Title (en)

METHOD OF FILLING AND SEALING A DEFORMABLE CONTAINER

Publication

EP 0434764 A4 19910828 (EN)

Application

EP 89911514 A 19890913

Priority

- CA 2038380 A 19910315
- US 8903987 W 19890913
- US 24482988 A 19880914

Abstract (en)

[origin: WO9002687A1] A method of filling and sealing a container (10) having a deformable bottom (12) with a product (34) having a volume less than the initial volume of the container, but equal to the volume of the final container with its bottom (12) deformed upward. The container is filled and a lid (26) is placed onto the container adjacent to a sealing surface (27). In its initial position enough headspace exists to permit the proper lid placement without squeezing product onto the sealing surface (27). The filled container with its unsealed lid (26) is placed on an anvil (30) in a vacuum chamber (38). The vacuum chamber (38) is vacuumized to a desired pressure and the lid (26) is sealed to the sealing surface (27) by sealing head (40). The container is then removed from the vacuum chamber (38). As a result of atmospheric pressure the bottom (12) is inverted upwardly thereby forcing the product (34) to fill the headspace voids.

IPC 1-7

B65B 31/02; B65B 7/28; B65B 1/04

IPC 8 full level

B65B 7/28 (2006.01); **B65B 31/02** (2006.01); **B65D 77/20** (2006.01)

CPC (source: EP)

B65B 31/028 (2013.01)

Citation (search report)

- [Y] US 3492773 A 19700203 - BERGSTROM ROGER C
- [X] FR 1547599 A 19681129 - BELLAPLAST GMBH
- [Y] US 2124959 A 19380726 - MARTIN VOGEL WILLIAM
- [Y] US 3351265 A 19671107 - MILLER HARMON B
- [Y] US 3103089 A 19630910 - LEE ALLEN ROBERT
- [A] EP 0251877 A1 19880107 - VULLIEZ PATRICK [FR], et al
- See references of WO 9002687A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

WO 9002687 A1 19900322; AT E108156 T1 19940715; AU 4342789 A 19900402; AU 632765 B2 19930114; CA 2038380 A1 19920916; CA 2038380 C 19970401; DE 68916647 D1 19940811; DE 68916647 T2 19941103; EP 0434764 A1 19910703; EP 0434764 A4 19910828; EP 0434764 B1 19940706; JP 2742954 B2 19980422; JP H04500651 A 19920206

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