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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
15 December 2022 (15.12.2022)

WIPO | PCT

(10) International Publication Number
WO 2022/260888 A1

(51) International Patent Classification:
A61K 9/20 (2006.01) *A61K 9/28* (2006.01)

(21) International Application Number:
PCT/US2022/031544

(22) International Filing Date:
31 May 2022 (31.05.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/208,060 08 June 2021 (08.06.2021) US

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(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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).

Declarations under Rule 4.17:
— *as to the identity of the inventor (Rule 4.17(i))*

Published:
— *with international search report (Art. 21(3))*

WO 2022/260888 A1

(54) Title: SUSTAINED RELEASE COMPOSITIONS COMPRISING LIOTHYRONINE

(57) Abstract: The present disclosure provides floating gastroretentive compositions comprising a multilayer core comprising 1) a pull layer containing liothyronine or a pharmaceutically acceptable salt thereof, an acid, and a gas-generating agent; and 2) a push layer. Each of the pull layer and the push layer comprises a swellable water-soluble hydrophilic polymer. The composition further comprises a permeable elastic membrane covering at least a portion of the multilayer core and containing at least one orifice in fluid communication with the pull layer. The permeable elastic membrane comprises a copolymer of ethyl acrylate, methyl methacrylate, and trimethylammonioethyl methacrylate chloride. The composition provides sustained release of liothyronine or a pharmaceutically acceptable salt thereof.