

Title (en)

Gripper device for jointly charging or discharging boxes or the like with bottles or the like containers

Title (de)

Greifvorrichtung für gemeinsam in einen Kasten oder dergl. abzusetzende oder daraus zu entnehmende Flaschen oder dergl. Behältnisse

Title (fr)

Dispositif de préhension pour bouteilles ou récipients similaires à charger ou décharger ensemble dans une armoire ou similaire

Publication

EP 0497264 B2 19970820 (DE)

Application

EP 92101334 A 19920128

Priority

DE 9101063 U 19910131

Abstract (en)

[origin: US5242256A] The individual grippers of a gripper head provided for simultaneously introducing a number of bottles into a box or removing them from the box, where the bottles have neck diameters close to the diameter of the body of the bottle, have polygonal external cross sections with even numbers of sides so that the cylindrical sockets can lie close together. The sockets receive elastic inserts which are actuatable by pistons.

IPC 1-7

B65G 47/90; **B65G 21/12**

IPC 8 full level

B25J 15/08 (2006.01); **B25J 15/00** (2006.01); **B25J 15/06** (2006.01); **B65B 21/02** (2006.01); **B65B 21/12** (2006.01); **B65B 21/18** (2006.01); **B65G 21/12** (2006.01); **B65G 47/74** (2006.01); **B65G 47/90** (2006.01)

CPC (source: EP US)

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Cited by

CN109607173A; CN113682570A

Designated contracting state (EPC)

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US 5242256 A 19930907; AT E119851 T1 19950415; BR 9200313 A 19921006; CS 26092 A3 19920916; CZ 279491 B6 19950517; DE 59201627 D1 19950420; DE 9101063 U1 19910418; EP 0497264 A1 19920805; EP 0497264 B1 19950315; EP 0497264 B2 19970820; HU 214456 B 19980330; HU 9200308 D0 19920428; HU T66877 A 19950130; JP H0569375 A 19930323

DOCDB simple family (application)

US 83040392 A 19920131; AT 92101334 T 19920128; BR 9200313 A 19920130; CS 26092 A 19920129; DE 59201627 T 19920128; DE 9101063 U 19910131; EP 92101334 A 19920128; HU 9200308 A 19920131; JP 1663592 A 19920131