

Title (en)  
SCREW CLOSURE WITH CONTROLLED SEAL

Title (de)  
SCHRAUBVERSCHLUSS MIT KONTROLLIERTER DICHTUNG

Title (fr)  
BOUCHON FILETÉ DOTÉ D'UN JOINT D'ÉTANCHÉITÉ RÉGLÉ

Publication  
**EP 3817990 C0 20240214 (DE)**

Application  
**EP 19736350 A 20190702**

Priority  
• DE 102018116295 A 20180705  
• EP 2019067690 W 20190702

Abstract (en)  
[origin: WO2020007832A1] The invention relates to a plastic closure for placing on the neck of a liquid container in a formfitting and sealing manner, comprising a head plate (1), which is provided for covering a container opening, an outer seal (7), which is circumferential along the edge of the head plate (1) and is provided for engaging with the exterior of a container neck (20) that defines the container opening, and an inner seal (5) which is circumferential within the outer seal (7) and parallel to same and which is provided for engaging with the inner face of the container neck. The outer and the inner seal (7, 5) each extends approximately perpendicularly or at a slight angle to the inner face (11) of the head plate (1). In order to provide a closure and to provide a container with a closure which generally prevent the closure from being blown off under high positive pressures, the outer seal (7) has a weakened region (6, 6', 6'') in at least one circumferential section such that the outer seal (7) becomes unsealed at a lower internal positive pressure than when the outer seal is formed without the weakened region.

IPC 8 full level  
**B65D 51/16** (2006.01)

CPC (source: EP US)  
**B65D 39/08** (2013.01 - US); **B65D 51/1661** (2013.01 - EP US); **B65D 2251/20** (2013.01 - US)

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

Participating member state (EPC – UP)  
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)  
**WO 2020007832 A1 20200109**; BR 112020024220 A2 20210217; CN 112469637 A 20210309; CN 112469637 B 20220809;  
DE 102018116295 A1 20200130; EP 3817990 A1 20210512; EP 3817990 B1 20240214; EP 3817990 C0 20240214; ES 2974514 T3 20240627;  
US 11939124 B2 20240326; US 2021206545 A1 20210708

DOCDB simple family (application)  
**EP 2019067690 W 20190702**; BR 112020024220 A 20190702; CN 201980045218 A 20190702; DE 102018116295 A 20180705;  
EP 19736350 A 20190702; ES 19736350 T 20190702; US 201917058635 A 20190702