



(43) International Publication Date
21 September 2017 (21.09.2017)

- (51) International Patent Classification:
B31B 70/88 (2017.01) *B65D 75/62* (2006.01)
B65D 33/36 (2006.01)
- (21) International Application Number:
PCT/EP2017/053241
- (22) International Filing Date:
14 February 2017 (14.02.2017)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
16160911.0 17 March 2016 (17.03.2016) EP
- (71) Applicant: ECOLEAN AB [SE/SE]; Box 812, 251 08
Helsingborg (SE).
- (72) Inventors: RODMAN, Lars; Kanslersvägen 8, 234 31
Björred (SE). NILSSON, Lars Peter; Hellebakken 31,
DK-3150 Hellebaek (DK).
- (74) Agent: AWAPATENT AB; Box 5117, 200 71 Malmö
(SE).
- (81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA,
MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG,
NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS,
RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY,
TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
ZA, ZM, ZW.

- (84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: METHOD AND APPARATUS FOR PROVIDING A WEB OF A FLEXIBLE, PLASTIC PACKAGING MATERIAL
AND FLEXIBLE POUCH PACKAGE

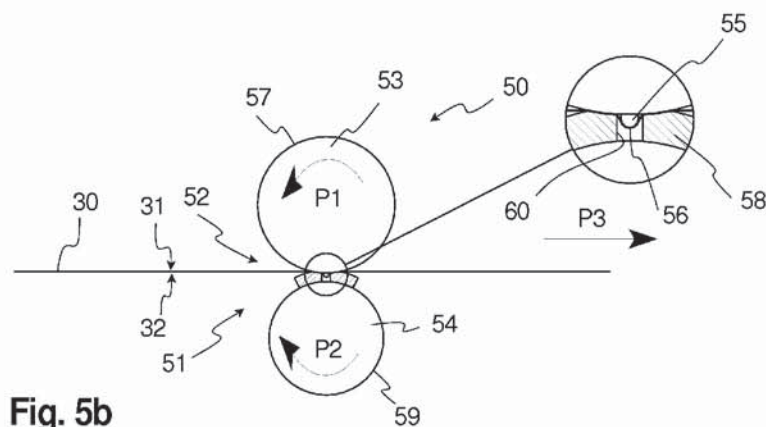


Fig. 5b

(57) Abstract: A method for providing a web (30) of flexible, plastic packaging material with a succession of dimples (9) forming indentations for straw insertion, comprising feeding the web (30) of packaging material through a first nip (52) defined by a first pair (51) of rotating rollers, and cyclically engaging the web (30) from a first side (31) by a protrusion (55) supported by a first roller (53) of said first pair (51) of rotating rollers for forming the succession of dimples (9) in the web (30) of packaging material. The invention also relates to a corresponding apparatus and a flexible pouch package comprising a dimple.