

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 December 2023 (14.12.2023)



(10) International Publication Number
WO 2023/237431 A1

(51) International Patent Classification:

A61K 9/48 (2006.01) A61K 31/167 (2006.01)
A61K 9/70 (2006.01) A61P 1/00 (2006.01)

(21) International Application Number:

PCT/EP2023/064795

(22) International Filing Date:

02 June 2023 (02.06.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

22177671.9 07 June 2022 (07.06.2022) EP
22213446.2 14 December 2022 (14.12.2022) EP

(71) Applicant: **ESOCAP AG** [CH/CH]; Malzgasse 9, 4052 Basel (CH).

(72) Inventors: **WEITSCHIES, Werner**; Kornblumenweg 14, 17498 Neuenkirchen (DE). **ROSENBAUM, Christoph**; Bahnhofstr. 52, 17489 Greifswald (DE). **KRAUSE, Julius**; Busdorfer Str. 14, 17498 Behrenhoff (DE). **BROKMANN, Friederike**; Anklamer Str. 37, 17489 Greifswald (DE). **MÜLLER, Sabine**; Blumenthalstr. 66, 13156 Berlin (DE).

WEIDE, Aileen; Walther-Rathenau-Str. 30, 17489 Greifswald (DE). **APPEL, Bettina**; Erich-Kästner-Str. 6, 17489 Greifswald (DE).

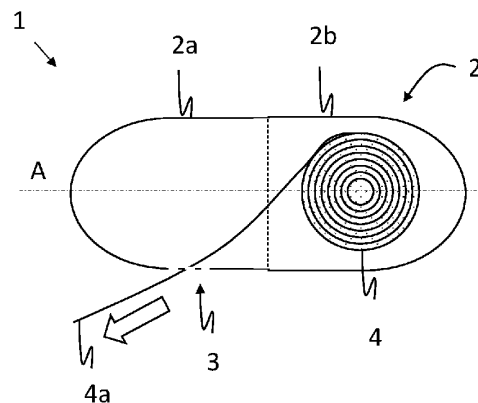
(74) Agent: **WALLINGER RICKER SCHLOTTER TOST-MANN**; Patent- und Rechtsanwälte, Partnerschaft mbB, Zweibrückenstr. 5-7, 80331 Munich (DE).

(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,

(54) Title: DRUG DELIVERY SYSTEM COMPRISING AN AGENT EFFECTIVE IN THE TREATMENT OR PREVENTION OF AN ESOPHAGEAL DISEASE FOR THE APPLICATION TO ESOPHAGEAL MUCOUS MEMBRANES

Fig. 1a



(57) Abstract: The present invention relates to a drug delivery system for the application to an esophageal mucous membrane, comprising at least one sheet like, in particular film shaped, foil shaped or wafer shaped preparation comprising an agent effective in the treatment or prevention of an esophageal disease, a release mechanism, and a trigger mechanism, wherein the trigger mechanism is adapted to trigger, at a predetermined site of action the release of the sheet like preparation by the release mechanism.

[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).

Published:

- *with international search report (Art. 21(3))*
- *with sequence listing part of description (Rule 5.2(a))*