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(12) **United States Design Patent** (10) **Patent No.:** **US D829,670 S**  
**Nguyen et al.** (45) **Date of Patent:** **\*\* Oct. 2, 2018**

(54) **CONNECTOR ASSEMBLY**

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

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(51) **LOC (11) Cl.** ..... **13-03**

(52) **U.S. Cl.**  
USPC ..... **D13/154**; D13/133; D13/147

(58) **Field of Classification Search**  
USPC ..... D8/349, 350, 353, 354, 355, 356, 359,  
D8/366, 367, 373, 74, 381, 382, 383,  
D8/385; D13/154, 110, 133, 146, 147,  
D13/155, 150, 151, 153, 156, 184, 199;  
D23/254, 262, 265, 266; D24/127-131,  
D24/112-114, 133, 186; 606/181, 185;  
604/264, 523-528, 272, 187, 158,  
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600/101, 139, 143; 128/200.24, 207.14,  
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439/583, 584, 585, 694, 695, 944  
CPC ..... H01R 12/716; H01R 2107/00; H01R  
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See application file for complete search history.

6,017,243 A 1/2000 Castaldo  
D457,604 S \* 5/2002 Chen ..... D23/262  
D480,950 S \* 10/2003 Ellis ..... D8/382  
D482,761 S \* 11/2003 Gotoh ..... D23/233  
D484,031 S \* 12/2003 Ellis ..... D8/387  
D484,036 S \* 12/2003 Koch ..... D8/397  
D496,101 S \* 9/2004 Davison ..... D24/112  
D502,644 S \* 3/2005 Ellis ..... D8/382

(Continued)

**OTHER PUBLICATIONS**

AEM Performance Electronics; "Installation Instructions for PN: 30-8444 Universal Gauge Boot for 52MM (2<sup>1</sup>/<sub>16</sub>" Gauges"; Publication date unknown but prior to filing date of present application, pp. 1-3, Advanced Engine Management Inc., Hawthorne, CA.

(Continued)

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(57) **CLAIM**

The ornamental design for a connector assembly, as shown and described.

**DESCRIPTION**

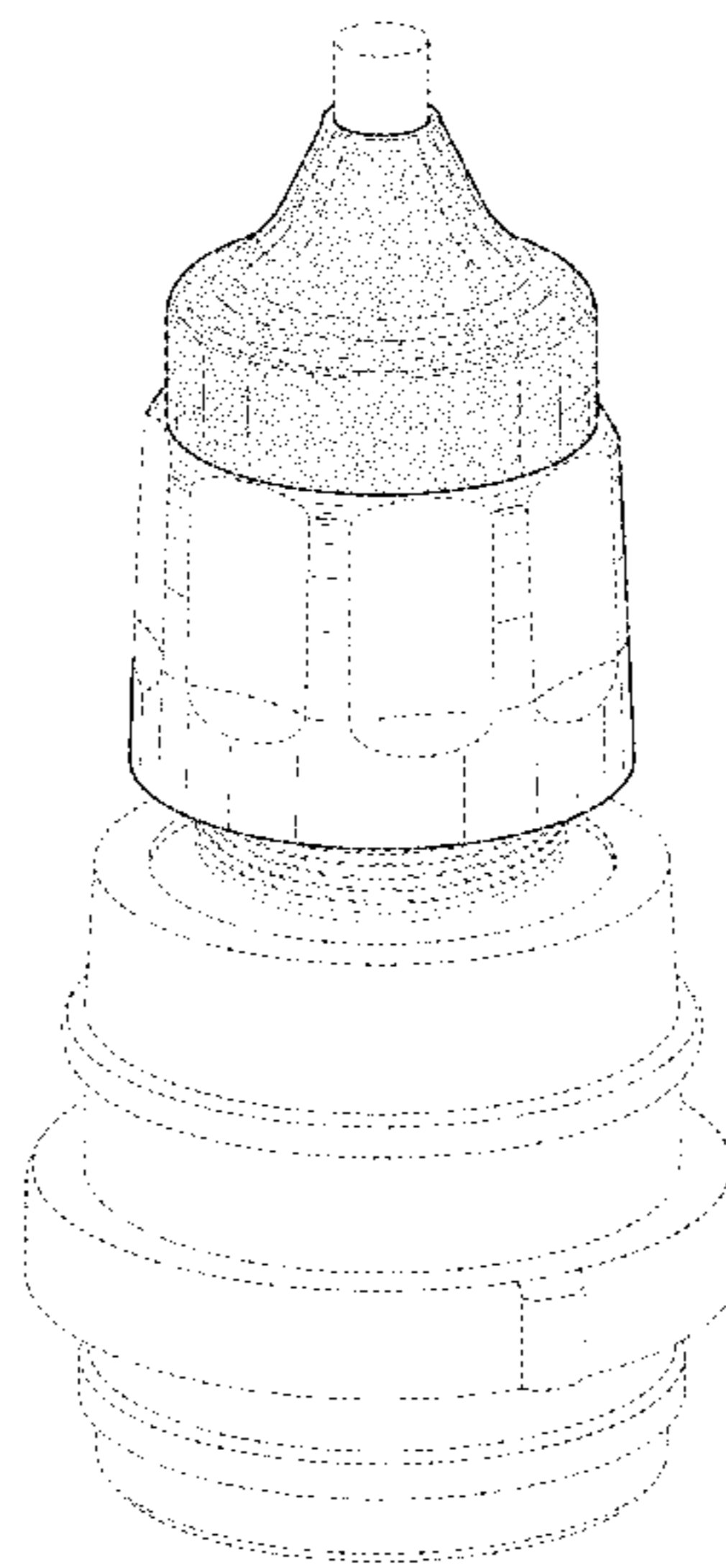
FIG. 1 is a front perspective view of a connector assembly showing our new design;  
FIG. 2 is a front elevation view thereof;  
FIG. 3 is a right side elevation view thereof;  
FIG. 4 is a left side elevation view thereof;  
FIG. 5 is a top plan view thereof; and,  
FIG. 6 is a rear elevation view thereof.  
The broken lines immediately adjacent to the shaded area define the boundary of the claimed design and form and no part thereof. The broken line showing of the remainder of a connector assembly represents unclaimed environmental subject matter and forms no part of the claimed design.

