

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2022/232751 A1

(43) International Publication Date
03 November 2022 (03.11.2022)

(51) International Patent Classification:

G03F 7/42 (2006.01) C11D 3/04 (2006.01)
C11D 11/00 (2006.01) C11D 3/43 (2006.01)
C11D 7/06 (2006.01) H01L 21/3105 (2006.01)
C11D 7/26 (2006.01)

(21) International Application Number:

PCT/US2022/071792

(22) International Filing Date:

19 April 2022 (19.04.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

63/182,334 30 April 2021 (30.04.2021) US

(71) Applicant: **VERSUM MATERIALS US, LLC** [US/US];
8555 South River Parkway, Tempe, Arizona 85284 (US).

(72) Inventors: **CAO, Yuanmei**; 8555 South River Parkway,
Allentown, Arizona 85284 (US). **WANG, Lili**; 8555 South
River Parkway, Allentown, Arizona 85284 (US).

(74) Agent: **SLAVEN IV, William T.**; EMD Performance Ma-
terials Corp., 70 Meister Avenue, Branchburg, New Jersey
08876 (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, JM, 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).

Published:

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

(54) Title: COMPOSITIONS FOR REMOVING A PHOTORESIST FROM A SUBSTRATE AND USES THEREOF

(57) Abstract: The disclosed and claimed subject matter relates to photoresist stripper solutions that include (i) one or more inorganic bases; (ii) two or more organic solvents; (iii) one or more corrosion inhibitors and can optionally include (iv) one or more secondary solvent(s).

WO 2022/232751 A1