

Title (en)
COLLECTING AND SETTLING DEVICE FOR EMPTY BOTTLES

Publication
EP 0128373 B1 19880107 (DE)

Application
EP 84105351 A 19840511

Priority
DE 3320266 A 19830604

Abstract (en)
[origin: US4674677A] An apparatus that serves to collect and account for empty beverage bottles in beverage stores. A carriage is provided as the receptacle, the bottom of which is automatically displaceable in height by means of a chain drive, operated via light beam emitters and tripping vanes, in accordance with the bottles continually introduced into the receptacle. The bottles, on being introduced, enter an intake rotor having sectors. This rotor alternately changes its direction of rotation after each bottle is introduced, so that the bottles pass into the receptacle in two different directions in alternation via guide chutes. Pyramids of bottles are thereby prevented from forming on one side only. Therefore bottle breakage is avoided as a result of the adaptation of the height of the bottom, and that replacing a full container with an empty one can be accomplished without difficulty. When used with a bottle recognition and evaluation unit, the apparatus can accept bottles and calculate the amount of deposit due.

IPC 1-7
G07F 7/06

IPC 8 full level
G07F 7/06 (2006.01)

CPC (source: EP US)
G07F 7/0609 (2013.01 - EP US)

Cited by
DE102010009306A1; EP0802511A3; DE102010009306B4; DE202014003528U1

Designated contracting state (EPC)
BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0128373 A2 19841219; EP 0128373 A3 19850619; EP 0128373 B1 19880107; CA 1239896 A 19880802; DE 3320266 A1 19841206; DE 3320266 C2 19860123; DE 3468562 D1 19880211; DK 159693 B 19901119; DK 159693 C 19910415; DK 273984 A 19841205; DK 273984 D0 19840601; JP S603798 A 19850110; NO 159564 B 19881003; NO 159564 C 19890111; NO 842220 L 19841205; US 4674677 A 19870623

DOCDB simple family (application)
EP 84105351 A 19840511; CA 455645 A 19840601; DE 3320266 A 19830604; DE 3468562 T 19840511; DK 273984 A 19840601; JP 10874184 A 19840530; NO 842220 A 19840601; US 91457786 A 19861003