

Title (en)

A continuous-cycle sterile bottling plant

Title (de)

Anlage zum sterilen Füllen von Flaschen im Durchlaufverfahren

Title (fr)

Installation de remplissage stérile de bouteilles suivant un cycle continu

Publication

EP 0758624 A1 19970219 (EN)

Application

EP 96830270 A 19960509

Priority

- AU 7187896 A 19961120
- IT MO950120 A 19950811
- JP 31792396 A 19961128
- US 76762896 A 19961217

Abstract (en)

The bottling plant of the invention comprises a bottle (3) feed line and a plurality of operative groups (10, 20, 30, 40) each of which is provided with mobile organs which on command act on the bottles (3) transiting on the feed line. Each operative group is provided with a motor for commanding the mobile organs, and comprises a sterile chamber (10a, 20a, 30a, 40a) which is crossed by the bottles (3) and which has walls (4), which is kept slightly pressurized and which constitutes a sterile zone containing part of a relative operative group. At least one wall (4a, 4b) of each sterile chamber sealedly separates the relative sterile zone from the motors for moving the bottles and from the means for commanding the mobile organs of the relative operative group. <IMAGE>

IPC 1-7

B67C 7/00; **B65B 55/02**

IPC 8 full level

B65B 55/02 (2006.01); **B65B 55/10** (2006.01); **B65B 55/24** (2006.01); **B65B 55/04** (2006.01); **B67C 3/00** (2006.01); **B67C 3/22** (2006.01); **B67C 3/24** (2006.01); **B67C 7/00** (2006.01)

CPC (source: EP)

B65B 55/02 (2013.01); **B67C 3/001** (2013.01); **B67C 7/0073** (2013.01); **B67C 2003/2688** (2013.01)

Citation (search report)

- [Y] WO 9304975 A1 19930318 - MANZINI COMACO SPA [IT]
- [Y] GB 2280669 A 19950208 - SHEPPARD RAYMOND WILLIAM [GB]
- [YX] DE 4343425 A1 19950622 - KHS MASCH & ANLAGENBAU AG [DE]
- [A] EP 0518828 A1 19921216 - MANZINI COMACO SPA [IT]
- [A] GB 1488428 A 19771012 - SHIBUYA KOGYO CO LTD

Cited by

US8263015B2; EP1251085A1; EP2186770A3; EP0893397A1; EP1529751A1; DE10145803A1; DE10145803C2; FR2882341A1; JP2008531408A; FR2793213A1; EP2361874A3; EP1357081A1; JP2001158404A; EP1090843A3; EP1468959A3; US6830084B1; US6652199B2; US9233820B2; WO2006090045A1; WO2009130656A1; WO0137886A1; WO2010088942A1; US8375684B2; US8720164B2; DE202007017932U1; EP4063313A1; DE102021107727A1; WO0117891A1; EP2246176B2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

EP 0758624 A1 19970219; **EP 0758624 B1 20020807**; AT E221855 T1 20020815; AU 7187896 A 19980528; AU 727925 B2 20010104; DE 69622800 D1 20020912; DE 69622800 T2 20021205; ES 2180724 T3 20030216; IT 1279846 B1 19971218; IT MO950120 A0 19950811; IT MO950120 A1 19970211; JP H10157797 A 19980616

DOCDB simple family (application)

EP 96830270 A 19960509; AT 96830270 T 19960509; AU 7187896 A 19961120; DE 69622800 T 19960509; ES 96830270 T 19960509; IT MO950120 A 19950811; JP 31792396 A 19961128