

Title (en)

APPARATUS AND METHOD FOR FILLING PRODUCTS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BEFÜLLUNG VON PRODUKTEN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR LE REMPLISSAGE DE PRODUITS

Publication

EP 2580127 A2 20130417 (DE)

Application

EP 11754823 A 20110505

Priority

- DE 102010023831 A 20100610
- DE 2011001055 W 20110505

Abstract (en)

[origin: WO2011153983A2] The invention relates to a method and device used to fill a container with a product. The product consists of a first liquid component and at least one second component. The product is supplied to the container to be filled via at least one filling line and at least one filling valve. The filling line is sub-divided into line sections between the receiving container and the filling valve by at least one throttle valve. The line section between the filling valve and a throttle valve arranged adjacent to the filling valve is dimensioned such that the interior volume of said part of the filling line substantially corresponds to a filling volume of a container to be filled.

IPC 8 full level

B65B 3/30 (2006.01); **B65B 3/32** (2006.01); **B65B 37/20** (2006.01); **B65B 39/00** (2006.01)

CPC (source: EP KR US)

B65B 3/003 (2013.01 - US); **B65B 3/30** (2013.01 - EP KR US); **B65B 3/32** (2013.01 - KR); **B65B 37/20** (2013.01 - EP KR US);
B65B 39/00 (2013.01 - KR); **B65B 39/001** (2013.01 - EP US); **B65B 3/326** (2013.01 - EP US)

Citation (search report)

See references of WO 2011153983A2

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2011153983 A2 20111215; WO 2011153983 A3 20120301; AU 2011264180 A1 20130131; AU 2011264180 B2 20160211;
BR 112012031511 A2 20161108; BR 112012031511 B1 20200211; CA 2800034 A1 20111215; CA 2800034 C 20171212;
CN 103003154 A 20130327; CN 103003154 B 20160203; DE 102010023831 A1 20111215; EA 022260 B1 20151130;
EA 201291287 A1 20130430; EG 27153 A 20150812; EP 2580127 A2 20130417; EP 2580127 B1 20140514; ES 2490490 T3 20140903;
JP 2013528143 A 20130708; JP 5891223 B2 20160322; KR 101682745 B1 20161212; KR 20130082446 A 20130719;
MX 2012014038 A 20130215; PL 2580127 T3 20141231; TN 2012000546 A1 20140401; TW 201200420 A 20120101; TW I548568 B 20160911;
US 2013118637 A1 20130516; ZA 201208713 B 20140129

DOCDB simple family (application)

DE 2011001055 W 20110505; AU 2011264180 A 20110505; BR 112012031511 A 20110505; CA 2800034 A 20110505;
CN 201180028106 A 20110505; DE 102010023831 A 20100610; EA 201291287 A 20110505; EG 2012111911 A 20121118;
EP 11754823 A 20110505; ES 11754823 T 20110505; JP 2013513552 A 20110505; KR 20127030430 A 20110505; MX 2012014038 A 20110505;
PL 11754823 T 20110505; TN 2012000546 A 20121121; TW 100117286 A 20110517; US 201113703249 A 20110505;
ZA 201208713 A 20121120