US00D888957S

(12) United States Design Patent

Pikkula et al.

(10) Patent No.: US D888,957 S
(45) Date of Patent: ** Jun. 30, 2020

(54) **SKIN CANCER SCREENING DEVICE**

(71) Applicant: **Forward Science Technologies, LLC**, Stafford, TX (US)

(72) Inventors: **Brian Pikkula**, Sugar Land, TX (US); **Robert Whitman**, Houston, TX (US)

(73) Assignee: **Forward Science Technologies, LLC**, Stafford, TX (US)

(**) Term: **15 Years**

(21) Appl. No.: **29/670,462**

(22) Filed: **Nov. 15, 2018**

(51) **LOC (12) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/152**; D24/158

(58) **Field of Classification Search**
USPC D24/152, 154, 156, 158, 185, 209, 107, D24/200; D26/49, 36; D28/7; D9/537, D9/558; 433/141, 229; 600/473, 407, 600/476, 249; 362/804; 606/9
CPC ... A61B 1/0646; A61B 5/0059; A61B 5/0062; A61B 5/44; A61B 5/441; A61B 5/444; A61B 5/445
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D417,022	S *	11/1999	Chiu	D26/49
D521,666	S	5/2006	Chean	
D526,431	S	8/2006	Shiu	
D526,730	S	8/2006	Galli	
D567,415	S	4/2008	Shiu	
D574,982	S	8/2008	Lau	
D578,687	S	10/2008	Hong	
7,522,825	B2 *	4/2009	Kenet	A61B 5/444 396/14
D596,771	S	7/2009	Lee	
7,726,863	B2	6/2010	Brandstaetter et al.	
7,802,898	B1	9/2010	Gregory et al.	

(Continued)

FOREIGN PATENT DOCUMENTS

EP	1693021	A1	8/2005
WO	WO 2009-097154	A1	8/2009

OTHER PUBLICATIONS

Kang et al., *A handheld device for potential point-of-care screening of cancer*, The Analyst, 132, 745-749 (2007).

(Continued)

Primary Examiner — Wan Laymon
(74) *Attorney, Agent, or Firm* — Leydig, Voit & Mayer, Ltd.

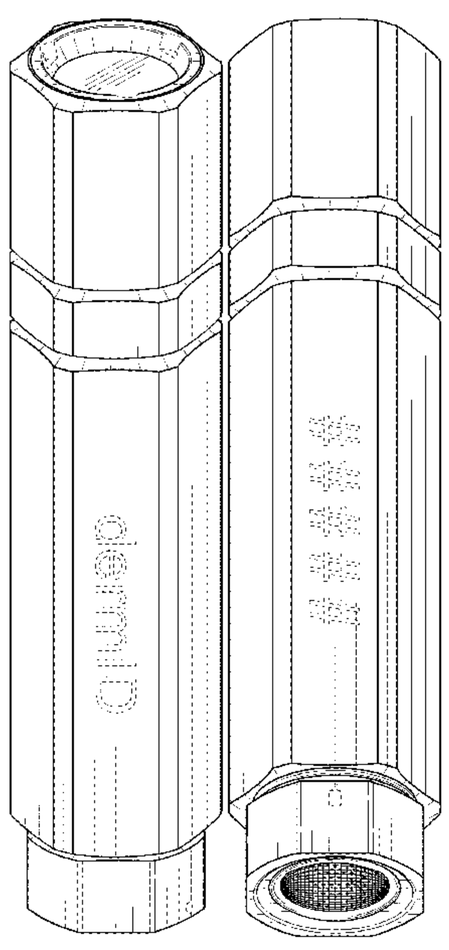
(57) **CLAIM**

The ornamental design for a skin cancer screening device, as shown and described.

