

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
20 October 2022 (20.10.2022)



(10) International Publication Number
WO 2022/219143 A1

(51) International Patent Classification:

B32B 27/08 (2006.01) **B32B 7/027** (2019.01)
B32B 27/32 (2006.01)

(21) International Application Number:

PCT/EP2022/060090

(22) International Filing Date:

14 April 2022 (14.04.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2105310.3 14 April 2021 (14.04.2021) GB
2111513.4 11 August 2021 (11.08.2021) GB

(71) Applicant: **INNOVIA FILMS LTD** [GB/GB]; Station Road, Wigton CA7 9BG (GB).

(72) Inventors: **SINGH, Shalendra**; c/o Station Road, Wigton Cumbria CA7 9BG (GB). **LEWUCHA, Cezary**; c/o Station Road, Wigton Cumbria CA7 9BG (GB).

(74) Agent: **BRAND MURRAY FULLER LLP**, 50 Eastcastle Street, London W1W 8EA (GB).

(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, IT, JM, JO, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(54) Title: NAKED COLLATION PACKAGE FILM

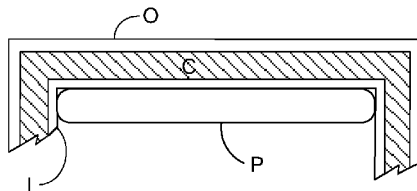


Figure 1

(57) Abstract: A naked collation film comprises a core layer (C), an inner sealing layer (I) of polyolefinic material and an outer sealing layer (O) of polyolefin material, each sealing layer comprising at least two, and preferably three, polyolefins selected from C4, and at least one of C2 and C3 polyolefins. At least one of the inner layer and the outer layer has at least one of: i. a C4 content of greater than about 10mol%; ii. a C4/C2 molar ratio of at least about 1.2; and/or iii. a C4/C3 molar ratio of at least about 0.15. The collation film is preferably non-blocking and has a large incompatibility window with the individually wrapped packages (P) of a naked collation package and has a strong optical performance.

WO 2022/219143 A1