

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
20 March 2025 (20.03.2025)



(10) International Publication Number
WO 2025/056542 A1

(51) International Patent Classification:

A61K 8/64 (2006.01) *A61Q 11/00* (2006.01)
A61P 1/02 (2006.01) *A61K 8/21* (2006.01)

(21) International Application Number:

PCT/EP2024/075249

(22) International Filing Date:

10 September 2024 (10.09.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

18/464,817 11 September 2023 (11.09.2023) US

(71) Applicant: **CREDENTIS AG** [CH/CH]; Gubelstrasse 24,
6300 Zug (CH).

(72) Inventors: **NAIK, Divya Devidas**; c/o vVARDIS AG,
Gubelstrasse 24, 6300 Zug (CH). **MASSIGNANI, Marzia**;
c/o vVARDIS AG, Gubelstrasse 24, 6300 Zug (CH). **ABI-
VARDI BRÖNNER, Haleh**; c/o vVARDIS AG, Gubel-
strasse 24, 6300 Zug (CH). **ABIVARDI SIGNER, Gol-
nar**; c/o vVARDIS AG, Gubelstrasse 24, 6300 Zug (CH).
HUG, Michael; c/o vVARDIS AG, Gubelstrasse 24, 6300
Zug (CH). **LYSEK, Dominikus Amadeus**; c/o vVARDIS
AG, Gubelstrasse 24, 6300 Zug (CH).

(74) Agent: **MOREÉ, Solveig**; Bavariaring 20, 80336 München
(DE).

(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,
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))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: DENTAL CARE PRODUCTS COMPRISING STANNOUS FLUORIDE

(57) Abstract: The present invention provides new dental care products comprising stannous fluoride and at least 0.01 wt% self-assembling peptides, wherein the self-assembling peptides are essentially present in the dental care product in assembled form. The assembled peptides form a three-dimensional matrix capable of stabilizing stannous fluoride by protecting it from oxidation. The dental care products may further comprise polyphosphates such as sodium tripolyphosphates as well as a tin chelating agent such as sodium gluconate. They may be provided in the form of a dental gel, a toothpaste, a tooth foam, dental rinse or a prophylactic paste. Also disclosed are methods for stabilizing stannous fluoride in a dental care product. Finally, the present invention relates to therapeutic methods for protecting a tooth from demineralization, for remineralizing the tooth enamel of a non-cavitated tooth lesion, for destroying bio-film formed on tooth and for treating dentinal hypersensitivity.



WO 2025/056542 A1