(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 August 2007 (09.08.2007)

PCT

(10) International Publication Number
WO 2007/089490 A1

(51) International Patent Classification:
A61K 31/57 (2006.01) *A61K 47/48* (2006.01)

(21) International Application Number:
PCT/US2007/001851

(22) International Filing Date: 24 January 2007 (24.01.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/275,775 27 January 2006 (27.01.2006) US

(71) Applicant *(for all designated States except US)*: **ELAN PHARMA INTERNATIONAL, LTD.** [IE/IE]; Monksland, Athlone, County Westmeath (IE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **SHAW, Jack, Michael** [US/US]; 231 McCauley Road, Conowingo, MD 21918 (US). **SLIFER, David** [US/US]; 715 Morgan Drive, Royersford, PA 19468 (US). **RUDDY, Steven, B.** [US/US]; 226 Stallion Lane, Schwenksville, PA 19473 (US). **PRUITT, John** [US/US]; 603 Buyers Road, Collegeville, PA 19426 (US). **KEWALRAMANI, Raj** [US/US]; 150 Stine Drive, Collegeville, PA 19426 (US).

(74) Agents: **SIMKIN, Michele, M** et al.; FOLEY & LARDNER LLP, Washington Harbour, 3000 K St., NW, Suite 500, Washington, DC 20007 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, LV, 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, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, 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).

Published:
— *with international search report*

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.

WO 2007/089490 A1

(54) Title: STERILIZED NANOPARTICULATE GLUCOCORTICOSTEROID FORMULATIONS

(57) Abstract: The invention is directed to sterile compositions of glucocorticosteroids useful in the prophylaxis and chronic treatment of asthma and other allergic and inflammatory conditions in adults and pediatric patients.