

Title (en)

LOCKING BOTTLE TRANSPORT RING FOR A STOPPER

Title (de)

VERRIEGELBARER FLASCHENTRANSPORTRING FÜR EINEN STOPFEN

Title (fr)

BAGUE DE VERROUILLAGE DE TRANSPORT DE BOUTEILLE POUR UN BOUCHON

Publication

EP 3837187 A4 20220511 (EN)

Application

EP 19849862 A 20190814

Priority

- US 201862718956 P 20180814
- US 2019046587 W 20190814

Abstract (en)

[origin: WO2020037089A1] The present invention discloses a stopper affixed to a bottle. The bottle comprises a bottle finish, a tamper evident ring, a transport ring, a neck including an integrally formed locking feature. The bottle finish is configured to receive a stopper comprising a closure shell and a tamper band, where the closure shell and the tamper band being separably connected. The transport ring is located below the tamper evident ring and the tamper band is configured to be positioned between the tamper evident ring and the transport ring. The locking feature is configured to receive and retain at least a portion of the closure shell between a bottom surface of the transport ring and a bottom surface of the neck when the closure shell is separated from the tamper band. Also, the present invention discloses a method for locking a stopper onto a bottle.

IPC 8 full level

B65D 55/16 (2006.01); **B65D 1/02** (2006.01); **B65D 23/14** (2006.01); **B65D 41/34** (2006.01)

CPC (source: EP US)

B65D 1/023 (2013.01 - EP); **B65D 1/0246** (2013.01 - US); **B65D 23/14** (2013.01 - EP); **B65D 41/34** (2013.01 - EP); **B65D 41/3423** (2013.01 - US); **B65D 55/16** (2013.01 - EP US)

Citation (search report)

- [A] KR 20020075345 A 20021004 - JANG YOU DUCK [KR]
- [A] WO 9727113 A1 19970731 - CAPWELL L L C [US], et al
- [A] US 2015368013 A1 20151224 - OBREGON FRANCISCO J [US]
- [A] KR 200284869 Y1 20020813
- [A] US 6105802 A 20000822 - FRENCH FLOYD R [US], et al
- See references of WO 2020037089A1

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

DOCDB simple family (publication)

WO 2020037089 A1 20200220; CA 3107768 A1 20200220; EP 3837187 A1 20210623; EP 3837187 A4 20220511; EP 3837187 B1 20230607; MX 2021001474 A 20210428; US 2021323740 A1 20211021

DOCDB simple family (application)

US 2019046587 W 20190814; CA 3107768 A 20190814; EP 19849862 A 20190814; MX 2021001474 A 20190814; US 201917268137 A 20190814