



(51) International Patent Classification:

A61K 47/10 (2017.01) A61K 47/12 (2006.01)
A61K 9/00 (2006.01)

(21) International Application Number:

PCT/IB2024/062765

(22) International Filing Date:

17 December 2024 (17.12.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

202321086964 19 December 2023 (19.12.2023) IN

(71) Applicant: **GLENMARK SPECIALTY S.A.** [CH/CH];
Place du Port 2, 2000 Neuchatel (CH).

(72) Inventors: **OTAVKAR, Roopali**; Glenmark Pharmaceuticals Limited, M-4, Talaja MIDC, Taluka Panvel, District Raigad, Maharashtra, Navi Mumbai 410208 (IN). **ABRAHAM, Jaya**; Glenmark Pharmaceuticals Limited, M-4, Talaja MIDC, Taluka Panvel, District Raigad, Maharashtra, Navi Mumbai 410208 (IN). **BANGAR, Ganesh**; Glenmark Pharmaceuticals Limited, M-4, Talaja MIDC, Taluka Panvel, District Raigad, Maharashtra, Navi Mumbai 410208 (IN). **DHUPPAD, Ulhas**; Glenmark Pharmaceuticals Limited, M-4, Talaja MIDC, Taluka Panvel, District Raigad, Maharashtra, Navi Mumbai 410208 (IN). **KULKARNI, Abhay**; Glenmark Research Centre, Plot No. A-607,

T.T.C. Industrial Area, M.I.D.C., Mahape, Maharashtra, Navi Mumbai 400709 (IN). **GANDHI, Maulik**; Glenmark Research Centre, Plot No. A-607, T.T.C. Industrial Area, M.I.D.C., Mahape, Maharashtra, Navi Mumbai 400709 (IN). **UDUPA, Venkatesh**; Glenmark Research Centre, Plot No. A-607, T.T.C. Industrial Area, M.I.D.C., Mahape, Maharashtra, Navi Mumbai 400709 (IN). **PAWAR, Pramod**; Glenmark Research Centre, Plot No. A-607, T.T.C. Industrial Area, M.I.D.C., Mahape, Maharashtra, Navi Mumbai 400709 (IN). **CHOPADE, Atul**; Glenmark Pharmaceuticals Limited, M-4, Talaja MIDC, Taluka Panvel, District Raigad, Maharashtra, Navi Mumbai 410208 (IN).

(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, 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,

(54) Title: TOPICAL COMPOSITION COMPRISING DUTASTERIDE AND MINOXIDIL FOR ALOPECIA

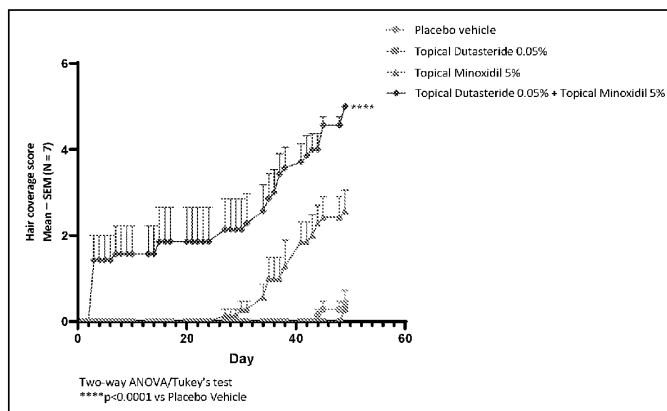


Figure-1A

(57) Abstract: The invention relates to a composition comprising minoxidil and dutasteride with one or more pharmaceutically acceptable excipient. Further the invention relates to process of preparing such composition. Further the invention relates to topical application of the composition for preventing hair loss and/or stimulating hair growth. Further invention relates to achieving acceptable pharmacokinetic parameters to give beneficial therapeutic effect with minimal side effects.

[Continued on next page]

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).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *of inventorship (Rule 4.17(iv))*

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*