



(51) International Patent Classification:

C08F 220/56 (2006.01) *G01N 33/543* (2006.01)
C08F 293/00 (2006.01)

(21) International Application Number:

PCT/US2014/028247

(22) International Filing Date:

14 March 2014 (14.03.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/785,987 14 March 2013 (14.03.2013) US

(71) Applicant: **NVS TECHNOLOGIES, INC.** [US/US];
1505 Adams Drive, Suite D, Menlo Park, California 94025
(US).

(72) Inventors: **LAU, Aldrich, N. K.**; 1941 Middlefield Road,
Palo Alto, California 94301 (US). **EASON, Robert, G.**;
18439 Las Cumbres, Los Gatos, California 95033 (US).
SCABOO, Kristian; 18063 Walnut Road, Castro Valley,
California 94546 (US).

(74) Agents: **HARWOOD, Eric, A.** et al.; Seed Intellectual
Property Law Group PLLC, Suite 5400, 701 Fifth Avenue,
Seattle, Washington 98104-7064 (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, DK, DM,

DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LT, 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, SM, ST, SV, SY, TH, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, 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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

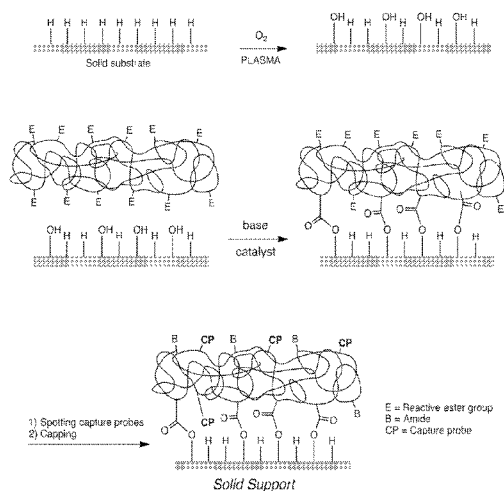
Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

[Continued on next page]

(54) Title: SURFACE OXIDATION FOR SEQUESTERING BIOMOLECULES AND RELATED METHODS

FIG. 1C Immobilization based on surface hydroxyl groups



(57) Abstract: Solid supports comprising polymers covalently bound to a solid substrate are provided. The polymers find utility in any number of applications including immobilizing analyte molecules to solid supports for high throughput assays.



(88) Date of publication of the international search report:
31 December 2014