

Title (en)

Apparatus for filling fixed amount of liquid into containers.

Title (de)

Vorrichtung zum Einfüllen einer bestimmten Flüssigkeitsmenge in Behälter.

Title (fr)

Dispositif pour verser une quantité déterminée de liquide dans des récipients.

Publication

EP 0138234 A1 19850424 (EN)

Application

EP 84200100 A 19840126

Priority

JP 15219983 A 19830819

Abstract (en)

A filling apparatus comprising a machine main body (1) and a high-viscosity liquid nozzle (2), the machine main body comprising a liquid tank (4), a filling cylinder (6) having an upper end portion (10) extending upward through the bottom wall (5) of the tank and communicating with the tank, and a metering cylinder (7) communicating with an intermediate portion of the filling cylinder, the filling cylinder being formed at the projecting portion with a high-viscosity liquid inlet (13) open to the interior of the tank and having fitted therein a piston (16) for opening or closing the inlet. The high-viscosity liquid nozzle (2) includes a tubular nozzle main body (49) attached at its upper end to the lower end of the filling cylinder, a damper (50) pivoted to the lower end of the nozzle main body, a damper opening rod (51) vertically movably supported by the nozzle main body, and a spring (52) for biasing the damper opening rod upward. The damper opening rod has a lower end connected to the damper and an upper end projecting into a space in which the piston (16) moves down so that the damper opening rod (51) is depressed by the downward movement of the piston by a distance to open the damper.

IPC 1-7

B67C 3/20; B65B 3/12

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CPC (source: EP)

B65B 39/002 (2013.01); **B65B 2039/008** (2013.01)

Citation (search report)

- GB 1207015 A 19700930 - CHELLE ETS [FR]
- DE 2321205 B2 19760429

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US4958669A; EP0303331A1; US4982770A; US4995431A; EP0402535A1; US5016687A

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