

Title (en)  
Two-stage injection moulded closure

Title (de)  
In einem zweistufigen Spritzgiessverfahren hergestellter Verschluss

Title (fr)  
Bouchon verseur bi-injection

Publication  
**EP 1382539 A1 20040121 (FR)**

Application  
**EP 02015937 A 20020717**

Priority  
EP 02015937 A 20020717

Abstract (en)  
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.

Abstract (fr)  
Bouchon d'une seule pièce comprenant un corps (1) destiné à être monté sur le col d'un récipient et un capuchon (2) raccordé audit corps (1) par une charnière latérale (3) caractérisé en ce que ledit corps (1) comprend une partie supérieure rigide (1a) assurant le maintien et le verrouillage du capuchon (2) en position de fermeture étanche et qui est pourvue d'un élément tubulaire central (10) de distribution et une partie inférieure souple (1b) permettant la fixation du corps (1) par déformation élastique sur le col du récipient. <IMAGE>

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

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Citation (search report)  
• [A] FR 2647088 A1 19901123 - RICAL SA [FR]  
• [A] GB 2193193 A 19880203 - GRAND IND CO LTD

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

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