

Title (en)  
DEVICE FOR INSERTING AND REMOVING STOPPERS FROM BOTTLES

Title (de)  
GERÄT ZUM EINSETZEN UND ENTFERNEN VON KAPPEN AUF FLASCHEN

Title (fr)  
DISPOSITIF POUR INSÉRER ET RETIRER LES CAPUCHONS DES BOUTEILLES

Publication  
**EP 3078626 A1 20161012 (EN)**

Application  
**EP 15425029 A 20150407**

Priority  
EP 15425029 A 20150407

Abstract (en)  
Device for inserting and removing stoppers (14) from bottles based on a mechanical and pneumatic system which uses the mechanism of air compression and decompression in its inside. The device allows both to insert and to remove stoppers from bottles; it is also easily usable even only with one hand; it allows the operator to avoid contact with the stopper, with the bottle and with its contents; it is not bulky; it is lightweight; it speeds up the closing and opening of the bottle and its parts can be removed to facilitate and improve sterilization.

IPC 8 full level  
**B67B 1/04** (2006.01); **B65B 7/28** (2006.01); **B67B 7/08** (2006.01)

CPC (source: EP)  
**B67B 1/045** (2013.01); **B67B 7/08** (2013.01); **B65B 7/2821** (2013.01)

Citation (search report)

- [X] WO 2004016544 A1 20040226 - FINNIGAN TIMOTHY [AU]
- [X] DE 202014103967 U1 20140916 - HSIEH CHIH LIN [TW], et al
- [I] DE 621174 C 19351102 - GEORG KEYN
- [I] DE 202011003359 U1 20110505 - POLLMUELLER FRITHJOF [DE]

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)  
**EP 3078626 A1 20161012**; DK 3280678 T3 20200928; EP 3280678 A1 20180214; EP 3280678 B1 20200624; ES 2822229 T3 20210429; WO 2016165817 A1 20161020

DOCDB simple family (application)  
**EP 15425029 A 20150407**; DK 16726008 T 20160407; EP 16726008 A 20160407; EP 2016000576 W 20160407; ES 16726008 T 20160407