

Title (en)
EXPANDABLE PRESSURIZED BARRIER CONTAINER

Publication
EP 0177047 B1 19910320 (EN)

Application
EP 85112585 A 19851004

Priority
• US 65827484 A 19841005
• US 77149185 A 19850905

Abstract (en)
[origin: EP0177047A2] A pressurized thin walled expandable can 10 from which a fluent pressurized product is dispensed is made from an expandable can wall 12 and a barrier 20, which may be a fully evertable bag having uniform thickness and flexibility and shaped to fit within the can wall 12. The open end of the bag is mounted to the can wall 12 by means which maintain a seal as the can wall expands and returns to its unexpanded condition. As product to be dispensed is introduced into the product chamber 30, the flexible bag is extended down into the lower end of the can. As the product is later expelled through a discharge opening, the flexible bag, which may be plastic, is fully everted into the upper end of the can to expel all the product. The can is thin walled, so that when pressurized, the can diameter expands by at least one-thousandth (1/1000) of its unexpanded value. In one embodiment, the bag is mounted by a ring 24 inside the can. The ring 24 includes a portion which expands to maintain the seal 64 with the expanding can side wall. In another embodiment the ring 24 is rigid, but of slightly larger diameter than the can 10. This ring stretches the can, so as to maintain the sealing contact with the can as the can expands. In other embodiments, the bag may be mounted by a stretchable adhesive and, if the bag is slightly elastic, it may be mounted by an adhesive or by a melt seal process such as heat sealing.

IPC 1-7
B65D 83/14

IPC 8 full level
B65D 83/16 (2006.01); **B65D 83/14** (2006.01); **B65D 83/28** (2006.01); **B65D 83/42** (2006.01); **B65D 83/58** (2006.01); **B05B 11/00** (2006.01)

CPC (source: EP)
B65D 83/62 (2013.01); **B05B 11/027** (2023.01)

Cited by
AU582189B2

Designated contracting state (EPC)
BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0177047 A2 19860409; EP 0177047 A3 19871007; EP 0177047 B1 19910320; AU 4826785 A 19860410; AU 582189 B2 19890316; CA 1255266 A 19890606; DE 3582213 D1 19910425; IL 76599 A0 19860228; IL 76599 A 19890630; JP S61178873 A 19860811

DOCDB simple family (application)
EP 85112585 A 19851004; AU 4826785 A 19851003; CA 492323 A 19851004; DE 3582213 T 19851004; IL 7659985 A 19851006; JP 22109885 A 19851002