

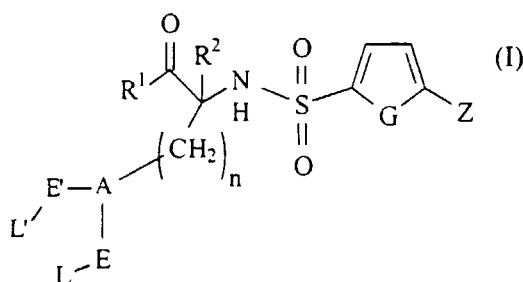
(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
27 September 2001 (27.09.2001)

PCT

(10) International Publication Number
WO 01/70682 A3

- (51) International Patent Classification⁷: **C07D 317/72**, 319/08, 235/02, 265/32, 265/10, 263/20, 275/02, 233/72, 207/26, C07C 311/25, 311/19, A61K 31/357, A61P 35/00
- (74) Common Representative: **THE PROCTER & GAMBLE COMPANY**; c/o Reed, T., David, 5299 Spring Grove Avenue, Cincinnati, OH 45217 (US).
- (21) International Application Number: PCT/US01/08784
- (22) International Filing Date: 20 March 2001 (20.03.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/191,059 21 March 2000 (21.03.2000) US
- (71) Applicant (for all designated States except US): **THE PROCTER & GAMBLE COMPANY** [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **NATCHUS, Michael, George** [US/US]; 1096 Laurel Avenue, Cincinnati, OH 45246 (US). **PIKUL, Stanislaw** [PL/US]; 10833 Cottage Garden Drive, Apartment 101, Germantown, MD 20874 (US). **ALMSTEAD, Neil, Gregory** [US/US]; 167 Rachel Court, Franklin Park, NJ 08823 (US). **LAUFER-SWEILER, Matthew, J.** [US/US]; 4251 Green Arbors Lane, Cincinnati, OH 45249 (US). **BOOKLAND, Roger, Gunnard** [US/US]; 960 Spruceglen Drive, Cincinnati, OH 45224 (US). **TULLIS, Joshua, S.** [US/US]; 6671 Parklake Drive, Mason, OH 45040 (US). **DE, Biswanath** [US/US]; 11269 Cornell Woods Drive, Cincinnati, OH 45241 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), 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, SK (utility model), 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).
- Published:**
— with international search report
- (88) Date of publication of the international search report:
31 January 2002
- 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: CARBOCYCLIC SIDE CHAIN CONTAINING METALLOPROTEASE INHIBITORS



(57) Abstract: Disclosed are compounds which are inhibitors of metalloproteases and which are effective in treating conditions characterized by excess activity of these enzymes. In particular, the compounds have a structure according to Formula (I) where R¹, R², n, A, E, E', L, L', G and Z have the meanings described in the specification and the claims, as well as optical isomers, diastereomers and enantiomers of Formula (I), and pharmaceutically-acceptable salts, biohydrolyzable amides, esters, and imides thereof. Also described are pharmaceutical compositions comprising these compounds, and methods of treating metalloprotease-related maladies using the compounds or the pharmaceutical compositions.