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(71) Applicant: **GENERAL ELECTRIC COMPANY**
[US/US]; 1 River Road, Schenectady, NY 12345 (US).

(72) Inventors: **CELLA, James, Anthony**; 95 Lace Lane,
Clifton Park, NY 12065 (US). **LISKA, Juraj**; De Boule-
vard 136, NL-4617 LZ Bergen op Zoom (NL). **ULERY,**
Victoria, L.; 2 Tamburlain, Hattiesburg, MS 39402 (US).
YAEGER, Gary, William; 2010 Fairlawn Parkway,

Schenectady, NY 12309 (US). **NYE, Susan, Adams**; 1926
Tarrytown Road, Feura Bush, NY 12067 (US). **GUO,**
Hua; 7B Lavery Drive, Delmar, NY 12054 (US). **SINGH,**
Navjot; 11 Montgomery Way, Clifton Park, NY 12065
(US).

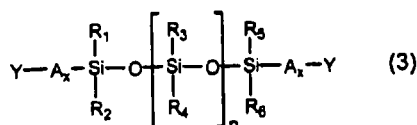
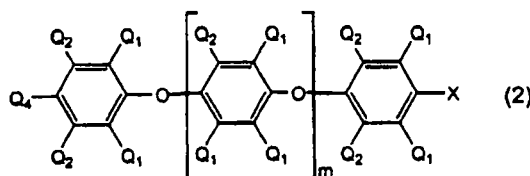
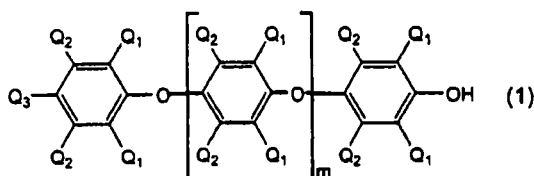
(74) Agents: **SNYDER, Bernard et al.**; General Electric Com-
pany, 3135 Easton Turnpike W3C, Fairfield, CT 06431
(US).

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(54) Title: SYNTHESIS OF POLY(ARYLENE ETHER)-POLY(ORGANOSILOXANE) COPOLYMERS



(57) Abstract: A method comprising (a) synthesis of a poly(arylene ether) having structure (1), (b) solution functionalization of polymer (1) to form functionalized poly(arylene ether) having structure (2); wherein X is a reactive functional group selected from the group consisting of anhydride, hydroxyl, epoxy, carboxyl, -R¹OH, R¹CO₂R², -R¹CH₂=CH₂, or vinyl, and Q₄ is hydrogen, X, or a mixture thereof; (c) reaction of functionalized poly(arylene ether) (2) with a poly(organosiloxane) having structure (3); wherein x is zero or one and Y is a functional group reactive with X, selected from the group consisting of -OH, -CH₂=CH₂, epoxy, amino, carboxy, -C(O)CH₂OH, or hydrogen, to form a poly(arylene ether)-poly(siloxane) copolymer.

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ACTION

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