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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 August 2003 (21.08.2003)

PCT

(10) International Publication Number
WO 03/068166 A3

(51) International Patent Classification[7]: A61K 47/34

(21) International Application Number: PCT/US03/04617

(22) International Filing Date: 13 February 2003 (13.02.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/357,347	13 February 2002 (13.02.2002)	US
60/357,574	15 February 2002 (15.02.2002)	US

(71) Applicant: **VITREO-RETINAL TECHNOLOGIES, INC.** [US/US]; 2 Venture, Suite 430, Irvine, CA 92618 (US).

(72) Inventors: **KARAGEOZIAN, Vicken**; 758 Cress Street, Laguna Beach, CA 92651 (US). **CASTILLEJOS, David**; 2 Venture, Suite 430, Irvine, CA 92618 (US). **PARK, John**; 13122 Shasta Way, Santa Ana, CA 92705 (US).

(74) Agent: **BUYAN, Robert, D.**; Stout, Uxa, Buyan & Mullins LLP, 4 Venture, Suite 300, Irvine, CA 92618 (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, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, 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, 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*

(88) Date of publication of the international search report:
24 December 2003

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.

WO 03/068166 A3

(54) Title: TREATMENT OF OPHTHALMIC DISORDERS USING UREA AND UREA DERIVATIVES

(57) Abstract: Methods for treating disorders of the eye and/or disorders of a nerve in a human or veterinary patient by delivering to the patient a therapeutically effective amount of a compound selected from the group of; urea, urea derivatives, thiourea, thiourea derivatives, guanidine, guanidine derivatives and compounds having General Formula I as set forth herein. For ophthalmic applications, the compound may be delivered by intravitreal injection such that the compound causes vitreal liquefaction, posteriour vitreoretinal detachment and other affects.