

Title (en)
SYSTEM AND METHOD OF AUTOMATIC FEEDER STACK MANAGEMENT

Title (de)
SYSTEM UND VERFAHREN ZUR STAPELVERWALTUNG EINES AUTOMATISCHEN ZUFÜHRERS

Title (fr)
SYSTÈME ET PROCÉDÉ DE GESTION D'EMPILEMENT DE DISPOSITIF D'ALIMENTATION AUTOMATIQUE

Publication
EP 3173364 A1 20170531 (EN)

Application
EP 16197369 A 20140311

Priority

- US 201313797731 A 20130312
- US 201313797698 A 20130312
- US 201313797291 A 20130312
- US 201313801749 A 20130313
- US 201313827122 A 20130314
- EP 14779918 A 20140311

Abstract (en)
Embodiments of a system and method for singulating articles in an automatic stack feeder are disclosed. The automatic stack feeder has a plurality of belts (120) and at least one paddle (150, 160), a vacuum powered singulation device (140) and a sorting section (180). The automatic stack feeder receives a stack of flats from a container (190), moves the stack along the belts toward the vacuum powered singulation device, and the stack is singulated and sorted.

IPC 8 full level
B65H 1/02 (2006.01); **B07C 1/04** (2006.01); **B65H 3/12** (2006.01)

CPC (source: EP)
B07C 1/04 (2013.01); **B65H 1/025** (2013.01); **B65H 3/124** (2013.01); **B65H 7/02** (2013.01); **B65H 2301/321** (2013.01); **B65H 2511/214** (2013.01); **B65H 2513/10** (2013.01); **B65H 2515/30** (2013.01); **B65H 2515/34** (2013.01); **B65H 2701/1916** (2013.01)

Citation (search report)

- [I] US 2009283963 A1 20091119 - FEE KEVIN [US], et al
- [I] US 4819927 A 19890411 - NOGUCHI MASAHIKO [JP], et al
- [A] US 2010032889 A1 20100211 - KRAUSE SIMON JAN [DE], et al
- [A] US 2002153654 A1 20021024 - BLACKWELL WAYNE M [US], et al
- [A] EP 1531137 A1 20050518 - TOSHIBA KK [JP]
- [A] DE 19612567 A1 19971002 - LICENTIA GMBH [DE]

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 2014164719 A1 20141009; EP 2969267 A1 20160120; EP 2969267 A4 20170329; EP 2969267 B1 20180815; EP 3168178 A1 20170517; EP 3168178 B1 20181121; EP 3173364 A1 20170531; EP 3176114 A1 20170607; EP 3176114 B1 20230913; JP 2016515046 A 20160526; JP 2018135217 A 20180830; JP 2019135192 A 20190815; JP 2019135193 A 20190815; JP 2019151490 A 20190912; JP 2019163171 A 20190926; JP 6306682 B2 20180404; JP 6901202 B2 20210714; JP 6901203 B2 20210714; JP 6901204 B2 20210714; JP 6935922 B2 20210915

DOCDB simple family (application)
US 2014023300 W 20140311; EP 14779918 A 20140311; EP 16197369 A 20140311; EP 16197373 A 20140311; EP 16197418 A 20140311; JP 2016501202 A 20140311; JP 2018041697 A 20180308; JP 2019073823 A 20190408; JP 2019073824 A 20190408; JP 2019073825 A 20190408; JP 2019073826 A 20190408