

Title (en)
FLUID DOSING DEVICE

Title (de)
ZUMESSVORRICHTUNG FÜR FLUIDE

Title (fr)
DISPOSITIF DE DOSAGE DE FLUIDES

Publication
EP 0686235 A1 19951213 (DE)

Application
EP 94908270 A 19940228

Priority
• DE 9400212 W 19940228
• DE 4306073 A 19930226

Abstract (en)
[origin: DE4306073C1] The metering system has a chamber (KA1) formed by the large dia. piston (DK) and the cylinder bore. A second chamber (KA2) is formed by a bore in the large dia. piston (DK) and the small dia. piston (HK) movable in the bore of the large dia. piston. The first and the second chambers (KA1, KA2) are filled with hydraulic fluid standing under pressure. A pressure storage (SP) is provided for suppressing the cavitation effects. The actuator (P) can be a piezoelectric, magneto- or electrostrictive powered unit. ADVANTAGE - Exact dosing of smallest fuel amounts for suction air. Facilitates extremely short opening and closing times of 0.1 to 0.2 ms, valve needle is not affected by temp. fluctuations.

IPC 1-7
F02M 51/06; **F16K 31/00**

IPC 8 full level
F02M 51/06 (2006.01); **F02M 69/52** (2006.01); **F16K 31/00** (2006.01); **G01F 13/00** (2006.01)

CPC (source: EP)
F02M 51/0603 (2013.01); **F16K 31/007** (2013.01); **G01F 13/006** (2013.01); **F02M 2200/703** (2013.01)

Citation (search report)
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