

Title (en)

FLAT SORTER OVER AT LEAST TWO LEVELS

Title (de)

FLÄCHENSORTER ÜBER MINDESTENS ZWEI EBENEN

Title (fr)

TRIEUSE À PLAT SUR AU MOINS DEUX PLANS

Publication

**EP 3841039 A1 20210630 (DE)**

Application

**EP 19759510 A 20190806**

Priority

- EP 18190511 A 20180823
- EP 2019071113 W 20190806

Abstract (en)

[origin: WO2020038651A1] The invention relates to a method for ejecting an item of piece goods (7) from a load-supporting means (8) which can be driven individually and in a driverless, automated manner on a surface (1, 1), comprising the following method steps: • - carrying out individual and driverless, automated transport of the piece goods (7) on the load-supporting means (8); • - ejecting the item of piece goods (7) downwards through an ejection region (40) situated in a bottom region (41) of the load-supporting means (8).

IPC 8 full level

**B65G 1/137** (2006.01); **B07C 3/08** (2006.01); **B65G 1/04** (2006.01)

CPC (source: EP US)

**B07C 5/36** (2013.01 - EP); **B65G 1/0464** (2013.01 - EP); **B65G 1/0478** (2013.01 - EP US); **B65G 1/0492** (2013.01 - US); **B65G 1/1376** (2013.01 - EP); **B65G 37/02** (2013.01 - US); **B65G 2207/46** (2013.01 - EP)

Citation (examination)

CN 207576955 U 20180706 - BEIJING JINGDONG SHANGKE INFORMATION TECHNOLOGY CO LTD, et al

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3613681 A1 20200226**; CN 112601707 A 20210402; CN 112601707 B 20230912; CN 112601708 A 20210402; EP 3841038 A1 20210630; EP 3841039 A1 20210630; US 11524845 B2 20221213; US 2021198038 A1 20210701; WO 2020038651 A1 20200227; WO 2020038714 A1 20200227

DOCDB simple family (application)

**EP 18190511 A 20180823**; CN 201980055046 A 20190712; CN 201980055397 A 20190806; EP 19746017 A 20190712; EP 19759510 A 20190806; EP 2019068877 W 20190712; EP 2019071113 W 20190806; US 201917270557 A 20190806