

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 0806345 B1 19990728 (DE)

Application

EP 97106215 A 19970416

Priority

DE 19618310 A 19960508

Abstract (en)

[origin: EP0806345A1] 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.

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)

B21D 51/2661 (2013.01); **B21D 51/34** (2013.01); **B65B 7/2857** (2013.01); **B65D 7/36** (2013.01); **B65D 43/0229** (2013.01); **B65D 43/0295** (2013.01); **B65D 45/32** (2013.01); **B65D 2401/25** (2020.05); **B65D 2543/00092** (2013.01); **B65D 2543/00277** (2013.01); **B65D 2543/00416** (2013.01); **B65D 2543/00509** (2013.01); **B65D 2543/00537** (2013.01); **B65D 2543/00546** (2013.01); **B65D 2543/00555** (2013.01); **B65D 2543/00972** (2013.01)

Cited by

EP0997381A1; US2022347736A1; US11813657B2; US11897021B2; US11891208B2; JP2012514535A; WO2010078635A3

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