

Title (en)

FILLING ELEMENT COMPRISING A FLOWMETER

Title (de)

FÜLLELEMENT MIT DURCHFLUSSMENGENMESSER

Title (fr)

ÉLÉMENT DE REMPLISSAGE COMPRENANT UN DÉBITMÈTRE

Publication

EP 2001789 A1 20081217 (DE)

Application

EP 07723525 A 20070323

Priority

- EP 2007002574 W 20070323
- DE 102006014103 A 20060324

Abstract (en)

[origin: DE102006014103A1] Filling element (1) for filling bottles (2) or similar containers with a filling material comprises a liquid channel having a section (7.2) forming a measuring channel between a liquid valve (9) and a delivery opening (8). An independent claim is also included for a rotating filling machine comprising several filling elements on a rotor rotating about a machine axis.

IPC 8 full level

B67C 3/20 (2006.01); **B65B 3/36** (2006.01)

CPC (source: BR EP US)

B65B 3/30 (2013.01 - BR); **B65B 3/36** (2013.01 - BR); **B65B 39/004** (2013.01 - BR EP US); **B67C 3/20** (2013.01 - EP US); **B67C 3/26** (2013.01 - EP US); **B67C 3/20** (2013.01 - BR); **B67C 3/26** (2013.01 - BR)

Citation (search report)

See references of WO 2007110197A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102006014103 A1 20070927; **DE 102006014103 B4 20080424**; BR PI0709343 A2 20110712; BR PI0709343 B1 20181030; CN 101454237 A 20090610; CN 101454237 B 20110427; EP 2001789 A1 20081217; EP 2001789 B1 20160907; JP 2009530197 A 20090827; JP 5059846 B2 20121031; MX 2008012068 A 20081007; SI 2001789 T1 20161028; US 2009071569 A1 20090319; US 8256474 B2 20120904; WO 2007110197 A1 20071004

DOCDB simple family (application)

DE 102006014103 A 20060324; BR PI0709343 A 20070323; CN 200780018857 A 20070323; EP 07723525 A 20070323; EP 2007002574 W 20070323; JP 2009500781 A 20070323; MX 2008012068 A 20070323; SI 200731827 A 20070323; US 23513308 A 20080922