

Title (en)

Electromagnetically actuated fuel injector.

Title (de)

Elektromagnetisch betätigbares Kraftstoffeinspritzventil.

Title (fr)

Injecteur de combustible à commande électromagnétique.

Publication

EP 0188702 A1 19860730 (DE)

Application

EP 85115127 A 19851128

Priority

DE 3502087 A 19850123

Abstract (en)

1. Electromagnetically operable fuel injection valve for injection systems of internal-combustion engines, with a valve housing (1), a plug (4), which is arranged in a valve bore and has a conical circumferential-surface section (15) as metering element, a soft-iron core (11), which is arranged within the valve housing (1) and bears a fixed magnet winding, and an armature, which is coaxial with the latter and opposite it, forming an air gap, and is firmly connected to a control element, controlling the through-flow, the plug (4) being held by an holding member (3), which is arranged in the valve bore, is independent of the closing element and is in contact via a spacer ring (6) with a stop (7) on the outlet side, characterized in that the holding member (3), which forms a unit with the plug (4), is arranged axially displaceably in the valve bore (2) and the plug (4), with the circumferential-surface section (15) widening conically in flow direction, determines with the outlet opening (14) the metering crosssection, in that the stop (7) is arranged detachably on the valve housing (1) and in that the axial position of the holding member (3) can be fixed by the thickness of the spacer ring (6), the spacer ring being interchangeable for other spacer rings of different thickness but the same diameter of the outlet opening (14).

Abstract (de)

Bei einem Kraftstoffeinspritzventil ist in einer Ventilbohrung (2) ein axial verstellbarer Haltekörper (3) eingesetzt, der einen Zapfen (4) mit einer konischen Mantelfläche (15) als Zerstäubungs- und Zumeßelement trägt. Ein auswechselbarer Distanzring (6) ermöglicht es, durch Austausch dieses Distanzringes (6) die Lage des Zapfens (4) innerhalb der Austrittsöffnung (14) axial zu verändern und damit die genaue Durchflußmenge des Kraftstoffeinspritzventils einzustellen.

IPC 1-7

F02M 51/08; **F02M 61/18**

IPC 8 full level

F02M 51/06 (2006.01); **F02M 51/08** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)

F02M 51/0639 (2013.01); **F02M 51/08** (2019.01); **F02M 61/06** (2013.01); **F02M 61/18** (2013.01)

Citation (search report)

- [X] DE 3023757 A1 19820121 - BOSCH GMBH ROBERT [DE]
- [A] DE 3308430 A1 19830915 - AISAN IND [JP]
- [A] US 2756107 A 19560724 - KORDA EUGENE J

Cited by

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