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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
18 September 2014 (18.09.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/145156 A2

(51) International Patent Classification:
C12Q 1/68 (2006.01) *A61B 1/31* (2006.01)

(21) International Application Number:
PCT/US2014/029872

(22) International Filing Date:
14 March 2014 (14.03.2014)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/792,757 15 March 2013 (15.03.2013) US

(71) Applicant: **TONIX PHARMACEUTICALS, INC.** [US/US]; 509 Madison Avenue, Suite 306, New York, New York 10022 (US).

(72) Inventors: **NEBULONI, Marino**; Via Card. Ferrari, 30, I-20017 Rho (mi) (IT). **COLOMBO, Patrizia**; Via Morona 10, I-20090 Trezzano sul Naviglio (IT).

(74) Agents: **HALEY, James F., Jr.** et al.; Ropes & Gray LLP, 1211 Avenue of the Americas, New York, New York 10036-8704 (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, IR, 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, SA, 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: EUTECTIC FORMULATIONS OF CYCLOBENZAPRINE HYDROCHLORIDE AND AMITRIPTYLINE HYDROCHLORIDE

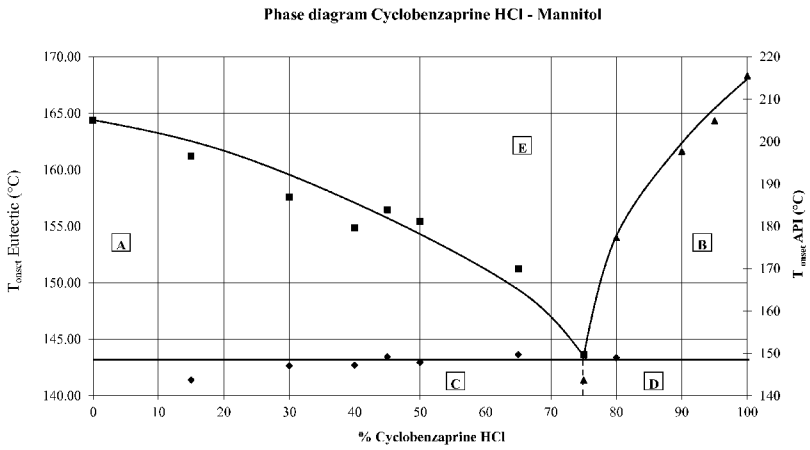


FIG. 65

(57) Abstract: The present invention relates to pharmaceutical compositions and methods of manufacturing the same, comprising a eutectic of Cyclobenzaprine HCl and mannitol or Amitriptyline HCl and mannitol.

WO 2014/145156 A2