

Title (en)
METHOD AND DEVICE FOR PRODUCING AND FILLING CONTAINERS

Title (de)
VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN UND BEFÜLLEN VON BEHÄLTERN

Title (fr)
PROCEDE ET DISPOSITIF DE FABRICATION ET DE REMPLISSAGE DE RECIPIENTS

Publication
EP 1708923 B1 20070620 (DE)

Application
EP 04804314 A 20041227

Priority
• EP 2004014724 W 20041227
• DE 102004004755 A 20040130

Abstract (en)
[origin: WO2005073087A1] The invention relates to a method and a device for producing and filling containers. According to the invention, at least one tube (12) made of a softened plastic material is extruded into an open mold (16), the leading end of said tube (12) is welded when the mold (16) is closed in order to form the bottom of the container, the tube (12) is cut in two above the mold by means of a cutting element (28) so as to form a feed hole (18), and the mold (16), along with the tube (12) comprising the open feed hole (18), is moved into a filling position in which the container is filled and then sealed after being configured in the mold (16) by generating a pressure gradient that acts upon the tube (12) and expands the same. The feed hole (18) of the tube (12) is covered by a sterile barrier (30) at least from the moment said feed hole (18) is formed to the time the associated container is filled in a sterile space. A high degree of sterility is obtained by the fact that at least one sterile medium (34) is conveyed in the direction of the feed hole (18) by means of the sterile barrier (30) and a medium-conveying device (36).

IPC 8 full level
B65B 3/02 (2006.01); **B65B 9/24** (2006.01); **B65B 55/10** (2006.01)

CPC (source: EP KR US)
B65B 3/02 (2013.01 - KR); **B65B 3/04** (2013.01 - KR); **B65B 9/24** (2013.01 - EP US); **B65B 43/02** (2013.01 - KR);
B65B 55/103 (2013.01 - EP US)

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005073087 A1 20050811; AT E365129 T1 20070715; AU 2004314960 A1 20050811; AU 2004314960 B2 20100513;
BR PI0418489 A 20070619; BR PI0418489 B1 20161213; CA 2549648 A1 20050811; CA 2549648 C 20110531; CN 100453407 C 20090121;
CN 1906088 A 20070131; DE 102004004755 A1 20050825; DE 502004004159 D1 20070802; DK 1708923 T3 20071029;
EP 1708923 A1 20061011; EP 1708923 B1 20070620; ES 2287800 T3 20071216; HK 1103062 A1 20071214; JP 2007519575 A 20070719;
JP 4532506 B2 20100825; KR 101204280 B1 20121127; KR 20060130143 A 20061218; PL 1708923 T3 20071130; PT 1708923 E 20070712;
US 2008041019 A1 20080221; US 8205416 B2 20120626

DOCDB simple family (application)
EP 2004014724 W 20041227; AT 04804314 T 20041227; AU 2004314960 A 20041227; BR PI0418489 A 20041227; CA 2549648 A 20041227;
CN 200480040680 A 20041227; DE 102004004755 A 20040130; DE 502004004159 T 20041227; DK 04804314 T 20041227;
EP 04804314 A 20041227; ES 04804314 T 20041227; HK 07107522 A 20070713; JP 2006549916 A 20041227; KR 20067015084 A 20041227;
PL 04804314 T 20041227; PT 04804314 T 20041227; US 58286904 A 20041227