

Title (en)
Container emptying apparatus

Title (de)
Vorrichtung zum Leeren von Behältern

Title (fr)
Appareil permettant de vider un récipient

Publication
EP 2644515 A1 20131002 (EN)

Application
EP 12161362 A 20120326

Priority
EP 12161362 A 20120326

Abstract (en)
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.

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B65B 21/22 (2006.01)

CPC (source: EP)
B65B 21/22 (2013.01); **B65B 69/00** (2013.01)

Citation (applicant)
• GB 1407782 A 19750924 - BURTON MACHINE CORP JOHN
• DE 1154756 B 19630919 - KETTNER MAX
• EP 0126636 A1 19841128 - SCHAARSCHMIDT MANFRED LOTHAR
• GB 0709238 A 20070514
• DD 146926 A1 19810311 - PAPE HANS JUERGEN

Citation (search report)
• [X] DE 1222846 B 19660811 - MAXIMILIAN KETTNER
• [A] US 1253748 A 19180115 - TYSON FRANK [US]
• [AD] DD 146926 A1 19810311 - PAPE HANS JUERGEN
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JP2017043402A; CN109229673A; JP2022063985A; EP4206078A1; BE1030152B1; WO2022079959A1; WO2024059890A3; WO2024059890A2

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