

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 August 2023 (17.08.2023)



(10) International Publication Number
WO 2023/154004 A2

- (51) **International Patent Classification:**
Not classified
- (21) **International Application Number:**
PCT/SG2023/050046
- (22) **International Filing Date:**
26 January 2023 (26.01.2023)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
10202201394T 14 February 2022 (14.02.2022) SG
- (71) **Applicant:** **NANYANG TECHNOLOGICAL UNIVERSITY** [SG/SG]; 50 Nanyang Avenue, Singapore 639798 (SG).
- (72) **Inventors:** **WEI, Lei**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG). **ZHOU, Tianzhu**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG).
- (74) **Agent:** **CHINA SINDA INTELLECTUAL PROPERTY PTE. LTD.**; 133 Cecil Street, #12-01A, Keck Seng Tower, Singapore 069535 (SG).
- (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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, 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.

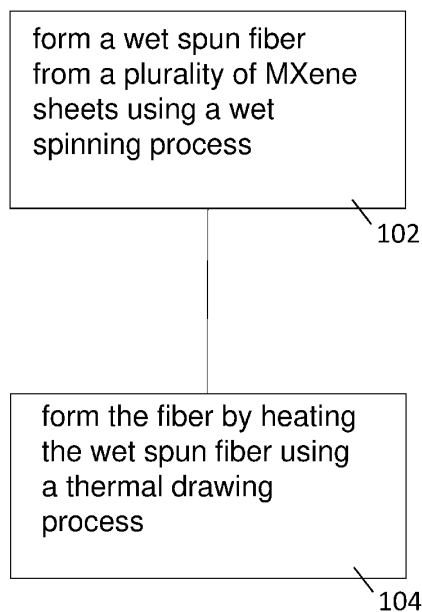
- (84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, 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:

- without international search report and to be republished upon receipt of that report (Rule 48.2(g))

- (54) **Title:** FIBER AND METHOD OF FORMING THE SAME

FIG. 1



(57) **Abstract:** Various embodiments may relate to a method of forming a fiber. The method may include forming a plurality of wet spun fibers from a plurality of MXene sheets using a wet spinning process. The method may also include forming the fiber by heating the wet spun fiber using a thermal drawing process. The fiber may be a cross-linked MXene -based fiber including a MXene core including the plurality of MXene sheets which are cross-linked. The fiber may further include a protective layer surrounding the MXene core.

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