

Title (en)

Method of connecting a packaging container body with a cover member

Title (de)

Verfahren zum Verbinden eines Unterteils eines Verpackungsbehälters mit einem Verschlusselement

Title (fr)

Procédé d'assemblage d'un corps de récipient et d'un couvercle

Publication

**EP 0882649 A1 19981209 (DE)**

Application

**EP 98202363 A 19970416**

Priority

- DE 19618310 A 19960508
- EP 97106215 A 19970416

Abstract (en)

The closure component (4) is first positioned with a ring seal (15) on the container edge area (5). Then an axial pressure force (19) is applied on the closure area, using a pressure tool until an adequate sealing compression of the ring seal is achieved. An expanding tool is then brought into contact with a radial inner side (21) of the closure edge area an expansion tool is brought into contact. The two edge areas are expanded by the expansion tool until a firm locking is achieved. In a further step, a free end area (10) of the container edge and a free end area (13) of the closure edge are radially expanded into a cavity (16) of a safety ring (17). The ratio between the container nominal diameter and the effective axial length of the expansion tool is between 15 and 25.

Abstract (de)

Ein Verpackungsbehälter (1) weist ein Unterteil (2) und ein in dessen obere Öffnung (3) eingesetztes Verschlusselement (4) auf. Ein erster Randbereich (5) des Unterteils (2) und ein zweiter Randbereich (6) des Verschlusselements (4) werden gemeinsam radial expandiert, bis sich eine formschlüssige Verriegelung von Wänden (7,8) der Randbereiche (5,6) ergeben hat. <IMAGE>

IPC 1-7

**B65B 7/28**; **B21D 51/34**; **B65D 8/20**

IPC 8 full level

**B21D 51/26** (2006.01); **B21D 51/34** (2006.01); **B65B 7/28** (2006.01); **B65D 8/20** (2006.01); **B65D 43/02** (2006.01); **B65D 45/32** (2006.01)

CPC (source: EP)

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Citation (search report)

- [AD] CH 391570 A 19650430 - AMERICAN FLANGE & MFG [US]
- [AD] CH 642316 A5 19840413 - VOGEL BMW AG [CH]
- [A] DE 3341962 A1 19850530 - RUSSOPULOS NIKO

Designated contracting state (EPC)

AT BE CH DE DK FI FR GB IT LI NL

DOCDB simple family (publication)

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