

Title (en)

MACHINE FOR SORTING FLAT OBJECTS ON EDGE WITH MULTIPLE PICKUP DETECTION

Title (de)

MASCHINE ZUM SORTIEREN FLACHER OBJEKTE MIT MEHRFACHER AUFNAHMEERKENNUNG

Title (fr)

MACHINE DE TRI D'OBJETS PLATS SUR CHANT AVEC DÉTECTION DE PRISE MULTIPLE

Publication

EP 2809600 B1 20151007 (FR)

Application

EP 12819122 A 20121228

Priority

- FR 1250991 A 20120202
- FR 2012053097 W 20121228

Abstract (en)

[origin: WO2013114008A1] The invention relates to a machine (1) for sorting flat objects (2) on edge, comprising an upstream conveyor (10) and a downstream conveyor (30) that convey the flat objects (2) by gripping same, the upstream (10) and downstream (30) conveyors being separated by a detection means (100) comprising an intermediate conveyor (20) provided with intermediate belts (22) which convey said flat objects (2) by gripping same, and each of which is separately combined with a suction means (24, 25) that clamps each flat object (2) against one of said two intermediate belts (22), a means (26) for capturing images of the bases of said flat objects (2) passing between the intermediate belts (2), and a means (4) for analyzing and processing images from among said images in order to detect any possible pickup of multiple flat objects (2).

IPC 8 full level

B65H 3/12 (2006.01); **B65H 3/46** (2006.01); **B65H 5/02** (2006.01); **B65H 7/12** (2006.01)

CPC (source: EP US)

B07C 5/3422 (2013.01 - EP US); **B65H 3/124** (2013.01 - EP US); **B65H 3/46** (2013.01 - EP US); **B65H 5/023** (2013.01 - EP US); **B65H 7/12** (2013.01 - EP US); **B65H 2301/321** (2013.01 - EP US); **B65H 2301/44514** (2013.01 - EP US); **B65H 2701/1916** (2013.01 - EP US)

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 2013114008 A1 20130808; AU 2012367889 A1 20140724; AU 2012367889 B2 20161117; DK 2809600 T3 20151123; EP 2809600 A1 20141210; EP 2809600 B1 20151007; FR 2986447 A1 20130809; FR 2986447 B1 20190412; JP 2015505517 A 20150223; JP 6109855 B2 20170405; PT 2809600 E 20151204; US 2015008165 A1 20150108; US 9180494 B2 20151110

DOCDB simple family (application)

FR 2012053097 W 20121228; AU 2012367889 A 20121228; DK 12819122 T 20121228; EP 12819122 A 20121228; FR 1250991 A 20120202; JP 2014555280 A 20121228; PT 12819122 T 20121228; US 201213824844 A 20121228