

Title (en)

Apparatus for dispensing and injecting fuel to cylinders in endothermic engines.

Title (de)

Vorrichtung zum Verteilen und zum Einspritzen von Kraftstoff in die Zylinder eines Verbrennungsmotors.

Title (fr)

Dispositif de distribution et d'injection de combustible aux cylindres d'un moteur à combustion interne.

Publication

**EP 0536091 A1 19930407 (EN)**

Application

**EP 92830511 A 19920922**

Priority

- IT MI912590 A 19910930
- IT MI912591 A 19910930

Abstract (en)

The described apparatus comprises a dispensing manifold (2) having a main body (3) longitudinally travelled along by a primary tube (4) connected at the ends thereof to an inlet tailpiece (7) and an outlet tailpiece (8) which are in turn connected with a fuel delivery pipe and recirculation pipe, respectively. The primary tube (4) is defined within a tubular core (18) integrally incorporated in a skirt (19) die-cast around the tubular core itself, together with the inlet and outlet tailpieces (7, 8). The main body (3) of the manifold is crossed by substantially cylindrical interconnecting openings (26) each connected to a fuel injector (13) and penetrating the tubular core (18) for connection with the primary tube (4) through outflow ports (27).  
<IMAGE>

IPC 1-7

**F02M 69/46**

IPC 8 full level

**F02M 69/46** (2006.01); **F02M 69/54** (2006.01)

CPC (source: EP)

**F02M 69/465** (2013.01); **F02M 69/54** (2013.01)

Citation (search report)

- [X] US 4836246 A 19890606 - LEMP MARK D [US]
- [Y] EP 0132418 A1 19850130 - BRUYN GERARD DE [FR]
- [Y] WO 9013741 A1 19901115 - BOSCH GMBH ROBERT [DE]
- [Y] GB 2024937 A 19800116 - BOSCH GMBH ROBERT
- [Y] US 4964381 A 19901023 - SHIOZAKI TOMOO [JP], et al

Cited by

FR2701295A1; EP0745767A3; EP0661443A1; EP0799989A1; JP2023507217A; WO2021121826A1

Designated contracting state (EPC)

AT BE DE DK ES FR GB IE IT NL PT SE

DOCDB simple family (publication)

**EP 0536091 A1 19930407**

DOCDB simple family (application)

**EP 92830511 A 19920922**