

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 B1 20090909 (DE)

Application

EP 05003380 A 20050217

Priority

DE 102004015167 A 20040327

Abstract (en)

[origin: EP1580160A1] 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.

IPC 8 full level

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

Cited by

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

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DOCDB simple family (application)

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