

Title (en)

Metering device and method for setting a spring preload

Title (de)

Dosiervorrichtung und Verfahren zur Einstellung der Federvorspannung

Title (fr)

Dispositif de dosage et procédé de réglage de la précontrainte d'un ressort

Publication

**EP 1450036 A1 20040825 (EN)**

Application

**EP 03003849 A 20030220**

Priority

EP 03003849 A 20030220

Abstract (en)

The invention relates to a metering device for dosing pressurized fluids, particularly an injection valve (10) for a fuel injection system in an internal combustion engine, comprising a housing (12) having an end part provided with an outlet passage (14) terminating with a metering opening, an axially moveable valve needle (16) passing through the outlet passage (14), and controlling opening and closing of the metering opening, the valve needle (16) having a lower portion inside the outlet passage (14), with a lower end controlling the opening and closing of the metering opening, and having an upper portion with an upper end (18) cooperating with an actuator assembly to displace the valve needle (16) from the closing position, and spring means (20) for urging the valve needle (16) in the closing position. A blocking means (24,28; 32; 48) is arranged at and secured to the upper portion of the valve needle (16) to block the spring means (20) in a working position, thereby providing a predetermined spring preload.

<IMAGE>

IPC 1-7

**F02M 61/20**; F02M 61/16; F16K 31/00

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

EP 1046809 A2 20001025 - SIEMENS AG [DE]

Citation (search report)

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DE FR GB IT

DOCDB simple family (publication)

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