

Title (en)  
BLANK SUPPLY DEVICE AND BLANK SUPPLY METHOD USING SAME

Title (de)  
ROHLINGZUFÜHRUNGSVORRICHTUNG UND ROHLINGZUFÜHRUNGSVERFAHREN DAMIT

Title (fr)  
DISPOSITIF D'ACHEMINEMENT DE DÉCOUPES ET PROCÉDÉ D'ACHEMINEMENT DE DÉCOUPES L'UTILISANT

Publication  
**EP 3176097 A1 20170607 (EN)**

Application  
**EP 15836822 A 20150828**

Priority  
• JP 2014072547 W 20140828  
• JP 2015074503 W 20150828

Abstract (en)  
A supply apparatus (8) adapted to supply blank (10) used to form a box (14) of a package to a packaging machine (12), the supply apparatus includes a transfer path (26) adapted to transfer the blank piece by piece along a transfer surface (40), and a pair of rollers (30) rotatably placed on opposite sides of the transfer surface and provided with pressing regions (46, 52) on an outer circumferential surfaces (42c, 44c) to feed the blank while pressing a strip region (24) of the blank corresponding to a square edge (16) of the box, wherein one (42) of the pair of rollers has a large number of blades (48) in the pressing region of the roller, and when the blank passes between the pair of rollers, the blades form a large number of cut lines (58, 90, 94, 96) in the strip region of the blank to reduce bending strength of the strip region.

IPC 8 full level  
**B65B 19/22** (2006.01); **B65B 43/00** (2006.01); **B65B 61/02** (2006.01)

CPC (source: EP KR RU)  
**B31B 50/256** (2017.08 - EP); **B31B 50/26** (2017.08 - EP); **B31B 50/28** (2017.08 - EP); **B31F 1/10** (2013.01 - EP); **B65B 19/22** (2013.01 - EP KR); **B65B 19/228** (2013.01 - EP RU); **B65B 43/10** (2013.01 - RU); **B65B 43/22** (2013.01 - EP); **B65B 43/225** (2013.01 - EP KR); **B65B 61/02** (2013.01 - EP KR); **B65B 61/06** (2013.01 - RU)

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 3176097 A1 20170607**; **EP 3176097 A4 20180919**; CN 107074382 A 20170818; CN 107074382 B 20200303; EP 3753854 A1 20201223; JP 6295336 B2 20180314; JP WO2016031984 A1 20170427; KR 101979129 B1 20190515; KR 20170047350 A 20170504; RU 2017109963 A 20181001; RU 2672343 C2 20181113; WO 2016031010 A1 20160303; WO 2016031984 A1 20160303

DOCDB simple family (application)  
**EP 15836822 A 20150828**; CN 201580055859 A 20150828; EP 20190039 A 20150828; JP 2014072547 W 20140828; JP 2015074503 W 20150828; JP 2016545653 A 20150828; KR 20177008436 A 20150828; RU 2017109963 A 20150828