

Title (en)  
SNAP-ACTION CLOSURE WITH AN ELASTIC SEAL

Title (de)  
SCHNAPPVERSCHLUSS MIT ELASTISCHER DICHTUNG

Title (fr)  
FERMETURE DU TYPE ENCLIQUETABLE AVEC ETANCHEITE ELASTIQUE

Publication  
**EP 1230130 B1 20040218 (EN)**

Application  
**EP 00971562 A 20001023**

Priority  
• GB 0004091 W 20001023  
• GB 9925205 A 19991025

Abstract (en)  
[origin: WO0130664A1] The present invention relates to improvements to snap-action closures. The problem of leakage in the conventional snap-action closures is overcome by providing a resilient seal comprising an elastic gel composition between the opening and the flexible panel (2) which deforms when the flexible panel (2) is closed to create a liquid-tight seal. In particular, the gap in the region of the closure hinge (7) is closed by the elastic flow of sealant material (9) where very little, if any, closing force is otherwise exerted.

IPC 1-7  
**B65D 47/08**; B65D 47/20; B65D 53/06; B65D 25/46

IPC 8 full level  
**B65D 47/08** (2006.01); **B65D 47/20** (2006.01); **B65D 53/06** (2006.01); **C09K 3/10** (2006.01)

CPC (source: EP)  
**B65D 47/0809** (2013.01); **B65D 47/2018** (2013.01); **B65D 53/06** (2013.01); **B65D 2251/1016** (2013.01); **B65D 2251/1066** (2013.01); **B65D 2251/205** (2013.01); **B65D 2401/00** (2020.05); **B65D 2401/60** (2020.05)

Cited by  
US11111059B2; WO2019018650A1; US10729262B2

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

DOCDB simple family (publication)  
**WO 0130664 A1 20010503**; AT E259743 T1 20040315; AU 1040101 A 20010508; AU 776758 B2 20040923; BR 0014968 A 20020702; CA 2387067 A1 20010503; CN 1138684 C 20040218; CN 1384796 A 20021211; DE 60008409 D1 20040325; DE 60008409 T2 20050217; EP 1230130 A1 20020814; EP 1230130 B1 20040218; ES 2211632 T3 20040716; GB 9925205 D0 19991222; JP 2003512267 A 20030402; MX PA02004121 A 20030820; NZ 518471 A 20040130; ZA 200202817 B 20030625

DOCDB simple family (application)  
**GB 0004091 W 20001023**; AT 00971562 T 20001023; AU 1040101 A 20001023; BR 0014968 A 20001023; CA 2387067 A 20001023; CN 00814861 A 20001023; DE 60008409 T 20001023; EP 00971562 A 20001023; ES 00971562 T 20001023; GB 9925205 A 19991025; JP 2001533032 A 20001023; MX PA02004121 A 20001023; NZ 51847100 A 20001023; ZA 200202817 A 20020410