

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 February 2022 (17.02.2022)



(10) International Publication Number
WO 2022/036271 A1

(51) International Patent Classification:
A61F 7/00 (2006.01) *A61B 18/12* (2006.01)

(21) International Application Number:
PCT/US2021/046023

(22) International Filing Date:
13 August 2021 (13.08.2021)

(25) Filing Language: English

(26) Publication Language: English

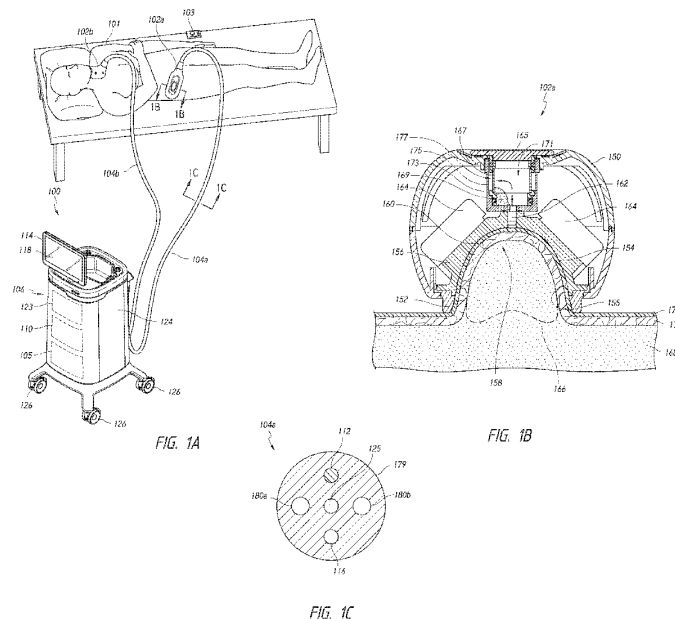
(30) Priority Data:
63/065,946 14 August 2020 (14.08.2020) US

(71) Applicant: **ZELTIQ AESTHETICS, INC.** [US/US];
4410 Rosewood Drive, Pleasanton, California 94588 (US).

(72) Inventors; and
(71) Applicants: **BAKER, Mark, William** [US/US]; 5422
Betty Circle, Livermore, California 94550 (US). **COAK-**

LEY, Joseph [US/US]; 11732 Casa Linda Court, Dublin, California 94568 (US). **FRANGINEAS, George, Jr.** [US/US]; 235 Quinault Way, Fremont, California 94539 (US). **GAUTHIER, Russell, Lee** [US/US]; 6248 Amber Lane, Pleasanton, California 94566 (US). **GOMES, Roy, Christopher** [US/US]; 9772 Mennet Way, San Ramon, California 94583 (US). **HEKE, Clive** [US/US]; 4698 Willow Road, Pleasanton, California 94588 (US). **KORDES, Kurt, Arthur** [US/US]; 1370 Hampton Place, Livermore, California 94550 (US). **MCCALL, Mark, Allen** [US/US]; 2995 Shasta Road, Berkeley, California 94708 (US). **PENNYBACKER, William, P.** [US/US]; 626 Highland Street, Livermore, California 94551 (US). **ROOT, Austin** [US/US]; 3443 Ashton Court, Pleasanton, California 94588 (US). **SAUNDERS, Ralph, Edward** [US/US]; 4030 Reedland Circle, San Ramon, California 94582 (US). **STIVERS, Teri, L.** [US/US]; 9040 Doubletree Lane, Liv-

(54) Title: MULTI-APPLICATOR SYSTEM AND METHOD FOR BODY CONTOURING



(57) Abstract: Systems, methods, and devices for treating a subject are described herein. In some embodiments, an applicator for selectively affecting a subject's subcutaneous tissue is provided. The applicator can include: a housing; a treatment cup mounted in the housing, wherein the treatment cup defines a tissue-receiving cavity and includes a temperature-controlled surface; at least one thermal device coupled to the treatment cup and configured to receive energy via a flexible connector coupled to the applicator and to cool the temperature-controlled surface; an at least one vacuum port coupled to the treatment cup and configured to provide a vacuum to draw the subject's tissue into the tissue-receiving cavity and against at least a portion of a treatment area of the temperature-controlled surface to selectively damage and/or reduce the subject's subcutaneous tissue.

[Continued on next page]

ermore, California 94551 (US). **YEE, Peter** [US/US]; 20
Portsmouth Court, San Ramon, California 94582 (US).

(74) **Agent: KLASSEN, Karl**; Perkins Coie LLP, P.O. Box
1247, Seattle, Washington 98111 (US).

(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, IR, IS, IT, 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).

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))*