

Title (en)

METHOD OF INSERTING A BARRIER LINER INTO A CLOSURE

Title (de)

VERFAHREN ZUM EINSETZEN EINER SPERRAUSKLEIDUNG IN EINEN VERSCHLUSS

Title (fr)

PROCEDE D'INSERTION D'UNE DOUBLURE DE SEPARATION DANS UN DISPOSITIF DE BOUCHAGE

Publication

EP 1539592 A4 20051102 (EN)

Application

EP 03763513 A 20030711

Priority

- AU 0300906 W 20030711
- AU 2002950194 A 20020715

Abstract (en)

[origin: WO2004007296A2] The present invention relates to a method and apparatus for positioning a disc, such as a barrier disc (20), in a closure (40). In particular, the invention relates to a method and apparatus for positioning a barrier disc (20) in a self-sealing moulded plastic closure (40) having a sealing fin arrangement (22) for providing a seal when the closure (40) is appropriately applied to a finish of a container (30). The method comprises the steps of providing a barrier disc (20) in a position ready for insertion within the closure (40); pressing the barrier disc (20) relatively into the closure (40) such that at least a portion of the disc (20) is positioned at least adjacent the top panel thereof; and applying a fluid pressure to the barrier disc (20) such that the entire disc is forced into a position at least adjacent the top panel. The apparatus comprises an insertion station for supporting the closure (40) through the disc positioning process and a tool (50) that is movable relative to the insertion station to drive the disc (20) relatively into the closure (40). The tool (50) comprises a plunger (55) adapted to press the disc (20) into the closure (40) such that at least a portion of the disc (20) is adjacent the top panel thereof, and a fluid flow passage through which fluid travels to apply fluid pressure to the disc (20) and force the entire disc (20) past the sealing fin (22) and into a position at least adjacent the top panel.

IPC 1-7

B29C 43/18; B21D 51/46; B65D 41/04

IPC 8 full level

B21D 51/46 (2006.01); **B29C 43/18** (2006.01); **B65D 41/04** (2006.01); **B65D 41/34** (2006.01); **B65D 53/04** (2006.01)

CPC (source: EP US)

B21D 51/46 (2013.01 - EP US); **B29C 43/18** (2013.01 - EP US); **B65D 41/045** (2013.01 - EP US); **B65D 41/3428** (2013.01 - EP US);
B65D 53/04 (2013.01 - EP US); **B29C 2043/3605** (2013.01 - EP US); **Y10T 29/49945** (2015.01 - EP US); **Y10T 29/53322** (2015.01 - EP US);
Y10T 29/53443 (2015.01 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2004007296A2

Cited by

WO2018019259A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004007296 A2 20040122; WO 2004007296 A3 20040325; AU 2002950194 A0 20020912; CA 2493682 A1 20040122;
EP 1539592 A2 20050615; EP 1539592 A4 20051102; MX PA05000622 A 20051104; US 2006140745 A1 20060629

DOCDB simple family (application)

AU 0300906 W 20030711; AU 2002950194 A 20020715; CA 2493682 A 20030711; EP 03763513 A 20030711; MX PA05000622 A 20030711;
US 52136205 A 20050824