

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
07 April 2022 (07.04.2022)



(10) International Publication Number
WO 2022/072715 A1

(51) International Patent Classification:

C01B 32/00 (2017.01) H01M 4/38 (2006.01)
C01B 33/035 (2006.01) H01M 4/62 (2006.01)
H01M 4/134 (2010.01) H01M 10/0525 (2010.01)
H01M 4/1395 (2010.01)

(21) International Application Number:

PCT/US2021/052995

(22) International Filing Date:

30 September 2021 (30.09.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/085,788 30 September 2020 (30.09.2020) US
63/129,363 22 December 2020 (22.12.2020) US

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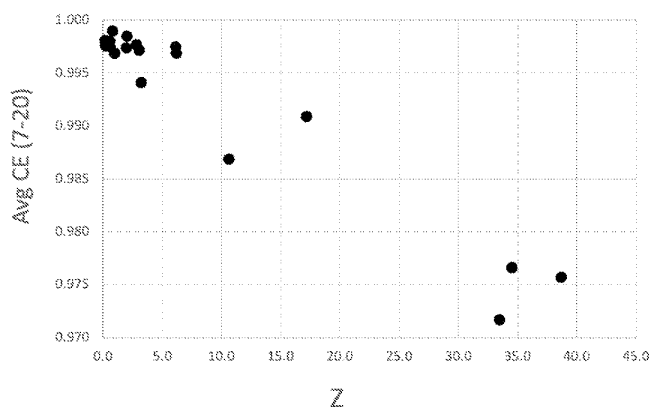
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, 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.

(54) Title: METHODS OF PASSIVATION TO CONTROL OXYGEN CONTENT AND REACTIVITY OF SILICON-CARBON COMPOSITE MATERIALS

Fig. 1

Data for Various Silicon-Carbon Composite Materials



Relationship between Z and average Coulombic efficiency for various silicon-carbon composite materials.

(57) Abstract: Passivated silicon carbon composite materials and related processes are disclosed that overcome the challenges for providing amorphous nano sized silicon entrained within porous carbon. Compared to other, inferior materials and processes described in the prior art, the materials and processes disclosed herein find superior utility in various applications, including energy storage devices such as lithium ion batteries.

[Continued on next page]

(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))