

Title (en)
Two-stage injection moulded closure

Title (de)
In einem zweistufigen Spritzgiessverfahren hergestellter Verschluss

Title (fr)
Bouchon verseur bi-injection

Publication
EP 1382539 B1 20070411 (FR)

Application
EP 02015937 A 20020717

Priority
EP 02015937 A 20020717

Abstract (en)
[origin: EP1382539A1] The one-piece stopper, for a bottle, has a body (1) to be fitted to the neck of the bottle and a cap (2) linked to the body by a lateral hinge (3). The body has a rigid upper section (1a) to give a sealed fit when the cap is closed and locked. The body has an inner tube (10) to deliver the bottle contents, and a lower flexible section (1b) which can be distorted to fit over the bottle neck. The one-piece stopper, for a bottle, has a body (1) to be fitted to the neck of the bottle and a cap (2) linked to the body by a lateral hinge (3). The body has a rigid upper section (1a) to give a sealed fit when the cap is closed and locked. The body has an inner tube (10) to deliver the bottle contents, and a lower flexible section (1b) which can be distorted to fit over the bottle neck. The cap has a locking hook (21) at a tab (22), which clicks into an opening (12) in the upper part of the body. The hook has barbs (21a) which are fractured when the cap is opened for the first time, and remain within the opening. The stopper structure is produced by a two-component injection molding process.

IPC 8 full level
B65D 47/08 (2006.01); **B65D 47/10** (2006.01); **B65D 55/02** (2006.01)

CPC (source: EP)
B65D 47/043 (2013.01); **B65D 47/0804** (2013.01); **B65D 47/103** (2013.01); **B65D 2251/1025** (2013.01); **B65D 2251/20** (2013.01)

Cited by
US2013020327A1; FR2888566A1; FR2937958A1; EP2045192A1; ES2255883A1; CN106809496A; JP2020132190A; WO2013186522A1; WO2007006892A1; EP2074052B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
EP 1382539 A1 20040121; EP 1382539 B1 20070411; AT E359214 T1 20070515; DE 60219453 D1 20070524; ES 2286179 T3 20071201

DOCDB simple family (application)
EP 02015937 A 20020717; AT 02015937 T 20020717; DE 60219453 T 20020717; ES 02015937 T 20020717