

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 June 2001 (07.06.2001)

PCT

(10) International Publication Number
WO 01/39724 A3

- (51) International Patent Classification⁷: **A61K 31/513**, C07F 9/02, 9/22, 9/28
- (74) Agent: **REITER, Stephen, E.**; Gray Cary Ware & Freidenrich LLP, Suite 1600, 4365 Executive Drive, San Diego, CA 92121-2189 (US).
- (21) International Application Number: PCT/US00/33079
- (22) International Filing Date: 4 December 2000 (04.12.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/168,813 3 December 1999 (03.12.1999) US
60/205,719 19 May 2000 (19.05.2000) US
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, 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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, SAN DIEGO** [US/US]; 9500 Gilman Drive, La Jolla, CA 93093-0919 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **HOSTETLER, Karl, Y.** [US/US]; 14024 Rue St. Raphael, Del Mar, CA 92014 (US). **BEADLE, James, R.** [US/US]; 11723 Petenwell Road, San Diego, CA 92131 (US). **KINI, Ganesh, D.** [US/US]; 10064 Cairn Mountain Way, Bristow, VA 20136 (US).
- Published:**
— with international search report
- (88) Date of publication of the international search report:
18 October 2001
- 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: PHOSPHONATE COMPOUNDS

(57) Abstract: The present invention relates to phosphonate compounds, compositions containing them, processes for obtaining them, and their use for treating a variety of medical disorders, e.g., osteoporosis and other disorders of bone metabolism, cancer, viral infections, and the like.

WO 01/39724 A3

