

Title (en)

DEVICE FOR AUTOMATIC RETURN OF EMPTY CONTAINERS

Publication

**EP 0291741 A3 19891123 (DE)**

Application

**EP 88106814 A 19880427**

Priority

DE 3715815 A 19870512

Abstract (en)

[origin: US4851699A] In the case of a device for mechanically accepting empties, more particularly bottles subject to a deposit, with a conveying device and a sensing device associated therewith, a high degree of reliability and a simple design are made possible insofar as such conveying means comprises a conveying passage which comprises two parallel sections which are offset in relation to each other in the direction of conveying and have conveying belts placed side by side and arranged to be driven at different speeds, and an intermediate member extending obliquely in relation to the direction of motion of the conveying belts so as to bridge over a gap between the adjacent conveying belts, an outlet end part of the section with the more rapid conveying belt under it extending past the sensing means, which has a number of vertically offset sensing elements, aligned so as to be generally parallel to the plane of conveyance and adapted to sense the diameter of the empties.

IPC 1-7

**B07C 5/12**

IPC 8 full level

**B07C 5/12** (2006.01)

CPC (source: EP US)

**B07C 5/126** (2013.01 - EP US)

Citation (search report)

- [A] US 4064534 A 19771220 - CHEN TUNG CHANG, et al
- [A] US 3848742 A 19741119 - KRENMAYR W

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DE4214250A1

Designated contracting state (EPC)

AT CH DE FR GB LI NL SE

DOCDB simple family (publication)

**EP 0291741 A2 19881123; EP 0291741 A3 19891123; EP 0291741 B1 19931118**; AT E97348 T1 19931215; DE 3715815 A1 19881124; DE 3715815 C2 19960215; DE 3885648 D1 19931223; NO 166214 B 19910311; NO 166214 C 19910619; NO 882072 D0 19880511; NO 882072 L 19881114; US 4851699 A 19890725

DOCDB simple family (application)

**EP 88106814 A 19880427**; AT 88106814 T 19880427; DE 3715815 A 19870512; DE 3885648 T 19880427; NO 882072 A 19880511; US 18920088 A 19880429