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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 March 2004 (11.03.2004)

PCT

(10) International Publication Number
WO 2004/019948 A1

(51) International Patent Classification[7]: A61K 31/519, A61P 25/06, 25/16, 25/30, 43/00

(21) International Application Number: PCT/GB2003/003720

(22) International Filing Date: 28 August 2003 (28.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0220064.0 29 August 2002 (29.08.2002) GB
0316115.5 9 July 2003 (09.07.2003) GB

(71) Applicant *(for all designated States except US)*: **ARACHNOVA THERAPEUTICS LTD.** [—/—]; 95 Halkett Place, St. Helier, Jersey JE1 1BX (**).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **CAVALLA, David** [GB/GB]; Arachnova Ltd., St. John's Innovation Centre, Cambridge CB4 0WS (GB). **GRISTWOOD, Robert, William** [GB/GB]; Arachnova Ltd., St. John's Innovation Centre, Cambridge CB4 0WS (GB).

(74) Agent: **GILL JENNINGS & EVERY**; Broadgate House, 7 Eldon Street, London EC2M 7LH (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (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.

(54) Title: NEW THERAPEUTIC USES OF (4-(2-FLUOROPHENYL)-6-METHYL-2-(1-PIPERAZINYL) THIENO[2,3-D]PYRIMIDINE

(57) Abstract: (4-(2-Fluorophenyl)-6-methyl-2-(1-piperazinyl)thieno[2,3-D]pyrimidine or a salt thereof has value in the treatment of fibromyalgia, obesity, weight gain and other conditions.

WO 2004/019948 A1