

Title (en)

Device for applying a carrier tying several containers into one handling unit.

Title (de)

Vorrichtung zum Anbringen eines eine Anzahl von Behältern zu einer Handhabungseinheit verbindenden Trägers.

Title (fr)

Dispositif pour la mise en place d'un porte-objets reliant plusieurs récipients en une unité de manipulation.

Publication

**EP 0053720 A1 19820616 (DE)**

Application

**EP 81109238 A 19811029**

Priority

DE 3046423 A 19801210

Abstract (en)

1. A device for applying open and locking an inherently rigid carrier typing at least one row of bottles (14) or similar containers into a handling unit, said carrier made of cardboard and comprising a bottom wall (18) provided for rest against the bottle shoulders (27) and having apertures for the bottlenecks, further comprising a top wall (19) with apertures for the bottle heads and side walls (22) joining said top (19) and bottom (18) walls, with locking tongues (20) for the bottle heads being punched out of said apertures for the bottle heads, said tongues being defined to engage undercutting edges (26) below the bottle closures (15) against which the carrier (16) is biased due to its inherent rigidity and elasticity while resting against the bottle shoulders (27), the device comprising means (10) for placing the assembled carrier (16) onto the row(s) of bottles (14) arranged on a base in the configuration in which they are to be tied and comprising a driven applying head being movable towards the row(s) of bottles (14) for pressing the entire carrier (16) positioned on the bottles (14) by means of pressure against its upper wall (19) in the proximity of the locking tongues (20) with its locking tongues (20) simultaneously behind the undercutting edges (26) of all bottle closures (15), and being provided with recesses (7) for the accomodation of those portions of the bottle heads topping the undercutting edges (26) of the bottle closures (15), characterized in that the applying head for bottles (14) of similar containers whose undercutting edges (26) are on varying levels is provided with a plurality of applying elements (3) respectively within the confinement of each bottle (14), said applying heads being arranged independently from each other within the applying head in a manner resiliently yieldable against the direction of application and provided in the recesses (7) for the bottle heads with stroke limitation abutments (8) the distance of which from the application faces (25) of the applying elements (3) being dimensioned such that the respective locking tongues (20) of the carrier (16) upon abutment of an applying element (3) with its stroke limitation abutment (8) against a bottle head become situated just below the undercutting edges (26) of the closure (15) of that bottle.

Abstract (de)

Aus der britischen Patentschrift 1 395 723 beispielsweise sind Flaschenträger aus Kartonzuschnitten bekannt, die eine Reihe von Flaschen lediglich im Halsbereich untereinander verbinden und sich beispielsweise hinter den Unterkanten von Kronenkorken abstützen. Da die Aufdrückwege für den Träger zum Hintergreifen der Kronenkorken sehr genau sein müssen, war man bisher der Auffassung, daß zum Ausgleich von Flaschenhöhentoleranzen die Flasche von unten her mit ihren Mündungen für das Aufdrücken der Träger auf eine Ebene gebracht werden müssen. Nach der Erfindung werden die Träger (16) bei nicht höhenausgerichteten Flaschen (14) mit einem Aufdrückkopf aufgebracht, der voneinander unabhängige Aufdrückelemente (3) aufweist, die im Bereich jedes Flaschenkopfes einen individuellen Aufdrückweg bis zum Hintergreifen des Kronenkorkens (3) durch Abstützkanten (21) des Trägers (16) ausführen.

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**B65B 17/02**

IPC 8 full level

**B65B 17/02** (2006.01)

CPC (source: EP)

**B65B 17/025** (2013.01)

Citation (search report)

- [A] US 4121401 A 19781024 - DUERR JOSEPH W, et al
- [A] EP 0031992 A1 19810715 - MICHAEL F JOYCE TRADING AS INN [GB]
- [A] FR 2256075 A1 19750725 - ILLINOIS TOOL WORKS [US]
- [A] US 3937360 A 19760210 - DOUCETTE EUGENE F

Cited by

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