Title (en)
METHOD FOR FASTENING WRAPPING SHEETS IN PULP-BALE PACKAGING, AND FASTENING ELEMENT

Title (de)
VERFAHREN ZUR BEFESTIGUNG VON UMSCHLAGBÖGEN BEI DER ZELLSTOFFBALLENVERPACKUNG UND BEFESTIGUNGSELEMENT

Title (fr)
PROCÉDÉ POUR LA FIXATION DE FEUILLES DE MANUTENTION POUR L'EMBALLAGE EN PAQUET DE CELLULOSE ET ÉLÉMENT DE FIXATION

Publication
EP 2601104 B1 20140702 (DE)

Application
EP 11748542 A 20110720

Priority
• AT 12942010 A 20100802
• AT 2011000308 W 20110720

Abstract (en)
[origin: WO2012016256A1] The invention relates to a method for fastening wrapping sheets made of paper or cellulose in pulp-bale packaging, wherein a pulp bale (1) is wrapped using a single-piece or two-part wrapping sheet made of paper or using a lower sheet (3) made of cellulose and an upper sheet (2) made of cellulose. The invention is characterized primarily in that, at the location of overlap of the two paper or cellulose sheets (2, 3), or at the end fold (9) of the wrapping sheets (2, 3) made of cellulose or paper, one or more clip(s) (4), consisting of a material which can decompose, without leaving behind any harmful components, as bale processing continues, is or are introduced into the bale (1). This makes it possible to avoid a costly binding machine or paper-strapping machine, and also does away with the outlay required for disposing of the wire by the end user. The invention also relates to a fastening device. This is characterized in that it consists of a material which can decompose, without leaving behind any harmful components, as bale processing continues, for example of paper or cellulose.

IPC 8 full level
B65B 27/12 (2006.01); **B65B 51/04** (2006.01); **B65D 65/00** (2006.01); **B65D 65/46** (2006.01); **B65D 85/07** (2017.01)

CPC (source: EP US)
B65B 27/125 (2013.01 - EP US); **B65B 51/04** (2013.01 - EP US); **B65D 65/00** (2013.01 - US); **B65D 65/46** (2013.01 - EP US); Y10S 411/905 (2013.01 - EP US); Y10T 24/1402 (2015.01 - EP US); Y10T 24/209 (2015.01 - EP US)

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 2012016256 A1 20120209; AT 510223 A1 20120215; AT 510223 B1 20120915; BR 112013002287 A2 20160524; BR 112013002287 B1 20190813; CA 2807182 A1 20120209; CA 2807182 C 20180626; CL 2013000309 A1 20130712; CN 103052566 A 20130417; CN 103052566 B 20150401; EP 2601104 A1 20130612; EP 2601104 B1 20140702; ES 2508641 T3 20141016; JP 2013534196 A 20130902; JP 5886852 B2 20160316; PT 2601104 E 20141006; US 2013126376 A1 20130523; US 9394091 B2 20160719

DOCDB simple family (application)
AT 2011000308 W 20110720; AT 12942010 A 20100802; BR 112013002287 A 20110720; CA 2807182 A 20110720; CL 2013000309 A 20130130; CN 201180037740 A 20110720; EP 11748542 A 20110720; ES 11748542 T 20110720; JP 2013522051 A 20110720; PT 11748542 T 20110720; US 201113813747 A 20110720