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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
29 January 2004 (29.01.2004)

PCT

(10) International Publication Number
WO 2004/009072 A3

(51) International Patent Classification[7]: A61K 31/205

(21) International Application Number:
PCT/US2003/022914

(22) International Filing Date: 23 July 2003 (23.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/397,804 23 July 2002 (23.07.2002) US

(71) Applicant: THE UNIVERSITY OF MICHIGAN [US/US]; 3003 S. State Street, Suite 2701, Ann Arbor, MI 48109-1280 (US).

(72) Inventors: BREWER, George, J.; 3820 Gensley, Ann Arbor, MI 48103 (US). MERAJVER, Sofia, D.; 2755 Daleview Drive, Ann Arbor, MI 48104 (US). COUCOUVANIS, Dimitri; 3750 Lamplighter Drive, Ann Arbor, MI 48103 (US).

(74) Agent: FUSSEY, Shelley, P., M.; Williams, Morgan & Amerson, P.C, 10333 Richmond Ave., Suite 1100, Houston, TX 77042 (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, 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*
— *with amended claims and statement*

(88) Date of publication of the international search report:
8 April 2004

Date of publication of the amended claims and statement:
8 July 2004

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: TETRAPROPYLAMMONIUM TETRATHIOMOLYBDATE AND RELATED COMPOUNDS FOR ANTI-ANGIOGENIC THERAPIES

(57) Abstract: Disclosed are copper-binding compounds with improved properties and methods of using such compounds in the prevention and treatment of angiogenic diseases, such as cancer. Advantages of the invention include the enhanced stability of the compounds, which is achieved without reduction in efficacy. Pharmaceutical compositions, therapeutic kits and combination treatment methods and uses are also provided.

WO 2004/009072 A3