

Title (en)

Container emptying apparatus

Title (de)

Vorrichtung zum Leeren von Behältern

Title (fr)

Appareil permettant de vider un récipient

Publication

**EP 2644515 B1 20141119 (EN)**

Application

**EP 12161362 A 20120326**

Priority

EP 12161362 A 20120326

Abstract (en)

[origin: EP2644515A1] Described herein is a method and apparatus for automatically emptying bottles (132, 134, 136, 138) from a crate (110) without the need for supporting each of the bottles (132, 134, 136, 138) during the process. A housing (140) is moved to surround and to engage with the crate (110) containing a plurality of bottles (132, 134, 136, 138). The housing (140) is closed to form an enclosure prior to being inverted. The enclosure is re-opened after inversion so that a base portion (112) of the crate (110) can be removed by an arm (170) leaving the bottles (132, 134, 136, 138) within the housing (140). The housing (140) is re-closed to form the enclosure and is then re-inverted prior to being re-opened to deposit the bottles (132, 134, 136, 138) on a delivery surface.

IPC 8 full level

**B65B 21/22** (2006.01)

CPC (source: EP)

**B65B 21/22** (2013.01); **B65B 69/00** (2013.01)

Cited by

JP2017043402A; CN109229673A; JP2022063985A; EP4206078A1; BE1030152B1; WO2022079959A1; WO2024059890A3; WO2024059890A2

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)

**EP 2644515 A1 20131002; EP 2644515 B1 20141119**

DOCDB simple family (application)

**EP 12161362 A 20120326**