



(51) International Patent Classification:
H01L 21/48 (2006.01) *C09D 125/12* (2006.01)
C08J 5/18 (2006.01)

(21) International Application Number:
PCT/US2010/048899

(22) International Filing Date:
15 September 2010 (15.09.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/242,846 16 September 2009 (16.09.2009) 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, 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, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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))

(88) Date of publication of the international search report:
14 July 2011

(54) Title: SCRATCH-RESISTANT COATINGS FOR PROTECTING FRONT-SIDE CIRCUITRY DURING BACKSIDE PROCESSING

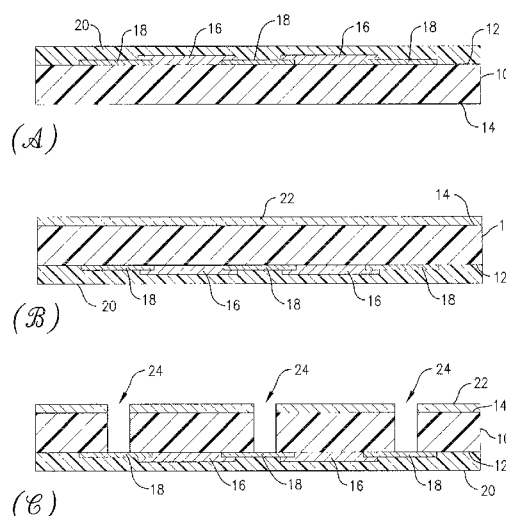


Fig. 1.

(57) Abstract: Scratch-resistant coatings for protecting front-side microelectromechanical and semiconductor device features during backside processing are provided, along with methods of using the same. The coatings are non-photosensitive, removable, and tolerate high processing temperatures. These coatings also eliminate the need for a separate etch stop layer in the device design. The coatings are formed from a composition comprising a component dissolved or dispersed in a solvent system. The component is selected from the group consisting of styrene-acrylonitrile copolymers and aromatic sulfone polymers.

