

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
20 January 2022 (20.01.2022)



(10) International Publication Number
WO 2022/016151 A1

(51) International Patent Classification:

D04H 1/413 (2012.01) *B32B 5/26* (2006.01)
D04H 1/4218 (2012.01) *B32B 29/02* (2006.01)
D04H 1/58 (2012.01)

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))

(21) International Application Number:

PCT/US2021/042217

(22) International Filing Date:

19 July 2021 (19.07.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/053,016 17 July 2020 (17.07.2020) US

(71) Applicant: **THE DILLER CORPORATION** [US/US];
10155 Reading Road, Cincinnati, OH 45241 (US).

(72) Inventors: **TAILLAN, Frederic**; 1785 Riverwood Trails,
Kings Mills, OH 45034 (US). **KRAMER, Abbie, L.**; 5575
Weaver Lane, Cold Spring, KY 41076 (US). **GREEN,
David, R.**; 5825 Monassas Run Road, Milford, OH 45150
(US).

(74) Agent: **ETTELMAN, Aaron, R.**; Flaster Greenberg PC,
100 Front Street, Suite 100, Conshohocken, PA 19428 (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, IT, 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,

(54) Title: FIBERGLASS VEILS CONTAINING FIRE-RETARDANT MINERALS AND REFRACTIVE PARTICLES, AND HIGH GLOSS AND/OR FIRE-RETARDANT AND/OR NON-COMBUSTIBLE LAMINATES CONTAINING SUCH VEILS

(57) Abstract: Non-woven fiberglass veils, and laminates made therefrom, comprising: a plurality of glass fibers; a resin component; a fire-retardant component; and a particulate component, the particulate component comprising inorganic particles having a refractive index higher than a refractive index of the fire-retardant component and an average particle size of from about 0.1 to about 0.5 µm; wherein the fire-retardant component and the particulate component are present in a combined amount of from about 50% to about 90% by weight, based on the total weight of the veil, and wherein the fire-retardant component and the particulate component are present in a ratio by weight of from about 95:5 to about 50:50; are described.



WO 2022/016151 A1