

Title (en)

Rotary closure made by deep-drawing of aluminium for glass-bottles under internal pressure and deep-drawing device for a closing-head to make such rotary closures

Title (de)

Tiefgezogener Drehverschluss aus Aluminium für unter Innendruck stehende Glasflaschen sowie Tiefziehvorrichtung für einen Verschliesskopf zum Herstellen derartiger Drehverschlüsse

Title (fr)

Fermeture à vis formé par étirage d'aluminium pour bouteilles en verre sous pression interne, ainsi que dispositif d'étirage pour tête de fermeture destiné à la fabrication de telles fermetures à vis

Publication

EP 0430195 B1 19960320 (DE)

Application

EP 90122705 A 19901128

Priority

DE 3939783 A 19891201

Abstract (en)

[origin: EP0430195A1] A threaded closure made by deep-drawing of aluminium for glass bottles under internal pressure, wherein the tightness after filling is to be determined via deformation changes on its upper closure surface 4, has a particular shape at its upper closure surface 4 for the purposes of greater deformation changes which can thus be registered more reliably. Directly after completion of the closure operation, the upper closure surface 4 is thus pressed a short way with its central region 7 into the interior of the glass bottle and can be deformed in such a way that the central region 7 can be pressed outwards under the subsequent effect of sufficient internal pressure. Such threaded closures are also particularly suitable for fully automatic control measurements. In the deep-drawing device, also specified, for a closing-head to make such threaded closures, a stop 13, held displaceably in the inner cutout 12 of a die 8, is to have a central pressing-on surface 15 which extends a short way beyond the base area 16 of the stop 13 and is arranged concentrically to the mid-axis 9 of the die 8. <IMAGE>

IPC 1-7

B65D 79/02; **B67B 3/10**

IPC 8 full level

B67B 3/12 (2006.01); **B65D 79/00** (2006.01); **B65D 79/02** (2006.01); **B67B 3/10** (2006.01)

CPC (source: EP US)

B65D 79/0087 (2020.05 - EP US); **B67B 3/10** (2013.01 - EP)

Cited by

GB2409447A; GB2409447B

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0430195 A1 19910605; **EP 0430195 B1 19960320**; AT E135654 T1 19960415; DE 3939783 A1 19910606; DE 3939783 C2 19930218; DE 59010216 D1 19960425; JP H03176397 A 19910731

DOCDB simple family (application)

EP 90122705 A 19901128; AT 90122705 T 19901128; DE 3939783 A 19891201; DE 59010216 T 19901128; JP 32340290 A 19901128