

(19) World Intellectual Property
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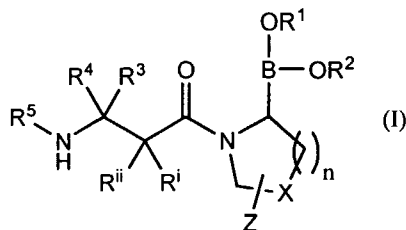
(43) International Publication Date
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number
WO 2005/047297 A1

- (51) International Patent Classification⁷: **C07F 5/02**, (74) Agents: **WARBURG, Richard, J.** et al.; Foley & Lardner, P.O. Box 80278, San Diego, CA 92138-0278 (US).
C07D 403/12
- (21) International Application Number: PCT/US2004/037820
- (22) International Filing Date: 12 November 2004 (12.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/519,566 12 November 2003 (12.11.2003) US
60/557,011 25 March 2004 (25.03.2004) US
60/592,972 30 July 2004 (30.07.2004) US
- (71) Applicant (for all designated States except US): **PHE-NOMIX CORPORATION** [US/US]; 11099 North Torrey Pines Road, San Diego, CA 92037 (US).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **CAMPBELL, David, Alan** [US/US]; 13318 Seagrove Street, San Diego, CA 92130 (US). **WINN, David** [US/US]; 5749 Avenida Sanchez, San Diego, CA 92124 (US).
- (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, LU, 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.

(54) Title: HETEROCYCLIC BORONIC ACID COMPOUNDS



(57) Abstract: Dipeptidyl peptidase IV (DPP-IV)-inhibiting compounds are provided that have formula I: wherein n is 1 to 3; X is CH₂; S; O; CF₂ or C (CH₃)₂; Z is H; halogen; hydroxyl; (C₁₋₆)alkoxy; (C₁₋₁₂)alkyl; (C₃₋₁₂)cycloalkyl; phenyl; or heteroaryl; where the phenyl and heteroaryl groups are optionally mono- or independently plurisubstituted with R⁷; optionally, X together with an adjacent ring carbon and Z form a fused cyclopropyl; and optionally, one of the bonds in the ring containing X is a double bond; and C^rRⁱⁱ, R¹, R¹, R³, R⁴ and R⁵ are as described herein. Methods for preparing these compounds, and methods for treating diabetes, especially Type II diabetes, and other related diseases are described using the compounds of formula I in

pharmaceutical compositions which contain these compounds. Pharmaceutical compositions which contain combinations of these compounds with other antidiabetic agents are also described herein.



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