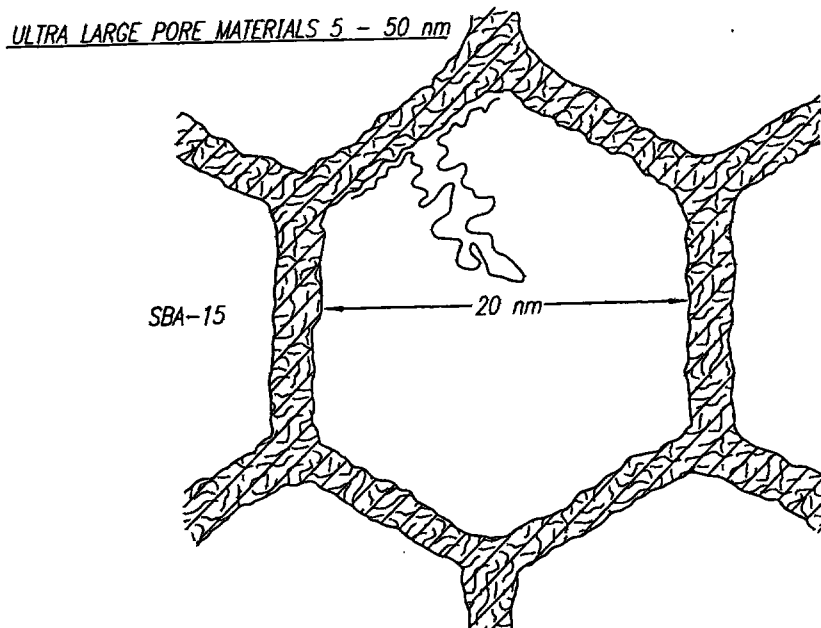




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(71) Applicant (for all designated States except US): THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 12th floor, 1111 Franklin Street, Oakland, CA 94607-5200 (US).			
(72) Inventors; and (75) Inventors/Applicants (for US only): STUCKY, Galen, D. [US/US]; 973 W. Campus Route Lane, Goleta, CA 93117 (US). CHMELKA, Bradley, F. [US/US]; 933 W. Campus Lane, Goleta, CA 93117 (US). ZHAO, Dongyuan [US/US]; 6763 Abrego, Isla Vista, CA 93117 (US). MELOSH, Nick [US/US]; 8240 E. Calle Potrero, Tucson, AZ 85750 (US). HUO, Qisheng [US/US]; 239-1 Palmdale Drive, Williamsville, NY 14221 (US). FENG, Jianglin [US/US]; Apartment 7, 410 Seymour Road, Charlottesville, VA 22903 (US). YANG, Peidong [US/US]; University of California, Chemistry Dept., Santa Barbara, CA 93117 (US). PINE, David [US/US]; 1037 St. Mary's Place, Santa			(74) Agent: BERLINER, Robert; Fulbright & Jaworski L.L.P., 29th floor, 865 S. Figueroa Street, Los Angeles, CA 90017-2576 (US).
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(57) Abstract

Highly mesoscopically ordered, hydrothermally stable and ultra large pore size metal oxide-block copolymer composite or mesoporous films, fibers, and monoliths are formed using amphiphilic block copolymers which act as structure directing agents for the metal oxide in a self-assembling system.