

Title (en)

Process of sorting bottles out of a first tray transported on a first conveyor and extraction device suitable for executing the process

Title (de)

Verfahren zum Aussortieren von Fehlflaschen aus einem ersten auf einer ersten Kastenbahn beförderten Flaschenkasten und Entnahmevorrichtung, insbesondere zur Durchführung des Verfahrens

Title (fr)

Procédé de tri de bouteilles à partir de caisses transportées sur un premier convoyeur et dispositif d'extraction pour la réalisation du procédé

Publication

EP 1445038 B1 20070214 (DE)

Application

EP 03028021 A 20031206

Priority

DE 10305072 A 20030207

Abstract (en)

[origin: EP1445038A2] Method for sorting out of faulty bottles from bottle crates placed on a crate transporting belt (1), whereby bottles (12) detected as faulty using a detection arrangement are removed from a crate (10) using a hydraulic gripper and placed in a buffer crate (20). When the buffer crate is full it is replaced on the main belt where it is ejected from the production line. An independent claim is made for a bottle removing arrangement comprising a number of grippers (70), whereby each gripper comprises a hydraulic cylinder drive and each gripper can be individually controlled and individually raised and lowered.

IPC 8 full level

B07C 5/12 (2006.01); **B65B 21/12** (2006.01); **B65B 21/18** (2006.01); **B65B 57/10** (2006.01); **B65G 47/90** (2006.01)

CPC (source: EP)

B07C 5/122 (2013.01); **B65B 21/12** (2013.01); **B65B 21/18** (2013.01); **B65B 57/10** (2013.01)

Cited by

DE102018117379A1; BE1027247B1; CN113385437A; EP2845653A1; CN102583043A; US7611017B2; WO2006005702A1; DE102018117379B4

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1445038 A2 20040811; **EP 1445038 A3 20050713**; **EP 1445038 B1 20070214**; AT E353716 T1 20070315; DE 10305072 B3 20040819; DE 50306490 C5 20141016; DE 50306490 D1 20070329; DK 1445038 T3 20070402

DOCDB simple family (application)

EP 03028021 A 20031206; AT 03028021 T 20031206; DE 10305072 A 20030207; DE 50306490 T 20031206; DK 03028021 T 20031206