

Title (en)

A method in the returning of bottles and a bottle return system.

Title (de)

Verfahren zur Rückgabe von Flaschen und Flaschenrückgabesystem.

Title (fr)

Méthode pour déconsigner des bouteilles et système à déconsigner des bouteilles.

Publication

EP 0591120 A1 19940406 (EN)

Application

EP 93850183 A 19930930

Priority

FI 924430 A 19921001

Abstract (en)

The invention relates to a bottle return system and a method in the returning of bottles. A returnable bottle is fed to a bottle return automaton (10a1, 10a2, 10a3...), which are by their number several in a bottle return center. The returner of a bottle receives for the return a receipt an/or a remuneration corresponding to the bottle, and whereby the returnable bottle transfers from the bottle return automation (10a1, 10a2, 10a3...) on a conveyor belt (10c1, 10c2, 10c3...) and forwards towards the end of the conveyor belt. In the inventive method is used a crating unit (12) to alternately serve each return-center return automaton (10a1, 10a2,...). The crating unit (12) may be freely transferred to the connection of a conveyor belt (10c) of each bottle return automaton (10a1, 10a2,...). The returnable bottles are alternately fed from each conveyor belt (10c1, 10c2, 10c3...) to the crating means (I) of the crating unit (12), which crating means disposes the returnable bottles into empty crates. <IMAGE>

IPC 1-7

G07F 7/06; B65B 21/02

IPC 8 full level

G07F 7/06 (2006.01)

CPC (source: EP)

G07F 7/0609 (2013.01)

Citation (search report)

- [Y] EP 0010686 A1 19800514 - SEITZ ENZINGER NOLL MASCH [DE]
- [Y] WO 8807244 A1 19880922 - ROPELATO MICHEL [FR], et al
- [A] US 4518073 A 19850521 - PASTIEN EUGENE R [US]

Cited by

DE29609410U1; AU2011317931B2; US8813938B2; WO2012051999A3

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0591120 A1 19940406; DE 4333428 A1 19940428; DK 110793 A 19940402; DK 110793 D0 19931001; FI 92380 B 19940729; FI 92380 C 19941110; FI 924430 A0 19921001; FI 924430 A 19940402; NO 933502 D0 19930930; NO 933502 L 19940405

DOCDB simple family (application)

EP 93850183 A 19930930; DE 4333428 A 19930930; DK 110793 A 19931001; FI 924430 A 19921001; NO 933502 A 19930930