

Title (en)

TAMPER EVIDENT SCREW CLOSURES

Title (de)

MANIPULATIONSSICHERE SCHRAUBVERSCHLÜSSE

Title (fr)

FERMETURES À VIS À BAGUE D'INVOLABILITÉ

Publication

EP 3475181 A1 20190501 (EN)

Application

EP 17732137 A 20170623

Priority

- GB 201610987 A 20160623
- EP 2017065551 W 20170623

Abstract (en)

[origin: GB2551566A] A pawl 18c attaches to a tamper indicating band 14 at its base 44c and at link 38c. The band is frangibly attached to a screw closure for a container. When the closure is screwed on for the first time the link can buckle to allow a cooperating lug past but can extend during attempts to unscrew to resist collapse of the pawl when it engages the lug, prevent rotation of the band and detach the band from the closure. The link can be curved towards the pawls other attachment or include thinned portions 46 to aid buckling. The link ideally attaches to the tip of the pawl. The band can be formed of segments and/or partially enclosed by a cover. The pawl can be thin 44c where it attaches to the band and thick at its tip. A guard stop thinner than the band width could limit excess flexing of the pawl instead of the link 38c. The pawl can have a flat face to engage a tooth of the container.

IPC 8 full level

B65D 41/34 (2006.01)

CPC (source: EP GB US)

B65D 41/3409 (2013.01 - EP GB US); **B65D 2401/15** (2020.05 - EP US)

Citation (search report)

See references of WO 2017220785A1

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

DOCDB simple family (publication)

GB 201610987 D0 20160810; GB 2551566 A 20171227; BR 112018076625 A2 20190402; CN 109641682 A 20190416; EP 3475181 A1 20190501; US 2020317406 A1 20201008; WO 2017220785 A1 20171228

DOCDB simple family (application)

GB 201610987 A 20160623; BR 112018076625 A 20170623; CN 201780047279 A 20170623; EP 17732137 A 20170623; EP 2017065551 W 20170623; US 201716310800 A 20170623