

Title (en)

FILLING ELEMENT AND FILLING MACHINE COMPRISING SAID TYPE OF FILLING ELEMENTS

Title (de)

FÜLLELEMENT SOWIE FÜLLMASCHINE MIT DERARTIGEN FÜLLELEMENTEN

Title (fr)

ÉLÉMENT DE REMPLISSAGE ET MACHINE DE REMPLISSAGE ÉQUIPÉE D'ÉLÉMENTS DE REMPLISSAGE DE CE TYPE

Publication

EP 2285727 A1 20110223 (DE)

Application

EP 09741810 A 20090423

Priority

- EP 2009002945 W 20090423
- DE 102008022398 A 20080506

Abstract (en)

[origin: WO2009135591A1] The invention relates to a filling element for filling with a product that has solid or more solid components (4) in a liquid phase. Said element comprises at least one liquid channel or product area (9, 34, 34d, 47, 56) embodied in a housing (8, 33, 33d, 45, 55), said chamber or area can be connected to a reservoir (2, 32) for the product (3) and comprises a discharge opening (7, 35, 48, 57) for discharging the product (3) into a bottle that is to be filled or similar recipient (5). Said element also comprises at least one valve element (13, 13a, 13b, 36, 36d, 54, 59) that can be moved between at least two operational states for opening and closing the filling element (1, 1a - 1f) or a liquid valve (15, 15a, 15b, 38, 38d, 51, 62) formed by the valve element. Said filling element is characterised by means for keeping the valve seat (14, 37, 37d, 50, 61) free from solid components (4) contained in the product (3), when the liquid valve (15, 15a, 15b, 34, 34d, 51, 62) is in the closed state, said means moving together with the valve element (13, 13a, 13b, 36, 36d, 54, 59).

IPC 8 full level

B67C 3/26 (2006.01)

CPC (source: EP)

B67C 3/26 (2013.01)

Citation (search report)

See references of WO 2009135591A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2009135591 A1 20091112; DE 102008022398 A1 20091231; EP 2285727 A1 20110223

DOCDB simple family (application)

EP 2009002945 W 20090423; DE 102008022398 A 20080506; EP 09741810 A 20090423