

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
27 October 2011 (27.10.2011)

(10) International Publication Number  
**WO 2011/132020 A1**

(51) International Patent Classification:  
C07F 7/18 (2006.01)

(21) International Application Number:  
PCT/IB2010/051747

(22) International Filing Date:  
21 April 2010 (21.04.2010)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **SABANCI UNIVERSITESI** [TR/TR]; Orhanli, Tuzla, 34956 Istanbul (TR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **TARALP, Alpay** [TR/TR]; Sabanci Universitesi, Orhanli, Tuzla, 34956 Istanbul (TR).

(74) Agent: **ANKARA PATENT BUREAU LIMITED;** Bestekar Sokak No.10, Kavaklidere, 06680 Ankara (TR).

(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 (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))

(54) Title: PREPARATION OF SUBSTANTIALLY QUATERNIZED AMMONIUM ORGANOSILANE COMPOSITION AND SELF-STABILIZING AQUEOUS SOLUTION THEREOF

(57) Abstract: This invention relates to the preparation of a partially quaternized ammonium organosilane composition, and a self-stabilizing aqueous solution of said composition, which serves to yield an antimicrobial polysilsesquioxane coating upon thermal curing. By way of this invention, an aqueous solution is prepared, comprised in part by a partially quaternized ammonium organosilane hydrolysate, characterized in that no further manipulation or addition of potentially costly ingredients are required to yield a stable and hence marketable product.



WO 2011/132020 A1