



(86) Date de dépôt PCT/PCT Filing Date: 2014/12/21
(87) Date publication PCT/PCT Publication Date: 2016/06/30
(85) Entrée phase nationale/National Entry: 2017/06/21
(86) N° demande PCT/PCT Application No.: IL 2014/051114
(87) N° publication PCT/PCT Publication No.: 2016/103243

(51) Cl.Int./Int.Cl. *C08J 9/35* (2006.01),
B32B 27/20 (2006.01), *E04F 15/18* (2006.01)

(71) Demandeur/Applicant:
PALZIV EIN HANATZIV AGRICULTURAL
COOPERATIVE SOCIETY LTD., IL

(72) Inventeurs/Inventors:
SALADINO, SAM, CA;
TZUR, ZEEV, IL;
ZUR, BARUCH, IL

(74) Agent: RIDOUT & MAYBEE LLP

(54) Titre : COMPOSITE FORME D'UNE FEUILLE DE MOUSSE POLYMERE ET D'UNE COUCHE BARRIERE
(54) Title: POLYMER FOAM SHEET AND BARRIER LAYER COMPOSITE

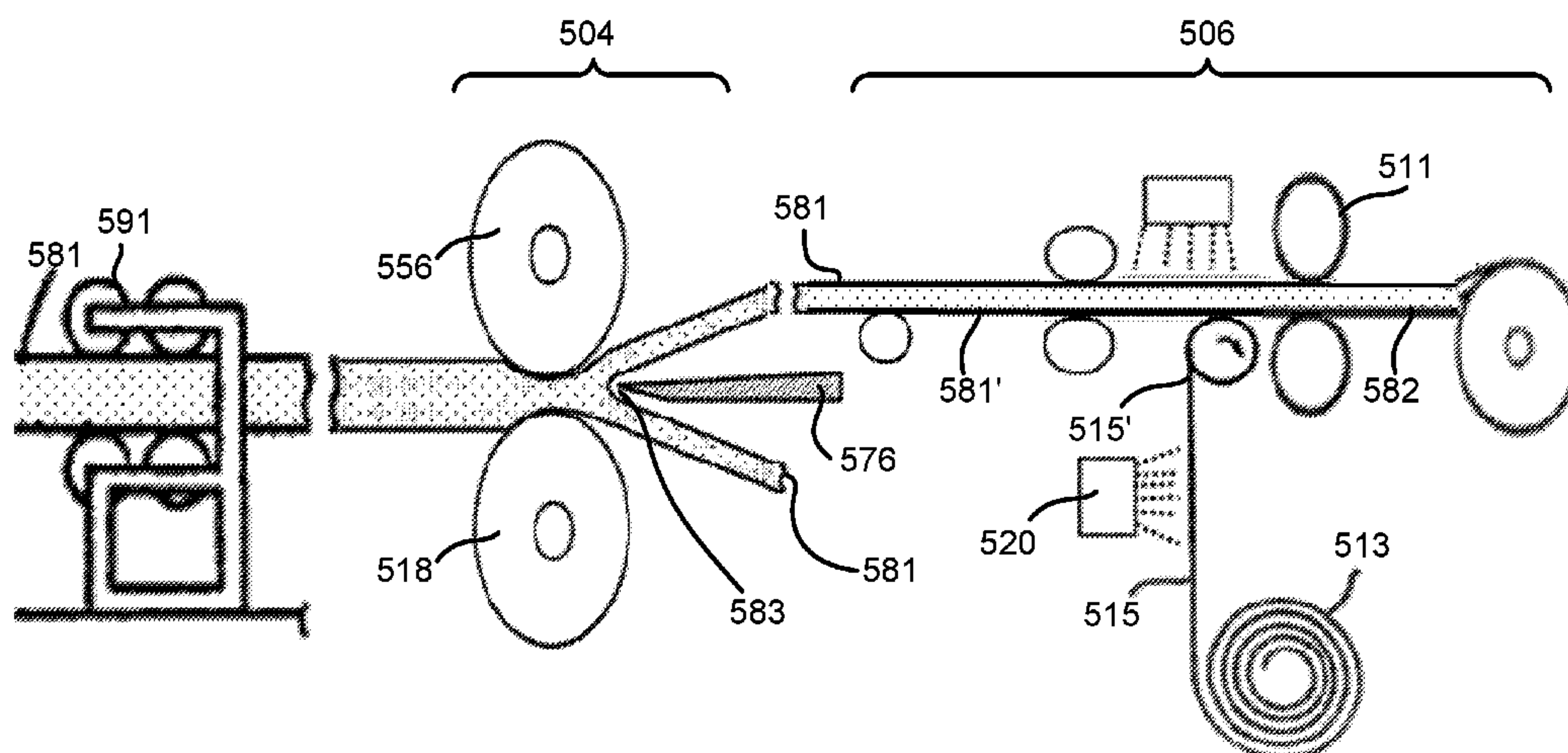


FIG. 3

(57) Abrégé/Abstract:

A moisture barrier layer-foamed polymeric composite sheet underlayment article comprising a foamed polymeric sheet and a moisture barrier layer adhered thereto is disclosed. In one aspect, cork particles are present in the composite.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau(10) International Publication Number
WO 2016/103243 A1(43) International Publication Date
30 June 2016 (30.06.2016)

(51) International Patent Classification:

C08J 9/35 (2006.01) *B32B 27/20* (2006.01)
E04F 15/18 (2006.01)

(21) International Application Number:

PCT/IL2014/051114

(22) International Filing Date:

21 December 2014 (21.12.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant: **PALZIV GROUP** [IL/IL]; Ein Hanatziv,
1080500 M.P. Emek Bet Shean (IL).(72) Inventors: **SALADINO, Sam**; . (CA). **TZUR, Zeev**; .
(IL). **ZUR, Baruch**; . (IL).(74) Agent: **MORAG-SELA**; Reinhold Cohn And Partners,
26A HaBarzel St., 6971037 Tel Aviv (IL).(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, 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, KN, KP, KR,
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

POLYMER FOAM SHEET AND BARRIER LAYER COMPOSITE

Technical Field

[0001] This invention generally relates to a foamed polymeric sheet and moisture barrier layer composite and methods of continuously forming and using same as an underlayment for flooring. In one aspect, the composite comprises cork particles.

BACKGROUND

[0002] In the construction of buildings having subfloors, it is known to install an underlayment. Underlayments can include one or more polyethylene films or sheets that may be foamed.

[0003] For producing a foamed sheet, a resin composition in a die is forced into a narrow passage having a small cross-sectional area. Strong shearing force acting the resin or stagnation occurring at the die makes the manufacture of thin foam sheets difficult, e.g., less than 8 mm.

[0004] Likewise, a partially foamed product extruded from a die may be bent or bowed, or its surface may be cracked, thus causing a difficulty in the manufacture of foams, especially thin foam sheets and especially manufacturing of such forms continuously.

[0005] The prior art does not reasonably disclose a continuous method for cross-sectionally cutting (profile cut) a compressible or cellular polyolefin polymer material and laminating with a moisture barrier layer on at least one of the surfaces resulting from the cutting. Nor does the prior art disclose a composite comprising a profile cut thin polyolefin polymer foam with cork particles process to include a moisture barrier layer.

SUMMARY

[0006] In accordance with a first embodiment of the present disclosure, a composite is provided. The composite comprising a foamed polymeric sheet having a first surface and a second surface; and a moisture barrier layer adjacent at least one of the first and the second

