

Title (en)

FILLING ELEMENT FOR A FILLING MACHINE AND FILLING MACHINE PROVIDED WITH FILLING ELEMENTS OF THIS TYPE

Title (de)

FÜLLELEMENT FÜR EINE FÜLLMASCHINE SOWIE FÜLLMASCHINE MIT DERARTIGEN FÜLLELEMENTEN

Title (fr)

ELEMENT DE REMPLISSAGE POUR MACHINE DE REMPLISSAGE ET MACHINE DE REMPLISSAGE EQUIPEE D'ELEMENTS DE REMPLISSAGE DE CE TYPE

Publication

EP 1692071 B1 20080820 (DE)

Application

EP 04820064 A 20041210

Priority

- EP 2004014088 W 20041210
- DE 10359492 A 20031213

Abstract (en)

[origin: WO2005056464A1] The invention relates to a filling element (1) for a filling machine for filling a product, for example, a beverage under counterpressure in bottles, cans or similar receptacles (7), comprising: a liquid channel (13), which has a controllable liquid valve (14) and which terminates in a product discharge opening (10); at least one first controlled gas passage (20), via which the interior of the receptacle respectively placed on the filling element can, for evacuating, be connected to a vacuum channel (5) of the filling machine and into which a controlled pressure release of the receptacle ensues after the receptacle has been filled under counterpressure. The invention provides that, for releasing pressure, a second controlled gas passage (23) is provided, which connects the interior of the receptacle to the vacuum channel (21) and which has at least one element (24, 29) that reduces and/or controls the flow inside this gas passage.

IPC 8 full level

B67C 3/12 (2006.01)

CPC (source: EP US)

B67C 3/12 (2013.01 - EP US); **B67C 3/2628** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

WO 2005056464 A1 20050623; BR PI0410608 A 20060919; BR PI0410608 B1 20161129; CN 100546901 C 20091007; CN 1886330 A 20061227; DE 10359492 B3 20050915; DE 502004007921 D1 20081002; EP 1692071 A1 20060823; EP 1692071 B1 20080820; RU 2313483 C1 20071227; US 2007006939 A1 20070111; US 7647950 B2 20100119

DOCDB simple family (application)

EP 2004014088 W 20041210; BR PI0410608 A 20041210; CN 200480035515 A 20041210; DE 10359492 A 20031213; DE 502004007921 T 20041210; EP 04820064 A 20041210; RU 2006116268 A 20041210; US 45112706 A 20060612