

Title (en)
SHEET-TYPE MEDIUM STACKING DEVICE

Title (de)
VORRICHTUNG ZUM STAPELN VON BLATTARTIGEN MEDIEN

Title (fr)
DISPOSITIF D'EMPILEMENT DE SUPPORT DE TYPE FEUILLE

Publication
EP 2919206 A1 20150916 (EN)

Application
EP 13853049 A 20130703

Priority
• CN 201210447728 A 20121109
• CN 2013078732 W 20130703

Abstract (en)
A sheet-type medium processing technique, in particular a piece-by-piece end-aligning and stacking device for a paper medium, the device comprising a conveying mechanism for a single sheet of paper medium, an upper conveyer belt (153), an arc-shaped stacking plate (18, 19, 25), a movable blocking mechanism (20), a sensor device (17), and a control portion; at least one pair of convex ribs are formed on the two sides of the upper conveyer belt (153) on a section of the arc-shaped surface of the arc-shaped stacking board (18, 19, 25) near the conveying mechanism; the convex ribs have a width smaller than the minimum dimension of the paper medium in a direction perpendicular to the conveying direction. By adding convex ribs on the two sides of the arc-shaped stacking plate (18, 19, 25) corresponding to the position of the upper conveyer belt (153), the paper medium to be clamped and conveyed forms a V-shape, greatly increasing the rigidity of the paper medium, thus effectively solving the problem of blockage due to the presence of slit at the end of the paper medium, and also solving the problem of blockage caused by soft and old medium folding and arching up.

IPC 8 full level
G07D 13/00 (2006.01)

CPC (source: EP US)
B65H 5/023 (2013.01 - EP US); **B65H 5/26** (2013.01 - EP US); **B65H 29/18** (2013.01 - EP US); **B65H 29/38** (2013.01 - US); **B65H 29/52** (2013.01 - EP US); **B65H 29/70** (2013.01 - EP US); **B65H 31/02** (2013.01 - EP US); **B65H 31/26** (2013.01 - US); **B65H 31/3027** (2013.01 - EP US); **B65H 31/36** (2013.01 - EP US); **B65H 43/00** (2013.01 - US); **G07D 11/14** (2018.12 - EP US); **B65H 2301/4212** (2013.01 - EP US); **B65H 2301/4213** (2013.01 - EP US); **B65H 2301/42194** (2013.01 - EP US); **B65H 2301/4493** (2013.01 - EP US); **B65H 2301/51214** (2013.01 - EP US); **B65H 2403/942** (2013.01 - EP US); **B65H 2404/268** (2013.01 - EP US); **B65H 2405/1114** (2013.01 - EP US); **B65H 2405/1124** (2013.01 - EP US); **B65H 2405/1412** (2013.01 - EP US); **B65H 2408/13** (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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2919206 A1 20150916; **EP 2919206 A4 20170628**; **EP 2919206 B1 20180509**; AU 2013344144 A1 20150507; AU 2013344144 B2 20170302; CL 2015001185 A1 20150731; CN 102968851 A 20130313; TR 201806869 T4 20180621; US 2015284208 A1 20151008; WO 2014071744 A1 20140515; ZA 201503190 B 20160127

DOCDB simple family (application)
EP 13853049 A 20130703; AU 2013344144 A 20130703; CL 2015001185 A 20150505; CN 201210447728 A 20121109; CN 2013078732 W 20130703; TR 201806869 T 20130703; US 201314436866 A 20130703; ZA 201503190 A 20150508