

Title (en)

Apparatus and method to make blanks

Title (de)

Vorrichtung und Verfahren zur Herstellung von Zuschnitten

Title (fr)

Appareil et procédé pour la fabrication d'ébauches

Publication

**EP 2913167 A1 20150902 (EN)**

Application

**EP 15157043 A 20120124**

Priority

- IT MI20110091 A 20110126
- EP 12707897 A 20120124

Abstract (en)

Apparatus (20) to make blanks (30; 130) starting from a sheet (5) of material fed by feed means (1, 2) in a direction of feed (A), comprising etching and cutting means (3, 4) to perform etchings (31; 131) and/or longitudinal cuts (32; 132, 135) on the sheet (5), cropping means (8) that allow to shear the sheet (5) so as to separate the blank (30; 130) from it.

IPC 8 full level

**B26D 3/08** (2006.01); **B26D 7/26** (2006.01); **B26D 7/32** (2006.01); **B26D 9/00** (2006.01); **B31B 1/20** (2006.01); **B31B 1/25** (2006.01); **B31B 50/20** (2017.01); **B31B 50/25** (2017.01)

CPC (source: CN EP)

**B26D 3/08** (2013.01 - CN EP); **B26D 5/00** (2013.01 - EP); **B26D 7/26** (2013.01 - CN EP); **B26D 7/2614** (2013.01 - CN EP); **B26D 7/2642** (2013.01 - CN EP); **B26D 7/32** (2013.01 - CN EP); **B26D 9/00** (2013.01 - CN EP); **B26D 1/085** (2013.01 - CN EP); **B26D 1/405** (2013.01 - CN EP); **B26D 5/00** (2013.01 - CN); **B26D 7/0633** (2013.01 - CN EP); **B26D 2007/2607** (2013.01 - CN EP); **B26D 2011/005** (2013.01 - CN EP); **B31B 50/146** (2017.07 - EP); **B31B 50/254** (2017.07 - EP)

Citation (search report)

- [XY] DE 2447916 A1 19750703 - GD SPA
- [Y] CN 201685489 U 20101229 - GUANGZHOU KESHENGLONG CARTON PACKING MACHINERY CO LTD
- [A] DE 4421697 A1 19960104 - KOCHER & BECK GMBH & CO ROTATI [DE]
- [A] EP 1103369 A2 20010530 - FOCKE & CO [DE]
- [A] US 2004177737 A1 20040916 - ADAMI MAURO [IT]
- [A] EP 0955156 A1 19991110 - ENGICO SRL [IT]

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

DOCDB simple family (publication)

**WO 2012101498 A1 20120802**; CN 103534069 A 20140122; CN 103534069 B 20151125; CN 105128071 A 20151209; CN 105128071 B 20181109; EP 2668009 A1 20131204; EP 2668009 B1 20160330; EP 2913167 A1 20150902; EP 3061579 A1 20160831; EP 3061579 B1 20181128; EP 3061580 A1 20160831; IT 1403906 B1 20131108; IT MI20110091 A1 20120727; PL 2668009 T3 20161130; PL 3061579 T3 20190628

DOCDB simple family (application)

**IB 2012000093 W 20120124**; CN 201280015434 A 20120124; CN 201510592650 A 20120124; EP 12707897 A 20120124; EP 15157043 A 20120124; EP 16163409 A 20120124; EP 16163432 A 20120124; IT MI20110091 A 20110126; PL 12707897 T 20120124; PL 16163409 T 20120124