



(51) International Patent Classification:

A61K 31/4965 (2006.01) A61K 45/06 (2006.01)
C07D 241/34 (2006.01)

(21) International Application Number:

PCT/US2013/043080

(22) International Filing Date:

29 May 2013 (29.05.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/652,481 29 May 2012 (29.05.2012) US

(72) Inventor; and

(71) Applicant : JOHNSON, Michael, Ross [US/US]; 53524
Bickett, Chapel Hill, NC 27517 (US).

(74) Agents: KELLY, James, J. et al.; Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P., 1940 Duke Street, Alexandria, VA 22314 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: DENDRIMER LIKE AMINO AMIDES POSSESSING SODIUM CHANNEL BLOCKER ACTIVITY FOR THE TREATMENT OF DRY EYE AND OTHER MUCOSAL DISEASES

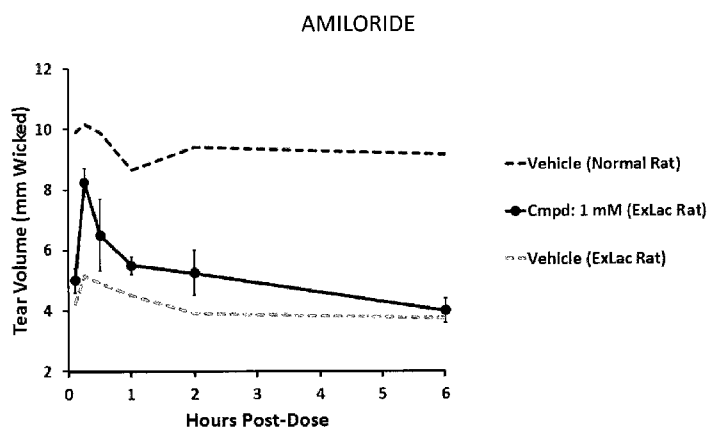
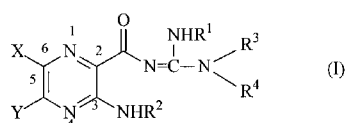


Figure 1



(57) Abstract: Sodium channel blockers represented by the formula (I) are provided where the structural variables are defined herein. The invention also includes a variety of compositions, combinations and methods of treatment using these inventive sodium channel blockers.