

Title (en)

Method of filling a container with at least two liquid or pasty products and filling device for carrying out said method

Title (de)

Verfahren zum Befüllen eines Behälters mit zumindest zwei flüssigen oder pastösen Produkten und Füllvorrichtung zur Durchführung des Verfahrens

Title (fr)

Procédé de remplissage d'un récipient avec au moins deux produits liquides ou pâteux et dispositif de remplissage pour réaliser un tel procédé

Publication

EP 1657159 A1 20060517 (DE)

Application

EP 05023931 A 20051103

Priority

DE 102004055327 A 20041116

Abstract (en)

The filling device for the filling of a container (B) with at least two liquid or paste products (P1,P2) has the first product delivered under pressure from a first chamber (20) through several first nozzles (30) and the second product from a second chamber (25) through at least one second nozzle (31). The first nozzle has a controllable shut-off device (22) by which each first nozzle can be selectively opened or closed. The shut-off device is controlled so that only some of the number of first nozzles are opened at the same time while the rest are closed.

IPC 8 full level

B65B 39/00 (2006.01); **B65B 3/26** (2006.01)

CPC (source: EP)

B65B 3/326 (2013.01); **B65B 39/001** (2013.01); **B65B 2039/009** (2013.01); **B65B 2220/14** (2013.01)

Citation (search report)

- [AX] FR 2708563 A1 19950210 - ERCA [FR]
- [A] DE 19735619 A1 19990225 - BENHIL GASTI VERPACKUNGSMASCHI [DE]
- [AX] DE 10140001 A1 20030306 - JAGENBERG AG [DE]
- [A] CA 1290974 C 19911022 - CENTRAL ALBERTA DAIRY POOL [CA]
- [A] EP 1221409 A1 20020710 - NESTLE SA [CH]
- [A] DE 3503058 A1 19860731 - SCHWARTAUER WERKE GMBH & CO [DE]

Cited by

US9505506B2; WO2020202057A1; EP2177109A3; BE1027167B1; US2017015452A1; US10562655B2; FR2914538A1; EP1980153A1; EP2650253A1; CN103373688A; DE102014224411B3; US11207248B2; US11207261B2; US10987290B2; US2014326360A1; EP3409595A1; GB2569364A; GB2569364B; WO2008119731A1; WO2010088352A1; WO2013079411A1; WO2012015796A3; US11365397B2; US9671410B2; US11998024B2; US10150582B2; US10966916B2; US11419805B2; WO2008015556A3; WO2010043497A3; JP2012504945A; EP3947161B1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1657159 A1 20060517; **EP 1657159 B1 20070829**; AT E371585 T1 20070915; DE 102004055327 A1 20060518; DE 502005001368 D1 20071011; DK 1657159 T3 20080204; PL 1657159 T3 20080131

DOCDB simple family (application)

EP 05023931 A 20051103; AT 05023931 T 20051103; DE 102004055327 A 20041116; DE 502005001368 T 20051103; DK 05023931 T 20051103; PL 05023931 T 20051103