

Title (en)

DEVICE AND METHOD FOR INTERVENING ON A CONVEYOR LINE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM EINGREIFEN AUF EINER FÖRDERLEITUNG

Title (fr)

DISPOSITIF ET PROCEDE D'INTERVENTION SUR LIGNE DE CONVOYAGE

Publication

**EP 3152137 A4 20171122 (FR)**

Application

**EP 14894122 A 20140606**

Priority

IB 2014000999 W 20140606

Abstract (en)

[origin: WO2015185957A1] The present invention concerns an intervention device (1) for a conveyor line conveying products to be moved in an upright position, i.e. the largest dimension thereof being perpendicular to the normally horizontal conveying plane, such as bottles of liquid, said device comprising: a detection module (2) for detecting the position of the products in a detection area (3) on the conveyor line; a removal module (4) for gripping and removing products that are lying down from a removal area (5) on the conveying line; and a control module (6) receiving information from the detection module (2) and controlling the removal module (4) accordingly. The invention also concerns the corresponding method.

IPC 8 full level

**B65G 43/00** (2006.01); **B65G 43/08** (2006.01); **B65G 47/256** (2006.01); **B65G 47/91** (2006.01)

CPC (source: EP US)

**B65G 43/08** (2013.01 - EP US); **B65G 47/256** (2013.01 - EP US); **B65G 47/91** (2013.01 - EP US); **B65G 2203/0225** (2013.01 - EP US); **B65G 2203/041** (2013.01 - EP US); **B65G 2203/044** (2013.01 - EP US)

Citation (search report)

- [XI] EP 2479123 A1 20120725 - KRONES AG [DE]
- [X] US 2010174394 A1 20100708 - JENDRICHOWSKI KLAUS [DE]
- [X] JP H0642954 B2 19940608 - SHIBUYA KOGYO CO LTD
- [X] EP 1992561 A2 20081119 - MARCHESINI GROUP SPA [IT]
- [A] EP 2295156 A2 20110316 - KRONES AG [DE]
- [A] DE 4332461 A1 19940825 - KETTNER VERPACKUNGSMASCHF [DE]
- [A] JP H06331333 A 19941202 - TOYO SEIKAN KAISHA LTD
- [A] US 5727132 A 19980310 - ARIMATSU TARO [JP], et al
- See references of WO 2015185957A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2015185957 A1 20151210**; BR 112016028533 A2 20170822; CA 2949877 A1 20151210; CA 2949877 C 20220712; EP 3152137 A1 20170412; EP 3152137 A4 20171122; US 10087017 B2 20181002; US 2017267462 A1 20170921

DOCDB simple family (application)

**IB 2014000999 W 20140606**; BR 112016028533 A 20140606; CA 2949877 A 20140606; EP 14894122 A 20140606; US 201415316342 A 20140606