

Title (en)

Filling head for counter pressure filling and free jet filling

Title (de)

Füllelement sowie Füllmaschine mit derartigen Füllelementen

Title (fr)

Tête de remplissage pour remplissage sous contre pression et remplissage à jet libre

Publication

**EP 1580160 A1 20050928 (DE)**

Application

**EP 05003380 A 20050217**

Priority

DE 102004015167 A 20040327

Abstract (en)

Filling element (1) for filling bottles (3), etc. with a liquid filling material comprises a liquid channel (9) in a housing (8) of the filling element that is connected to a reservoir or vessel (4) for the filling material and forms a dispensing opening (12) for the filling material, a first liquid valve (13) arranged between the inlet and the dispensing opening in the liquid channel, an actuating device (17) for controlled opening and closing of the first liquid valve, a tube (15) provided with a first open end in the region of the dispensing opening, channels (22-24) formed in the housing, and control valves (18-21). The control valve (21) serves as an additional liquid valve and connects the second end of the tube for free-jet filling of the bottle, arranged with its opening a distance from the filling element, to the reservoir or vessel. An independent claim is also included for a filling machine for filling bottles, etc. with a liquid filling material.

Abstract (de)

Ein Füllelement mit einem im Bereich einer Abgabeöffnung für ein flüssiges Füllgut offenen Rohr kann wahlweise für ein Kurzrohrfüllen, bei dem das Rohr als Rückgasrohr dient, oder für ein Freistrahlfüllen verwendet werden, bei dem das Rohr als kurzes Füllrohr dient.

IPC 1-7

**B67C 3/06**; **B67C 3/28**; **B67C 3/26**

IPC 8 full level

**B67C 3/22** (2006.01); **B67C 3/04** (2006.01); **B67C 3/06** (2006.01); **B67C 3/26** (2006.01); **B67C 3/28** (2006.01)

CPC (source: EP US)

**B67C 3/06** (2013.01 - EP US); **B67C 3/2614** (2013.01 - EP US); **B67C 3/28** (2013.01 - EP US)

Citation (search report)

[A] DE 4324592 C1 19950112 - KRONSEDER MASCHF KRONES [DE]

Cited by

CN103030089A; CN105000519A; CN105668484A; EP2871150A1; CN104627926A; CN101817493A; CN103043590A; CN102320541A; CN104627925A; US9695028B2; US8776842B2; WO2008138472A1; WO2010000431A1; EP2307304B1

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DOCDB simple family (publication)

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DOCDB simple family (application)

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