

Title (en)  
FUEL INJECTION NOZZLE FOR INTERNAL COMBUSTION ENGINES

Publication  
**EP 0314666 A3 19900228 (DE)**

Application  
**EP 88890264 A 19881021**

Priority  
DE 3736198 A 19871026

Abstract (en)  
[origin: JPH01147155A] PURPOSE: To electrical automatically connect a cable leading to a central processor while inserting an injector by forming a through aperture which has a plug connecting portion in a flange of a jet housing. CONSTITUTION: In a flange 3 of a jet housing 2 for fixing a jet in the cylinder head, a through aperture 8 which is essentially parallel to the jet axle and through which the ends of connector leads 10, 11 pass. And, an oval cylindrical plug element 14 is inserted to the through aperture 8 from above. A mutual connector 15 is arranged in the plug 14, and ends of the electrical connector leads 10, 11 are electrically connected to the lower end of the mutual connector 15. The top of the plug element 14 is leaded to a valve cover 20 and further is connected to a connecting cable 25 through connecting plug 23. By this manner, the maintenance becomes easier even in a bad circumstance condition and a reliable connection can be ensured.

IPC 1-7  
**F02M 51/00**

IPC 8 full level  
**F02F 7/00** (2006.01); **F02M 51/00** (2006.01); **F02M 55/02** (2006.01); **F02M 65/00** (2006.01)

CPC (source: EP US)  
**F02F 7/006** (2013.01 - EP US); **F02M 51/005** (2013.01 - EP US); **F02M 65/005** (2013.01 - EP US); **F02M 2200/24** (2013.01 - EP US)

Citation (search report)  
• [A] EP 0099991 A1 19840208 - BOSCH GMBH ROBERT [DE]  
• [A] GB 2056557 A 19810318 - BOSCH GMBH ROBERT  
• [A] DE 3241390 A1 19830519 - NIPPON DENSO CO [JP]  
• [A] CH 496336 A 19700915 - LANDIS & GYR AG [CH]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 146 (M-307)(1583) 07 Juli 1984, & JP-A-59 43958 (NIPPON DENSO) 12 März 1984,

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Designated contracting state (EPC)  
AT CH DE ES FR GB IT LI SE

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**EP 0314666 A2 19890503**; **EP 0314666 A3 19900228**; DE 3736198 A1 19890518; DE 3736198 C2 19910926; JP H01147155 A 19890608; US 4922880 A 19900508

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