

Title (en)

WASTE EJECTION UNIT WITH EASY TOOL CHANGING FOR A PACKAGING PRODUCTION MACHINE

Title (de)

ABFALLAUSWURFEINHEIT MIT ERLEICHTERTEM WERKZEUGWECHSEL FÜR EINE MASCHINE ZUR HERSTELLUNG VON VERPACKUNGEN

Title (fr)

UNITÉ D'ÉJECTION DE DÉCHETS À CHANGEMENT D'OUTIL FACILITÉ POUR UNE MACHINE DE PRODUCTION D'EMBALLAGES

Publication

EP 2429782 B1 20160720 (FR)

Application

EP 10721979 A 20100512

Priority

- EP 2010002922 W 20100512
- EP 09006437 A 20090513
- EP 10721979 A 20100512

Abstract (en)

[origin: WO2010130429A1] The invention relates to a waste ejection unit in a machine (1) for producing packaging, positioned downstream from a cutting unit (3) for cutting one or more flat substrates (4), including a frame (16) and two mutually engaging rotary tools (17, 18), at least one of the two tools (17, 18) being formed with a mandrel (27) and a removable sleeve (28), and capable of being inserted (I), locked and rotated by the mandrel (27).

IPC 8 full level

B26D 7/18 (2006.01); **B31B 50/20** (2017.01); **B26D 7/00** (2006.01)

CPC (source: EP KR US)

B26D 5/00 (2013.01 - KR); **B26D 7/18** (2013.01 - KR); **B26D 7/1836** (2013.01 - EP US); **B65H 35/08** (2013.01 - KR); **B26D 7/00** (2013.01 - EP US); **Y10T 83/207** (2015.04 - EP US); **Y10T 83/2096** (2015.04 - EP US); **Y10T 83/2098** (2015.04 - EP US); **Y10T 83/4841** (2015.04 - EP US); **Y10T 83/9466** (2015.04 - EP US)

Citation (examination)

US 3320864 A 19670523 - PETER ZERNOV

Cited by

US11485101B2; US11911992B2; US10642551B2; US11807480B2; US11449290B2; US11520544B2; US11907595B2

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010130429 A1 20101118; CN 102413993 A 20120411; CN 102413993 B 20150225; EP 2429782 A1 20120321; EP 2429782 B1 20160720; ES 2587203 T3 20161021; JP 2012526009 A 20121025; JP 5580884 B2 20140827; KR 101419989 B1 20140715; KR 20120013395 A 20120214; US 2012055301 A1 20120308; US 8783144 B2 20140722

DOCDB simple family (application)

EP 2010002922 W 20100512; CN 201080019537 A 20100512; EP 10721979 A 20100512; ES 10721979 T 20100512; JP 2012510163 A 20100512; KR 20117027650 A 20100512; US 201013318643 A 20100512