

Title (en)  
EMPTY BOTTLE COLLECTOR

Title (de)  
LEERFLASCHEN-RÜCKNAHMEGERÄT

Title (fr)  
APPAREIL DE REPRISE DES BOUTEILLES VIDES

Publication  
**EP 0738409 A1 19961023 (DE)**

Application  
**EP 95904432 A 19941207**

Priority  
• DE 4400251 A 19940107  
• EP 9404074 W 19941207

Abstract (en)  
[origin: EP0802511A2] The collector has a housing with a bottle input chamber with closable insertion aperture, a motorised conveyor passing empties from the input chamber to a bottle magazine (22), a bottle detector and associated controller for the conveyor. There can be a deposit coin output. The insertion chamber has a surface for receiving upright bottles and the magazine has a base at the height of this surface for receiving upright bottles. The magazine is accessible from the stationary insertion chamber via a closable opening. The conveyor has a linearly reciprocally movable transverse slider and the detector has a reciprocally movable sensor slider (44) crossing the path of the transverse slider in the region of the insertion chamber (14). The sensor slider carries sensors (48) for contactless detection of the bottle contours and dia.

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)

Citation (search report)  
See references of WO 9519020A1

Cited by  
DE102010040177A1; EP2256701A2; DE102009026557A1; DE102009026557B4

Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IE IT LI NL SE

DOCDB simple family (publication)  
**EP 0802511 A2 19971022; EP 0802511 A3 19971119; EP 0802511 B1 20020410**; AT E164248 T1 19980415; AT E216109 T1 20020415; CA 2179806 A1 19950713; DE 4443406 A1 19950713; DE 59405496 D1 19980423; DE 59410102 D1 20020516; EP 0738409 A1 19961023; EP 0738409 B1 19980318; ES 2115354 T3 19980616; FI 962760 A0 19960705; FI 962760 A 19960705; JP 2997317 B2 20000111; JP H09507323 A 19970722; NO 314864 B1 20030602; NO 962851 D0 19960705; NO 962851 L 19960822; US 5788045 A 19980804; WO 9519020 A1 19950713

DOCDB simple family (application)  
**EP 97111001 A 19941207**; AT 95904432 T 19941207; AT 97111001 T 19941207; CA 2179806 A 19941207; DE 4443406 A 19941207; DE 59405496 T 19941207; DE 59410102 T 19941207; EP 9404074 W 19941207; EP 95904432 A 19941207; ES 95904432 T 19941207; FI 962760 A 19960705; JP 51829395 A 19941207; NO 962851 A 19960705; US 67618396 A 19960703