DESCRIPTION

FIG. **1** is a left front top perspective view of the skin cancer screening device showing our new design;
FIG. **2** is a right back bottom perspective view of the skin cancer screening device;
FIG. **3** is a front view of the skin cancer screening device;
FIG. **4** is a back view of the skin cancer screening device;
FIG. **5** is a left side view of skin cancer screening device;
FIG. **6** is a right side view of the skin cancer screening device;
FIG. **7** is a top view of the skin cancer screening device; and,
FIG. **8** is a bottom view of the skin cancer screening device.
The broken lines shown in the drawings are included for the purpose of illustrating portions of the skin cancer screening device and form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D643,561	S	8/2011	Maglica	
7,996,068	B2	8/2011	Telischak et al.	
8,337,201	B1	12/2012	Mace	
D683,453	S	5/2013	Dubey et al.	
D715,937	S	10/2014	Pikkula et al.	
8,882,819	B2 *	11/2014	Crowder	A61B 18/20 606/9
D720,067	S	12/2014	Rosenquist	
9,539,438	B2 *	1/2017	Pan	A61B 5/0059
2005/0080343	A1	4/2005	Richards-Kortum et al.	
2006/0240375	A1	10/2006	Soukos et al.	
2009/0323344	A1	12/2009	Crawford et al.	
2010/0036260	A1	2/2010	Zuluaga et al.	
2010/0216086	A1	8/2010	Sylvester et al.	
2010/0254149	A1	10/2010	Gill	
2015/0070480	A1	3/2015	Pikkula et al.	
2016/0000308	A1	1/2016	Pikkula et al.	

OTHER PUBLICATIONS

Kong et al., *Handheld erythema and bruise detector*, Medical Imaging 2008: Computer-Aided Diagnosis, Proc. of SPIE, vol. 69153 (2018).

Massone et al., *Melanoma Screening with Cellular Phones*. PLoS ONE 2(5): e483 (2007).

Mehrotra et al., *Exciting new advances in oral cancer diagnosis: avenues to early detection*, Head and Neck Oncology, 3: 33 (2011).

Wadhawn et al., *SkinScan: A Portable Library for Melanoma Detection on Handheld Devices*, Departments of Computer Science, Electrical and Computer Engineering, and Engineering Technology, University of Houston, Texas (2011).

Zouridakis et al., *Melanoma and Other Skin Lesion Detection Using Smart Handheld Devices*, Mobile Health Technologies: Methods and Protocols, Methods in Molecular Biology, vol. 1256, Ch. 30 (2015).

