

Title (en)
Metering device

Title (de)
Dosiergerät

Title (fr)
Doseur

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Application
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Abstract (en)
The invention relates to a metering device for dosing pressurized fluids, particularly an injection valve for a fuel injection system in an internal combustion engine, comprising an axially extending housing (12) having an end part provided with an outlet passage (20) terminating with a metering opening (22) and a fluid inlet (16; 161) for supplying the fluid under pressure, arranged at the end part of the housing (12) opposite to the end part provided with the outlet passage (20), an axially moveable valve needle (24) passing through the outlet passage (20) and controlling opening and closing of the metering opening (22) by its axial movement, a piezoelectric actuator assembly (30) in axial alignment with the valve needle (24) and cooperating with the valve needle (24) to control its axial movement, and a fluid supply duct (14) communicating with the fluid inlet (16; 161) and the outlet passage (20) for transmitting the pressurized fluid to be dosed to the outlet passage (20). According to the invention the fluid supply duct forms an axially extended annular supply duct (14) within the housing (12). <IMAGE>

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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)
• [XY] US 6302333 B1 20011016 - HOFFMANN KARL-HEINZ [DE], et al
• [Y] WO 0106115 A1 20010125 - BOSCH GMBH ROBERT [DE], et al
• [DA] EP 1046809 A2 20001025 - SIEMENS AG [DE]

Cited by
JP2013539838A; EP1734253A1; EP1724464A1; WO2012048999A3

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