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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 August 2025 (28.08.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/177250 A1

(51) International Patent Classification:
A61K 31/045 (2006.01) *A61P 27/02* (2006.01)
A61K 47/06 (2006.01) *C07C 35/12* (2006.01)

(21) International Application Number:
PCT/IB2025/051927

(22) International Filing Date:
23 February 2025 (23.02.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/557,050 23 February 2024 (23.02.2024) US

(72) Inventor; and
(71) Applicant: **VIETH, Reinhold** [CA/CA]; 27 Chester Hill Road, Toronto, Ontario M4K 1X4 (CA).

(74) Agent: **INNOVATE LLP**; 340 King Street East, 4th Floor, Toronto, Ontario M5A 1K8 (CA).

(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, CV, 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, MG, MK, MN, MU, 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, UY, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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:
— *with international search report (Art. 21(3))*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
— *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*

WO 2025/177250 A1

(54) Title: COMPOSITIONS AND METHODS FOR INCREASING TEAR SECRETION

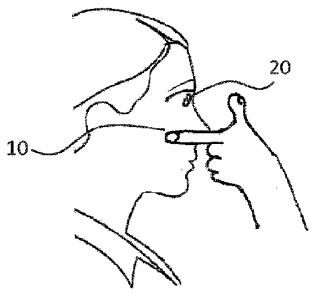


Figure 3

(57) Abstract: The present invention provides a composition to increase tear production to relieve irritation from dry eyes, and a method for application of the composition. The composition includes at least 5% menthol and a carrier. The carrier comprises at least one of: a triglyceride oil, a medium chain triglyceride, petroleum jelly, coconut oil, olive oil, beeswax, a wax that is semi-solid at 21 C, a vegetable wax, an animal wax, a petroleum wax, a mineral wax, a synthetic wax, vaseline, lanoline, hydrogenated rosin/glyceryl di-isostearate, hydrogenated polyisobutene, polyethylene, fatty acid cholesteryl, higher fatty acid esters, aliphatic alcohols, squalene, polyethyleneglycol, higher fatty acids, animal oil, and vegetable oil. The method includes delivering the composition to a user's eye.