* cited by examiner

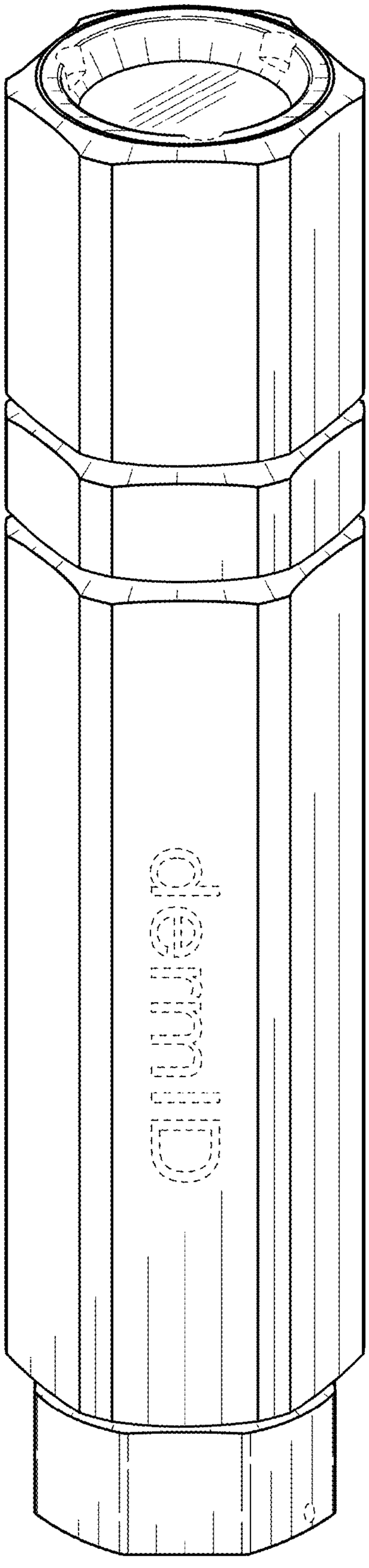


FIG. 1

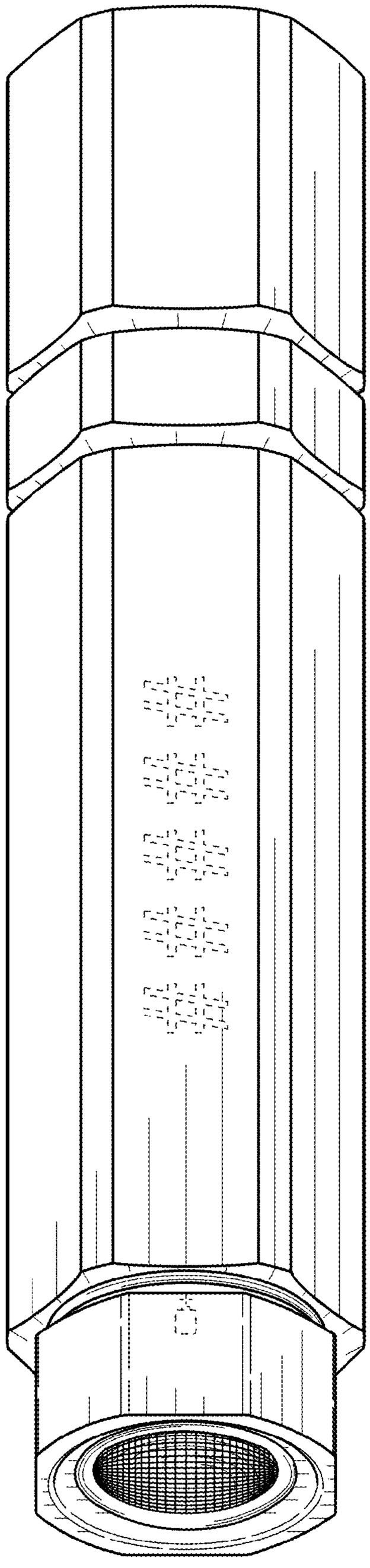


FIG. 2

