# The United States of America



## The Director of the United States Patent and Trademark Office

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under law.

Therefore, this

### **UNITED STATES PATENT**

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121, or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

Am W. Dudas

The Director of the United States Patent and Trademark Office

Brenda Moore

# (12) United States Design Patent (10) Patent No.:

Alinsod et al.

US D824,028 S

(45) Date of Patent: Jul. 24, 2018

#### (54) RADIOFREQUENCY TREATMENT PROBE FOR TREATING VAGINAL LAXITY

- (71) Applicant: ThermiGen, LLC, Southlake, TX (US)
- (72) Inventors: **Red Alinsod**, Laguna Beach, CA (US); Paul R. Herchman, Jr., Grapevine, TX (US); Kevin D. O'Brien, Coppell, TX

(73) Assignee: THERMIGEN, LLC, Southlake, TX

(US)

- (\*\*) Term: 15 Years
- (21) Appl. No.: 29/601,592
- (22) Filed: Apr. 24, 2017

#### Related U.S. Application Data

- Continuation of application No. 14/641,435, filed on Mar. 9, 2015, which is a continuation-in-part of application No. 14/591,002, filed on Jan. 7, 2015.
- (51) LOC (11) Cl. ...... 24-02
- (52) U.S. Cl. USPC ...... **D24/144**
- (58) Field of Classification Search USPC ...... D24/144, 146, 141, 133, 107 CPC .... A61N 1/0524; A61N 1/05; A61B 18/1485; A61B 18/14; A61B 18/04; A61B 18/08; A61B 18/082; A61B 2018/00559; A61B 2018/00523

See application file for complete search history.

#### (56)**References Cited**

#### U.S. PATENT DOCUMENTS

4,693,244 A *	9/1987	Daikuzono	 A61B 18/22
			606/16

4.823.814 A 4/1989 Drogendijk et al.

5,103,804 A *	4/1992	Abele A61B 18/08				
		600/104				
5,143,063 A	9/1992	Fellner				
5,611,768 A	3/1997	Tutrone				
5,771,899 A	6/1998	Martelly et al.				
5,843,078 A	12/1998	Sharkey				
5,894,842 A	4/1999	Rabin et al.				
6,158,435 A	12/2000	Dorsey				
6,189,535 B1	2/2001	Enhorning				
6,241,753 B1	6/2001	Knowlton				
6,383,184 B1	5/2002	Sharkey				
D493,531 S *	7/2004	Padain D24/144				
6,836,688 B2	12/2004	Ingle et al.				
6,840,954 B2	1/2005	Dietz et al.				
6,882,885 B2	4/2005	Levy et al.				
7,094,252 B2	8/2006	Koop				
(Continued)						

#### OTHER PUBLICATIONS

Dmochoski, R. et al. "Transvaginal Radio Frequency Treatment of the Endopelvic Fascia: a Prospective Evaluation for the Treatment of Genuine Stress Urinary Incontinence" J. Urol. vol. 169, Issue 3, pp. 1028-1032 (2003).

(Continued)

Primary Examiner — Wan Laymon

(74) Attorney, Agent, or Firm — Hoxie & Associates LLC

#### (57)CLAIM

The ornamental design for a radiofrequency treatment probe for treating vaginal laxity, as shown and described.

#### DESCRIPTION

FIG. 1 illustrates a front, side perspective view of a radiofrequency treatment probe for treating vaginal laxity in accordance with a first embodiment of the present disclosure: and.

FIG. 2 illustrates a front, side perspective view of a second embodiment in accordance with the present disclosure.

#### 1 Claim, 1 Drawing Sheet





#### (56) References Cited

#### U.S. PATENT DOCUMENTS

7,167,757 B2 1/2007	Ingle et al.
	Brockman A61N 1/0524
	482/121
8,103,355 B2 1/2012	Mulholland
8,317,782 B1 11/2012	Ellman et al.
8,845,630 B2 9/2014	Mehta et al.
-,,	Parmer
9,095,351 B2 8/2015	Sachs et al.
9,095,357 B2 8/2015	Manstein
9,345,874 B2 * 5/2016	Bozzarelli A61N 1/0524
9,415,235 B2 8/2016	Galen et al.
9,468,774 B2 10/2016	Zarsky et al.
9,498,282 B2 * 11/2016	Fernald A61B 18/1485
2012/0271206 A1 10/2012	Shalev et al.
2013/0245728 A1 9/2013	Galen et al.
2014/0148878 A1 5/2014	Khatri

## OTHER PUBLICATIONS

Zelickson, B. et al. "Histological and Ultrastructural Evaluation of the Effects of a Radiofrequency-Based Nonablative Dermal Remodeling Device", JAMA, vol. 140, p. 204-209, (2004).

<sup>\*</sup> cited by examiner

