

Title (en)

A fuel manifold preferably of plastics material adapted to supply fuel to the injectors of an internal combustion engine fuel injection device.

Title (de)

Brennstoffsammelleitung, vorzugsweise aus Kunststoff, zur Brennstoffversorgung der Injektoren eines Brennstoffeinspritzsystems eines Verbrennungsmotors.

Title (fr)

Tubulure de combustible, de préférence en matériau plastique, pour l'alimentation en combustible des injecteurs d'un système d'injection de combustible d'un moteur à combustion interne.

Publication

EP 0403871 A1 19901227 (EN)

Application

EP 90110595 A 19900605

Priority

IT 6747789 A 19890613

Abstract (en)

The manifold is formed by a first tubular element (5) adapted to define the casing of the manifold which is provided with a fuel inlet connector (7) and a fuel outlet connector (8) and an attachment flange (9) for a pressure regulator (1) adapted to maintain substantially constant the pressure within the interior of the manifold; the manifold further includes a second tubular element (12) disposed within the interior of the first, one end (13) of which is adapted to be connected to a discharge connector (4) from the pressure regulator and a second end (14) of which is adapted to be connected to the outlet connector (8) of the first tubular element; the first and the second tubular element define an annular duct (15) lying between the outer surface of the second and the inner surface of the first element and adapted to supply fuel to the seats of the fuel injectors which are formed on the first element, whilst the second tubular element defines within its interior a discharge duct (18) for fuel from the pressure regulator.

IPC 1-7

F02M 55/02

IPC 8 full level

F02M 69/46 (2006.01)

CPC (source: EP)

F02M 69/465 (2013.01)

Citation (search report)

- [A] US 4836246 A 19890606 - LEMP MARK D [US]
- [A] EP 0233697 A1 19870826 - GEN MOTORS CORP [US]
- [AP] PATENT ABSTRACTS OF JAPAN vol. 14, no. 29 (M-922)(3972) 19 January 1990, & JP-A-1 267354 (SUZUKI MOTOR CO) 25 October 1989,
- [A] RESEARCH DISCLOSURE. no. 276, April 1987, NEW YORK,USA, page 195, Eshleman: "27623: Coaxial tube fuel rail."

Cited by

DE19927467A1; DE102010048161A1; EP0625637A1; GB2248273A; GB2248273B; EP0508074A1; DE4111988A1; US5233963A; US2012298076A1; US9151261B2; GB2395538A; GB2395538B; EP1424493A1; US5297524A; GB2395537A; GB2395537B; EP0575752A1; US5333587A; DE4115039A1; GB2248274A; DE4131967A1; GB2248274B; DE4131967C2; WO9301408A1

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