

Title (en)
DEVICE FOR APPLYING A CARRIER TYING SEVERAL CONTAINERS INTO ONE HANDLING UNIT

Publication
EP 0053720 B1 19860108 (DE)

Application
EP 81109238 A 19811029

Priority
DE 3046423 A 19801210

Abstract (en)
[origin: EP0053720A1] 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 accommodation 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.

IPC 1-7
B65B 17/02

IPC 8 full level
B65B 17/02 (2006.01)

CPC (source: EP)
B65B 17/025 (2013.01)

Citation (examination)
• GB 1427510 A 19760310 - GAUNTLETT J H
• GB 1395723 A 19750529 - GAUNTLETT J H
• EP 0000627 A1 19790207 - JOYCE MICHAEL FRED

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EP0623524A1

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AT BE CH DE FR GB IT LI NL

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EP 0053720 A1 19820616; EP 0053720 B1 19860108; AT E17333 T1 19860115; DE 3046423 A1 19820715; DE 3173473 D1 19860220

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