

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
06 August 2020 (06.08.2020)



(10) International Publication Number
WO 2020/160220 A1

(51) International Patent Classification:

B01D 27/00 (2006.01) *B32B 7/05* (2019.01)
B29C 48/25 (2019.01) *B32B 37/12* (2006.01)
B29C 65/48 (2006.01) *F16L 13/11* (2006.01)
B32B 3/20 (2006.01)

(21) International Application Number:

PCT/US2020/015814

(22) International Filing Date:

30 January 2020 (30.01.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/798,775 30 January 2019 (30.01.2019) US

(71) Applicant: **REPLIGEN CORPORATION** [US/US]; 41 Seyon Street, Waltham, Massachusetts 02453 (US).

(72) Inventors: **ROBINSON, Craig**; 156 Lincoln Street, Hingham, Massachusetts 02043 (US). **BENGANI-LUTZ, Pri-ty**; 11A Pearl Street, Woburn, Massachusetts 01801 (US).

(74) Agent: **KAUSHAL, Dhruv**; Kacvinsky Daisak Bluni PLLC, 2601 Weston Parkway, Suite 103, Cary, North Carolina 27513 (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, 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).

(54) Title: METHOD OF USING TRACK ETCHED MEMBRANES FOR THE FILTRATION OF BIOLOGICAL FLUIDS

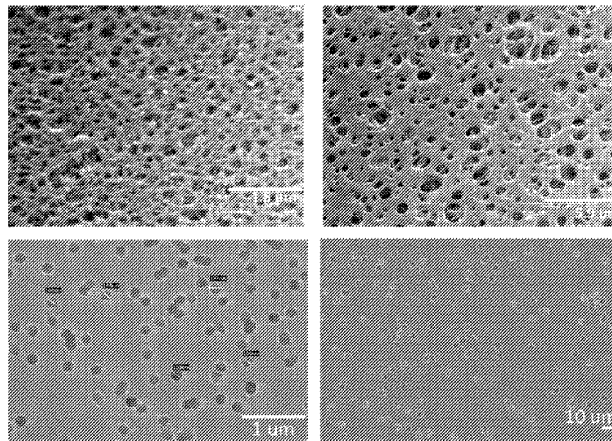


Figure 1.

(57) Abstract: Track-etched membranes for filtration are provided. Filtration methods utilizing such membranes and cell culture methods are also provided.

[Continued on next page]

WO 2020/160220 A1

Published:

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