

Title (en)  
BOTTLE CLOSURE ASSEMBLY

Title (de)  
FLASCHENVERSCHLUSSANORDNUNG

Title (fr)  
ENSEMBLE DE FERMETURE DE BOUTEILLE

Publication  
**EP 4112491 A1 20230104 (EN)**

Application  
**EP 21182602 A 20210629**

Priority  
EP 21182602 A 20210629

Abstract (en)  
A bottle closure assembly comprising a cap, a retaining ring, and first and second connecting portions connecting the cap to the retaining ring, the cap being provided with a male thread configured to reversibly engage a female thread on a bottle opening, the retaining ring being configured to engage a bottle neck and where the connecting portions connect two points on the cap to two points on the retaining ring; each of the connecting portions comprises an upper end joined to the cap, and a lower end joined to the retaining ring, wherein as the cap is unscrewed it separates from the retaining ring but remains connected to said retaining ring via the connecting portions; and wherein, in the open configuration, the cap can be oriented such that the cap and retaining ring define an angle of at least 150°, especially at least 180°.

IPC 8 full level  
**B65D 41/34** (2006.01); **B65D 55/16** (2006.01)

CPC (source: EP)  
**B65D 41/3447** (2013.01); **B65D 55/16** (2013.01); **B65D 2251/1008** (2013.01); **B65D 2401/30** (2020.05)

Citation (applicant)

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- WO 2019207148 A1 20191031 - OBRIST CLOSURES SWITZERLAND [CH]
- JP 2011173600 A 20110908 - CROWN CORK JAPAN
- WO 9744371 A1 19971127 - DOW CHEMICAL CO [US], et al
- WO 9618662 A1 19960620 - BOREALIS POLYMERS OY [FI]
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- B. HAGSTROM: "Conference on Polymer Processing", vol. 4, 19 August 1997, THE POLYMER PROCESSING SOCIETY, article "Extended Abstracts and Final Programme, Gothenburg", pages: 13

Citation (search report)

- [X1] WO 2021068058 A1 20210415 - HUSKY INJECTION MOLDING SYSTEMS LTD [CA]
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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DOCDB simple family (application)  
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