

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 July 2008 (31.07.2008)

PCT

(10) International Publication Number
WO 2008/091226 A1

(51) International Patent Classification:

C01G 53/04 (2006.01) **H01G 4/12** (2006.01)
H01G 4/018 (2006.01) **H01G 4/06** (2006.01)
H01G 4/08 (2006.01) **H01G 4/10** (2006.01)

(74) Agent: **ROBINSON, Kristian**; Ella Cheong Spruson & Ferguson (Singapore) Pte Ltd P.O. Box 1531, Robinson Road Post Office, Singapore 903031 (SG).

(21) International Application Number:

PCT/SG2008/000026

(22) International Filing Date: 22 January 2008 (22.01.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/881,937 22 January 2007 (22.01.2007) US

(71) Applicant (for all designated States except US):
AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH [SG/SG]; 20 Biopolis Way, #07-01 Centros, Singapore 138668 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SULLIVAN, Michael, B.** [US/SG]; Block 839 Yishun St 81 #10-306, Singapore 760839 (SG). **ZHENG, Jian Wei** [CN/SG]; Block 664B Jurong West St 64 #09-224, Singapore 642664 (SG). **WU, Ping** [CA/SG]; 06 Pari Dedap Walk #05-06, Singapore 486060 (SG).

(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, 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, 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, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(54) Title: CO-DOPED NICKEL OXIDE

(57) Abstract: A nickel oxide co-doped with a first alkali metal dopant and a second metal dopant selected from the group consisting of at least one of tin, antimony, indium, tungsten, iridium, scandium, gallium, vanadium, chromium, gold, yttrium, lanthanum, ruthenium, rhodium, molybdenum, and niobium.

WO 2008/091226 A1