

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 April 2024 (04.04.2024)



(10) International Publication Number
WO 2024/073209 A1

(51) International Patent Classification:

C08B 37/08 (2006.01) *H01L 21/321* (2006.01)
C08B 37/02 (2006.01) *H01L 21/306* (2006.01)
C08B 37/00 (2006.01) *H01L 21/3105* (2006.01)
C09G 1/02 (2006.01) *H01L 21/768* (2006.01)
C09K 3/14 (2006.01)

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).

(21) International Application Number:

PCT/US2023/073132

Published:

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

(22) International Filing Date:

30 August 2023 (30.08.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/377,802 30 September 2022 (30.09.2022) US

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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, 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, MU, 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, SC, SD, SL, ST,

(54) Title: MODIFIED WATER-SOLUBLE POLYSACCHARIDES HAVING DIFFERENT CATION TYPES FOR SLURRIES IN CHEMICAL MECHANICAL PLANARIZATION

(57) Abstract: Synthesis of cationic-modified water-soluble polysaccharide is disclosed. The cation is pendent to the polysaccharide backbone. Chemical Mechanical Planarization (CMP) slurries comprise abrasives; activator; oxidizing agent; additive comprising cationic-modified water-soluble polysaccharide; and water. The use of the synthesized cationic-modified water-soluble polysaccharide in the CMP slurries reduces dishing and erosion in highly selective tungsten slurries.

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