

Title (en)

PAPER FEEDING DEVICE AND PAPER FEEDING METHOD

Title (de)

PAPIERZUFUHRVORRICHTUNG UND PAPIERZUFUHRVERFAHREN

Title (fr)

DISPOSITIF D'ALIMENTATION EN PAPIER ET PROCÉDÉ D'ALIMENTATION EN PAPIER

Publication

EP 3012215 A4 20160720 (EN)

Application

EP 14851356 A 20140924

Priority

- JP 2013207835 A 20131003
- JP 2014075252 W 20140924

Abstract (en)

[origin: EP3012215A1] Provided are a paper feeding device that can stably feed one sheet of paper at a time to a paper feeding unit hopper of a printer or die cutting device. A paper feeding device (1) comprising a paper feeding tray (10) on which a plurality of sheets (60) are stacked in the vertical direction, a sheet feeding means (20) that sends, in the horizontal direction, the sheet (60) that is located at the top of the plurality of sheets (60) stacked on the paper feeding tray (10), and a pair of feeding rollers (30) that deliver the sheet (60) by grasping the leading edge of the sheet (60) that is sent by the sheet feeding means (20), wherein the feeding rollers (30) are variable speed rollers for which the circumferential speed can be increased and decreased while sending one sheet (60) from the leading edge to the trailing edge.

IPC 8 full level

B65H 1/30 (2006.01); **B65H 3/08** (2006.01); **B65H 5/06** (2006.01); **B65H 5/24** (2006.01); **B65H 7/02** (2006.01); **B65H 11/00** (2006.01)

CPC (source: EP US)

B65H 1/30 (2013.01 - EP US); **B65H 3/0676** (2013.01 - US); **B65H 3/0825** (2013.01 - EP US); **B65H 5/021** (2013.01 - US); **B65H 5/062** (2013.01 - EP US); **B65H 5/24** (2013.01 - EP US); **B65H 7/02** (2013.01 - EP US); **B65H 11/002** (2013.01 - EP US); **B65H 2511/30** (2013.01 - EP US); **B65H 2513/11** (2013.01 - EP US); **B65H 2513/20** (2013.01 - EP US); **B65H 2701/1764** (2013.01 - EP US); **B65H 2801/21** (2013.01 - EP US)

Citation (search report)

- [A] EP 1975099 A2 20081001 - KOENIG & BAUER AG [DE]
- [A] WO 2010105762 A1 20100923 - BOBST SA [CH], et al
- [A] US 5613675 A 19970325 - KRUEGER MICHAEL [DE], et al
- [A] EP 0238020 A2 19870923 - MITSUBISHI HEAVY IND LTD [JP]
- See references of WO 2015050021A1

Cited by

DE102018201917B3; DE102019122496A1; IT201800006896A1; DE102019122496B4

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 3012215 A1 20160427; **EP 3012215 A4 20160720**; **EP 3012215 B1 20171122**; CN 105452134 A 20160330; CN 105452134 B 20180112; JP 2015071479 A 20150416; JP 6378476 B2 20180822; KR 101709047 B1 20170221; KR 20160027069 A 20160309; US 2016176666 A1 20160623; WO 2015050021 A1 20150409

DOCDB simple family (application)

EP 14851356 A 20140924; CN 201480043204 A 20140924; JP 2013207835 A 20131003; JP 2014075252 W 20140924; KR 20167002441 A 20140924; US 201414909083 A 20140924