

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 January 2008 (10.01.2008)

PCT

(10) International Publication Number
WO 2008/004988 A1

(51) International Patent Classification:

C08F 2/06 (2006.01) *C08F 2/38* (2006.01)
C08F 2/16 (2006.01) *C08F 220/54* (2006.01)
C08F 2/24 (2006.01) *C08L 33/26* (2006.01)

(21) International Application Number:

PCT/SG2007/000199

(22) International Filing Date: 6 July 2007 (06.07.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/818,522 6 July 2006 (06.07.2006) US

(71) Applicants (for all designated States except US):
AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH [SG/SG]; 20 Biopolis Way, #07-01 Centros, Singapore, Singapore 138668 (SG). **NANYANG TECHNOLOGICAL UNIVERSITY** [SG/SG]; 50 Nanyang Avenue, Singapore, Singapore 639798 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YANG, YI-YAN** [SG/SG]; 31 Biopolis Way, The Nanos, Singapore, Singapore 138669 (SG). **LIU, HONG-WEI** [CN/SG]; 50

Nanyang Avenue, Singapore, Singapore 639798 (SG). **CHING, CHI-BUN** [SG/SG]; 50 Nanyang Avenue, Singapore, Singapore 639798 (SG). **CHEN, HONG** [CN/SG]; 31 Biopolis Way, The Nanos, Singapore, Singapore 138669 (SG).

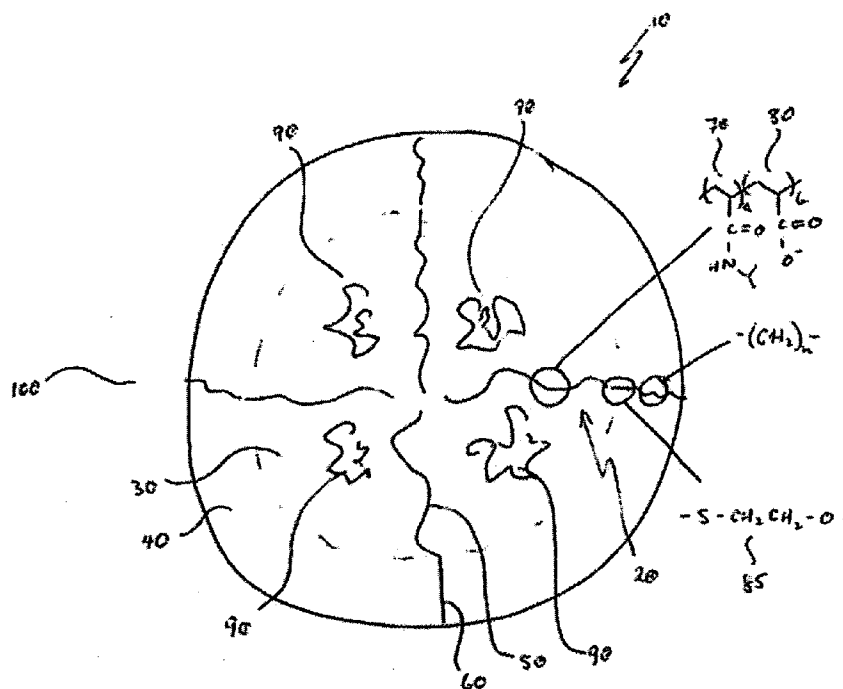
(74) Agent: **ELLA CHEONG SPRUSON & FERGUSON (SINGAPORE) PTE LTD**; P.O. Box 1531, Robinson Road Post Office, Singapore 903031 (SG).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, 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,

[Continued on next page]

(54) Title: THERMALLY RESPONSIVE MICELLES



(57) Abstract: The invention provides an amphiphilic copolymer comprising monomer units derived from a first monomer and monomer units derived from a second monomer. The copolymer has at least one hydrophobic endgroup. The first monomer is such that the copolymer is thermally responsive and the second monomer comprises a carboxylic acid or carboxylate group.

WO 2008/004988 A1



FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,
PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*