

Title (en)

Method for manufacturing square bottom paper bag with handle from a web

Title (de)

Verfahren zur Herstellung von Papiersäcken mit viereckigem Boden und Tragegriff aus einer Bahn

Title (fr)

Méthode de fabrication de sacs en papier à fond carré avec poignée à partir d'un film continu

Publication

EP 1359003 B1 20090318 (EN)

Application

EP 02292803 A 20021108

Priority

JP 2002055262 A 20020301

Abstract (en)

[origin: EP1359003A1] The invention concerns a rotary type bag manufacturing machine which feeds continuously material paper (R) to form angulated bottom bags (B) with handles (T) in which a top edge (S2) with the handles (T) pasted can be folded toward an inside in the manufacturing process. Material paper (R) wound in a roll is continuously fed out. After forming lateral slits (15) and Letter-J-shaped nicks (16) on the material paper (R) by an incising device (4), reinforcing papers (T1) for handles (T) formed by a handle forming device 2 are pasted. Then, a cutting device (6) cuts off the material paper (R) on a cut line aligned with the lateral slits (15) to thereby form the material paper (R) with the handles (T) which remains unfolded in a plane. A cut end portion (S2) with each handle (T) pasted is folded toward an inside to invisibly cover each reinforcing paper (T1) for the handle (T). Thereafter, angulated bottom paper bags (B) are formed through a paper tube forming process and a bottom folding process. <IMAGE>

IPC 8 full level

B31B 19/86 (2006.01); **B65D 30/12** (2006.01); **B31B 29/00** (2006.01); **B31B 37/14** (2006.01); **B31B 37/26** (2006.01); **B31B 37/60** (2006.01); **B31B 37/74** (2006.01); **B31B 50/16** (2017.01); **B31B 50/22** (2017.01); **B31B 50/36** (2017.01); **B31B 50/62** (2017.01); **B31B 50/86** (2017.01); **B65D 33/12** (2006.01)

CPC (source: EP US)

B31B 70/00 (2017.07 - EP); **B31B 70/866** (2017.07 - EP US); **B31B 2150/00** (2017.07 - EP); **B31B 2160/10** (2017.07 - EP); **B31B 2160/20** (2017.07 - EP)

Cited by

CN103072307A; CN111890733A; CN103753857A; CN112339343A; CN104097351A; CN109159475A; CN109795160A; WO2009122451A1

Designated contracting state (EPC)

DE IT

DOCDB simple family (publication)

EP 1359003 A1 20031105; **EP 1359003 B1 20090318**; DE 60231597 D1 20090430; JP 2003251716 A 20030909; JP 3733589 B2 20060111

DOCDB simple family (application)

EP 02292803 A 20021108; DE 60231597 T 20021108; JP 2002055262 A 20020301