

Title (en)  
Closer

Title (de)  
Verschließer

Title (fr)  
Dispositif de fermeture

Publication  
**EP 2330071 A3 20130522 (DE)**

Application  
**EP 10189245 A 20101028**

Priority  
DE 102009047543 A 20091204

Abstract (en)  
[origin: EP2330071A2] The closure (V) has an upper part (O) is rotatably driven by a closure-drive motor (M) and supports a closure element (E). A container carrier (7) driven at a lower part (U) by the motor for transportation of a container (B). The upper part is height-adjustable relative to the lower part by the motor for adjusting different heights of the container. A coupling system (K) is alternatively switched between a drive function and an upper part-height adjusting function. The drive motor is designed as a transmission servo-motor.

IPC 8 full level  
**B67B 3/00** (2006.01); **B67B 3/28** (2006.01)

CPC (source: EP US)  
**B67B 3/00** (2013.01 - EP US); **B67B 3/28** (2013.01 - EP US)

Citation (search report)

- [A] US 3707822 A 19730102 - VAN DER MEER L
- [A] EP 0571980 A2 19931201 - WILHELM BAUSCH ROLF STROEBEL S [DE]
- [A] US 1598392 A 19260831 - RISSE ARTHUR I
- [AP] DE 102008037101 A1 20100211 - KRONES AG [DE]

Cited by  
CN103625914A; CN110402232A; EP4191084A1; WO2018166690A1

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 2330071 A2 20110608; EP 2330071 A3 20130522; EP 2330071 B1 20131023**; CN 102107838 A 20110629; CN 102107838 B 20130410; DE 102009047543 A1 20110609; US 2011131923 A1 20110609; US 8656688 B2 20140225

DOCDB simple family (application)  
**EP 10189245 A 20101028**; CN 201010579443 A 20101203; DE 102009047543 A 20091204; US 95940710 A 20101203