of mixture-compressing spark-ignition internal combustion engines.

IPC 1-7

F02M 69/08; **F02M 69/46**; **F02M 67/00**; **F02M 51/00**

IPC 8 full level

F02M 51/02 (2006.01); **F02M 51/00** (2006.01); **F02M 51/08** (2006.01); **F02M 67/00** (2006.01); **F02M 69/00** (2006.01); **F02M 69/08** (2006.01); **F02M 69/46** (2006.01)

CPC (source: EP KR US)

F02M 51/005 (2013.01 - EP US); **F02M 67/00** (2013.01 - EP US); **F02M 69/08** (2013.01 - EP KR US); **F02M 69/46** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

DE 4431044 A1 19960307; BR 9506351 A 19970902; CN 1065591 C 20010509; CN 1135251 A 19961106; DE 59508682 D1 20001005; EP 0727015 A1 19960821; EP 0727015 B1 20000830; ES 2151063 T3 20001216; JP H09504852 A 19970513; KR 100374096 B1 20030512; KR 960706024 A 19961108; US 6626159 B1 20030930; WO 9607026 A1 19960307

DOCDB simple family (application)

DE 4431044 A 19940901; BR 9506351 A 19950526; CN 95190849 A 19950526; DE 59508682 T 19950526; DE 9500694 W 19950526; EP 95919331 A 19950526; ES 95919331 T 19950526; JP 50839096 A 19950526; KR 19960702243 A 19960430; US 63765696 A 19960719