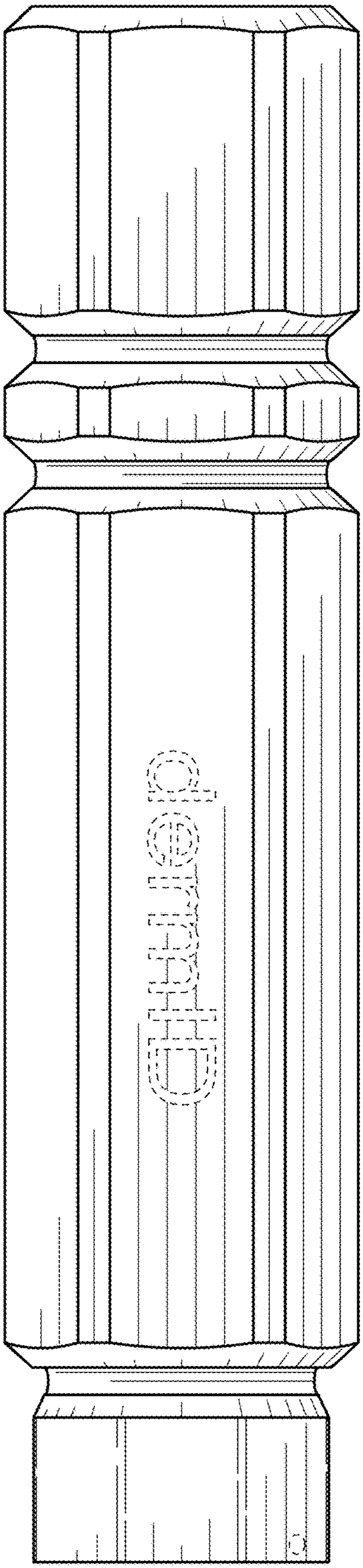


FIG. 3

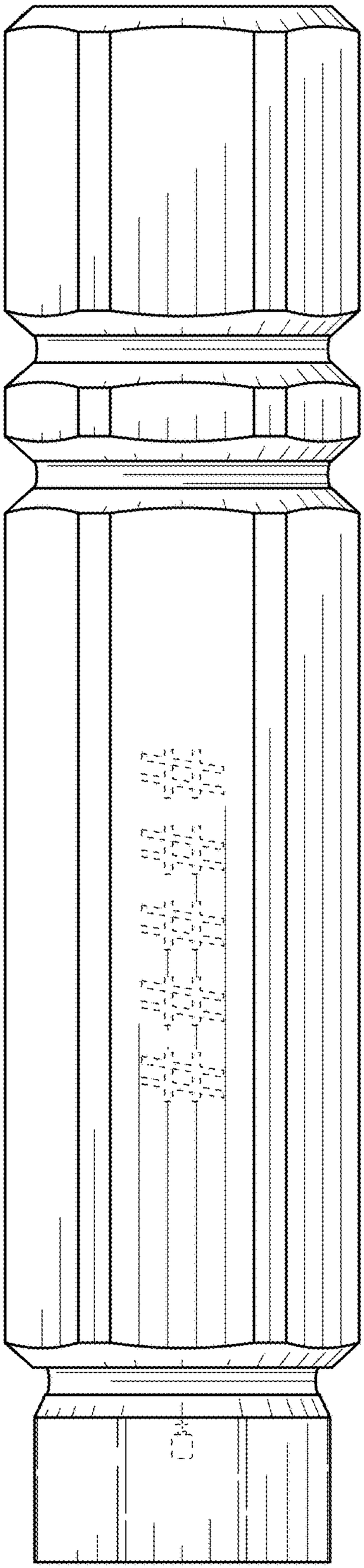


FIG. 4

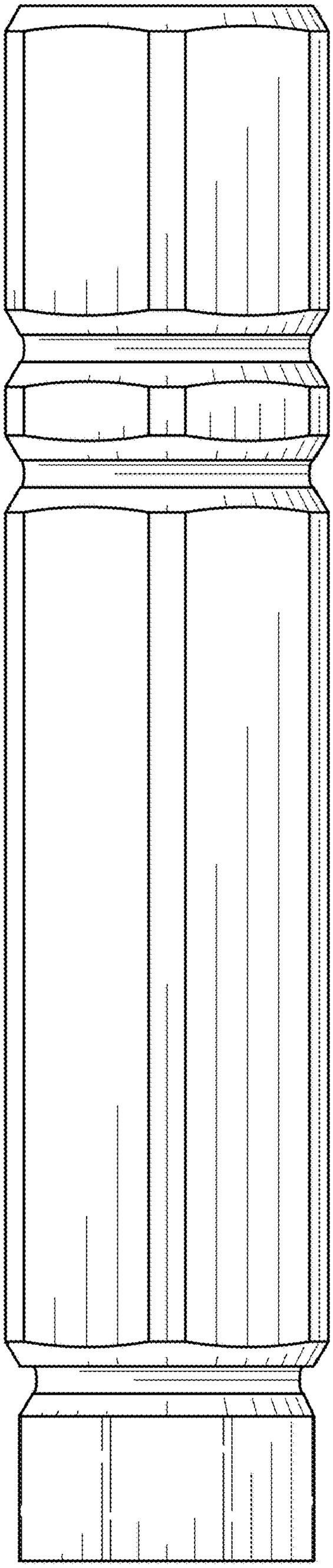


FIG. 5

