

Title (en)

Device for separating individual flat, flexible objects from the underside of a stack of such objects

Title (de)

Vorrichtung zum Abtrennen von einzelnen flachen, biegbaren Gegenständen von der Unterseite eines Stapels solcher Gegenstände

Title (fr)

Dispositif de séparation d'objets plats pliables individuels de la face inférieure d'une pile de tels objets

Publication

EP 2690040 A3 20160106 (DE)

Application

EP 13405084 A 20130723

Priority

CH 11822012 A 20120727

Abstract (en)

[origin: EP2690040A2] The device (1) has a stacking area (31) that is provided with a support region (14). A roller arrangement is produced from several rollers (9) for supporting a stack (30) from below in the support region. A separating and holding unit (4) is used for separating the objects from the underside of the stack in the support region. An onward conveying device (6) is used for conveying the separated objects. A supporting and stopping device (32) is provided with a supporting and stopping unit (33) positioned in the support region in a holding position between stack and rollers. An independent claim is included for a method for separating individual flat, bendable objects from underside of stack.

IPC 8 full level

B65H 3/08 (2006.01); **B65H 3/32** (2006.01); **B65H 3/50** (2006.01); **B65H 5/12** (2006.01)

CPC (source: EP US)

B65H 3/063 (2013.01 - US); **B65H 3/085** (2013.01 - US); **B65H 3/0858** (2013.01 - US); **B65H 3/0866** (2013.01 - EP US); **B65H 3/32** (2013.01 - EP US); **B65H 3/50** (2013.01 - EP US); **B65H 5/12** (2013.01 - EP US); **B65H 2301/42322** (2013.01 - US); **B65H 2301/4233** (2013.01 - EP US); **B65H 2301/44714** (2013.01 - EP US); **B65H 2301/44732** (2013.01 - EP US); **B65H 2403/512** (2013.01 - EP US)

Citation (search report)

- [AD] WO 2008000099 A1 20080103 - FERAG AG [CH], et al
- [A] DE 3905214 A1 19900823 - FOCKE & CO [DE]
- [A] JP H0692535 A 19940405 - BALDWIN NIPPON KK

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 2690040 A2 20140129; **EP 2690040 A3 20160106**; **EP 2690040 B1 20170517**; AU 2013207661 A1 20140213; CA 2820009 A1 20140127; CH 706769 A1 20140131; CN 103708251 A 20140409; IN 3021CH2013 A 20150731; US 2014027970 A1 20140130; US 9051142 B2 20150609

DOCDB simple family (application)

EP 13405084 A 20130723; AU 2013207661 A 20130722; CA 2820009 A 20130704; CH 11822012 A 20120727; CN 201310322718 A 20130729; IN 3021CH2013 A 20130705; US 201313946278 A 20130719