

Title (en)
FLUID METERING DEVICE

Title (de)
FLUIDMESSVORRICHTUNG

Title (fr)
DISPOSITIF DE MESURE FLUIDIQUE

Publication
EP 0963543 A1 19991215 (EN)

Application
EP 98904304 A 19980217

Priority
• GB 9800491 W 19980217
• GB 9703918 A 19970225

Abstract (en)
[origin: WO9838480A1] A metering device for pressurized fluid has a rotor containing an oscillating free piston operating a bore at right angles to the rotor axis. The piston is driven by the fluid to be metered. The rotor is retained within a stator having inlet and outlets ports. When the rotor is rotated, a first end of the bore becomes in fluid connection with the inlet port and the piston is operated upon by the pressurized fluid and moves within the bore in a first direction towards the outlet port. As the rotor is turned further, the second end of the bore becomes in fluid connection with the inlet port whilst the first end is made in fluid connection with the outlet port, and the piston reverses to move in a second direction, i.e., towards the outlet port to discharge the fluid which had previously moved the piston in a first direction. The rotor may be turned back and forth to dispense metered doses of the fluid, or may be rotated continuously or intermittently in the same direction to dispense metered doses of the fluid.

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G01F 11/22

IPC 8 full level
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