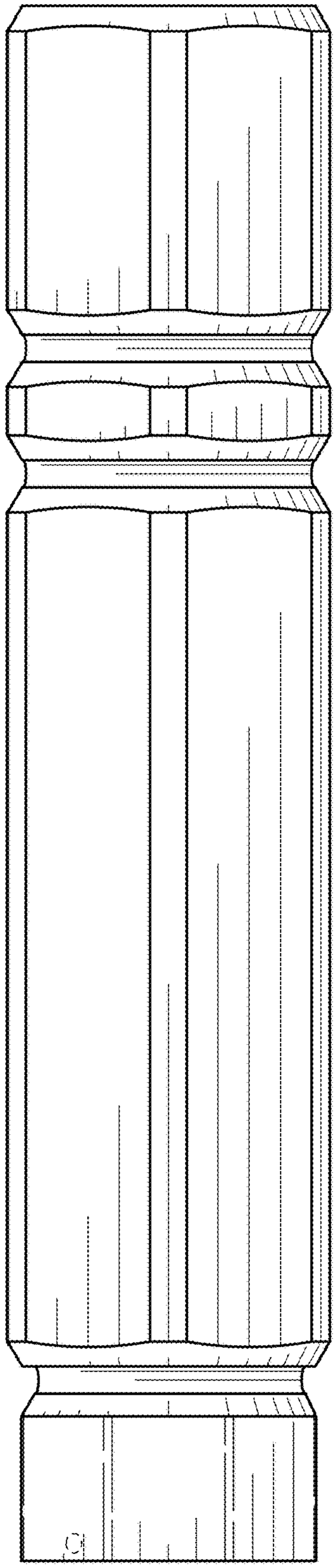


FIG. 6

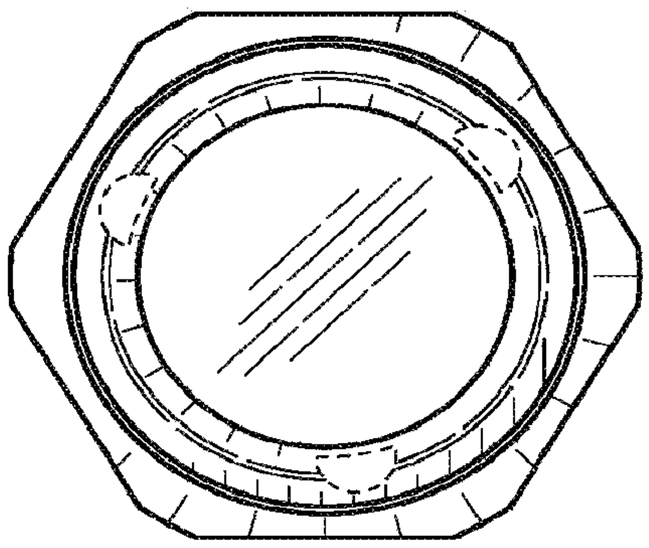


FIG. 7

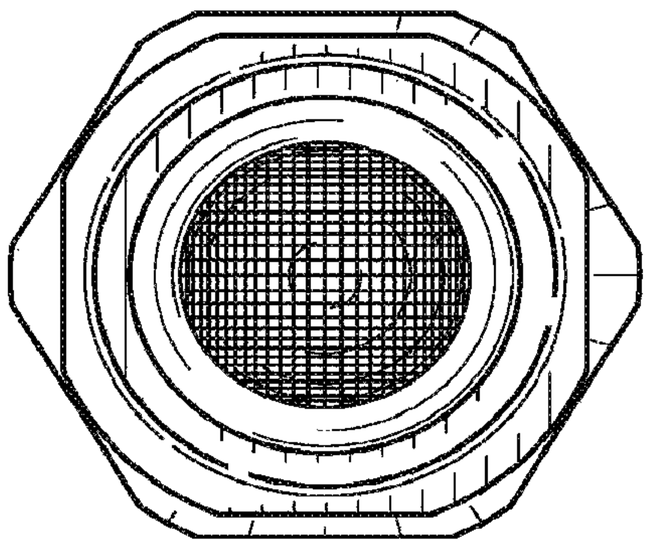


FIG. 8