

(51) International Patent Classification:
C08G 81/00 (2006.01) *C08F 292/00* (2006.01)(21) International Application Number:
PCT/US2010/025145(22) International Filing Date:
24 February 2010 (24.02.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/156,046 27 February 2009 (27.02.2009) US
61/156,043 27 February 2009 (27.02.2009) US
61/156,033 27 February 2009 (27.02.2009) US(71) Applicants (*for all designated States except US*): **UOP LLC** [US/US]; 25 East Algonquin Road, P. O. Box 5017, Des Plaines, Illinois 60017-5017 (US). **THE REGENTS OF THE UNIVERSITY OF MICHIGAN** [US/US]; Division of Research Development and Administration, 3003 S. State St., Room 1072, Ann Arbor, Michigan 48109-1274 (US).

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(54) Title: BLOCK COORDINATION COPOLYMERS

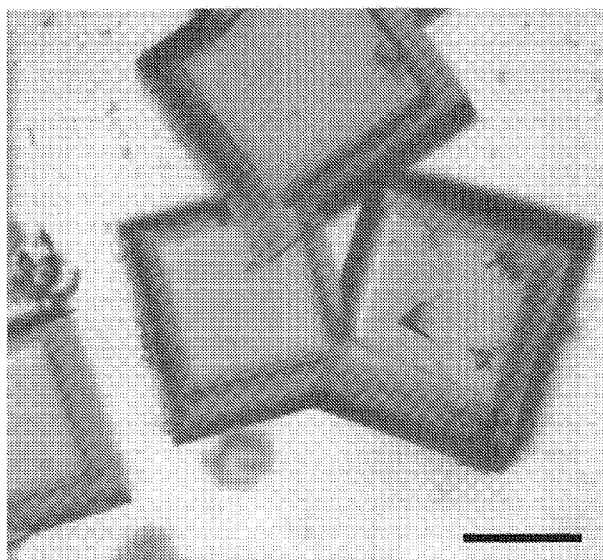


FIG. 1a

(57) Abstract: The present invention provides compositions of crystalline coordination copolymers and methods of making and using the compositions wherein multiple organic molecules are assembled to produce porous framework materials with layered or core-shell structures. These materials are synthesized by sequential growth techniques such as the seed growth technique. In addition, the invention provides a simple procedure for controlling functionality.



(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, 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))*

(88) Date of publication of the international search report:
27 January 2011