

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
21 March 2019 (21.03.2019)



(10) International Publication Number
WO 2019/055274 A1

(51) International Patent Classification:

G02B 1/10 (2015.01) B32B 27/00 (2006.01)
G02B 5/20 (2006.01)

(21) International Application Number:

PCT/US2018/049685

(22) International Filing Date:

06 September 2018 (06.09.2018)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

15/705,689 15 September 2017 (15.09.2017) US

(71) Applicant: **SOUTHWALL TECHNOLOGIES INC.**
[US/US]; 3788 Fabian Way, Palo Alto, CA 94303 (US).

(72) Inventors: **KROGMAN, Kevin, C.**; 4512 Carlyle Court,
#1511, Santa Clara, CA 95054 (US). **BOMAN, Lee,**
Campbell; 1515A Folger Drive, Belmont, CA 94002 (US).
KOZAK, Julius, George; 4505 Steed Way, Antioch, CA
94531 (US). **PATEL, Kayur, Ashwin**; 3627 Nortree Street,
San Jose, CA 95148 (US). **STEGALL, Jeremy, B.**; 1834
Tuckahoe Drive, Riner, VA 24149 (US). **PORT, Anthony,**
Brian; 5045 Lone Oak Road SE, Salem, OR 97306 (US).

(74) Agent: **CARRIER, Michael, K.**; P.O. Box 511, Kingsport,
TN 37662-5075 (US).

(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, 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, 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: LAMINATED OPTICAL PRODUCTS AND METHODS OF MAKING THEM

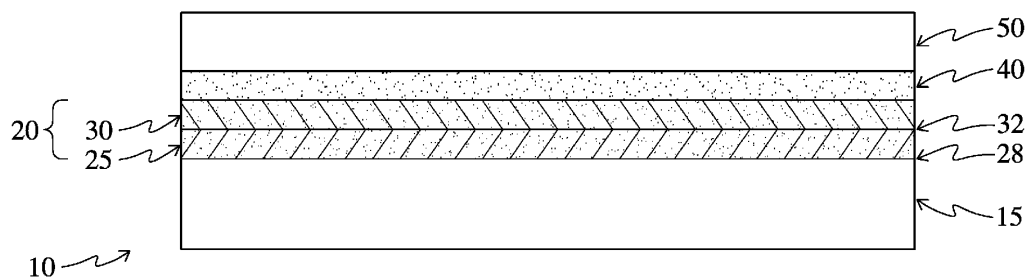


FIG 1

(57) Abstract: Optical products are disclosed that include a polymer substrate; a composite coating, deposited on the polymer substrate; a permeating adhesive, which permeates the composite coating and is in contact with the polymer substrate; and a protective layer, secured to the composite coating by the permeating adhesive. The composite coating includes at least a first layer and a second layer, each of which is provided with a binding group component which together form a complementary binding group pair. The optical products exhibit improved resistance to delamination during storage and use.



WO 2019/055274 A1