**1 Claim, 6 Drawing Sheets**

(56) **References Cited**

U.S. PATENT DOCUMENTS

D189,794 S \* 2/1961 Weaver ..... D25/133  
D190,582 S \* 6/1961 Schiuske ..... D13/150  
3,167,374 A 1/1965 Healy  
D308,724 S \* 6/1990 Ennis, III ..... D24/112  
5,743,759 A 4/1998 Pudims et al.



(56)

References Cited

U.S. PATENT DOCUMENTS

D517,904	S *	3/2006	Alkalay	.....	D8/382
D519,452	S *	4/2006	Rodrigues	.....	D13/133
D520,351	S *	5/2006	Alkalay	.....	D8/382
D521,941	S *	5/2006	Phung	.....	D13/156
D555,597	S *	11/2007	Phung	.....	D13/133
D568,969	S *	5/2008	Bucchi	.....	D23/262
D569,955	S *	5/2008	Chen	.....	D23/262
D588,991	S *	3/2009	Holliday	.....	D13/151
D590,701	S *	4/2009	Hockman	.....	D8/382
D608,424	S *	1/2010	Katsuta	.....	D23/266
7,857,647	B2	12/2010	Bracci et al.		
D639,915	S *	6/2011	Barton	.....	D23/262
D648,834	S *	11/2011	Gilbert	.....	137/359
D659,103	S *	5/2012	Natoli	.....	D13/156
D662,059	S *	6/2012	Amidon	.....	D13/151
D665,497	S *	8/2012	Marshall	.....	D24/130
D674,088	S *	1/2013	Lev	.....	D24/129
D681,434	S *	5/2013	Wang	.....	D8/387
8,479,383	B2 *	7/2013	Van Swearingen	.....	B23K 20/129 29/828
D691,879	S *	10/2013	Bernard	.....	D8/382
D719,244	S *	12/2014	Yang	.....	D23/262
D751,192	S *	3/2016	She	.....	D24/127
D754,607	S *	4/2016	Hofmann	.....	D13/133
D760,363	S *	6/2016	Yang	.....	D23/262
D760,384	S *	6/2016	Niunoya	.....	D24/127
D777,317	S *	1/2017	Soual	.....	D24/112
D787,054	S *	5/2017	Rini	.....	D24/130
D815,256	S *	4/2018	Norman	.....	D23/259
2011/0226896	A1 *	9/2011	Bessho	.....	B64D 45/02 244/1 A
2012/0323221	A1 *	12/2012	Gallo	.....	A61M 3/0279 604/514

OTHER PUBLICATIONS

Ericson Manufacturing; "Plug, NEMA 5-15 Straight Blade 125V 15A Perma-Kleen Watertight 4X/6P SM 14W47, 1510-PW6P-AM"; Publication date unknown but prior to filing date of present application; Date Accessed: Feb. 13, 2018; URL: < <https://eselect.ericson.com/ecatalog/wiring-devices/en/1510-PW6P-AM>>.

Ericson Manufacturing; "Connector, Perma-Tite NEMA 5-15R 2P/3W Straight Blade 15A 125V 1ph, Safety Yellow, 1610-CW6P"; Publication date unknown but prior to filing date of present application; Date Accessed: Feb. 13, 2018; URL: < <https://eselect.ericson.com/ecatalog/wiring-devices/en/1610-CW6P>>.

AMP Incorporated; "Instruction Sheet Is 7643"; AMP Circular Rubber Sealed Connectors (CRSC); pp. 1-2; AMP Incorporated, Harrisburg, PA.

Hubbell; "Watertight Devices, 15A, 125V, 2 Pole, 3 Wire, Straight Blade Plug"; Publication date unknown but prior to filing date of present application; Hubbell Wiring Device-Kellems; Shelton, CT.

Hubbell; "Watertight Devices, 15A, 125V, 2 Pole, 3 Wire, Straight Blade Connector"; Publication date unknown but prior to filing date of present application; Hubbell Wiring Device-Kellems; Shelton, CT.

Leviton; "15W47, 15 Amp, 125 Volt, NEMA 5-15R, 2P, 3W, Connector, Straight Blade, Industrial Grade, Grounding, Wetguard—Yellow"; Publication date unknown but prior to filing date of present application; pp. 1-2; Date Access: Feb. 16, 2018; URL: < <http://www.leviton.com/en/products/15w47>>.

Leviton; "14W47, 15 Amp, 125 Volt, NEMA 5-15R, 2P, 3W, Plug, Straight Blade, Industrial Grade, Grounding, Netguard—Yellow"; Publication date unknown but prior to filing date of present application; pp. 1-3; Date Access: Feb. 16, 2018; URL: < <http://www.leviton.com/en/products/14w47>>.

\* cited by examiner

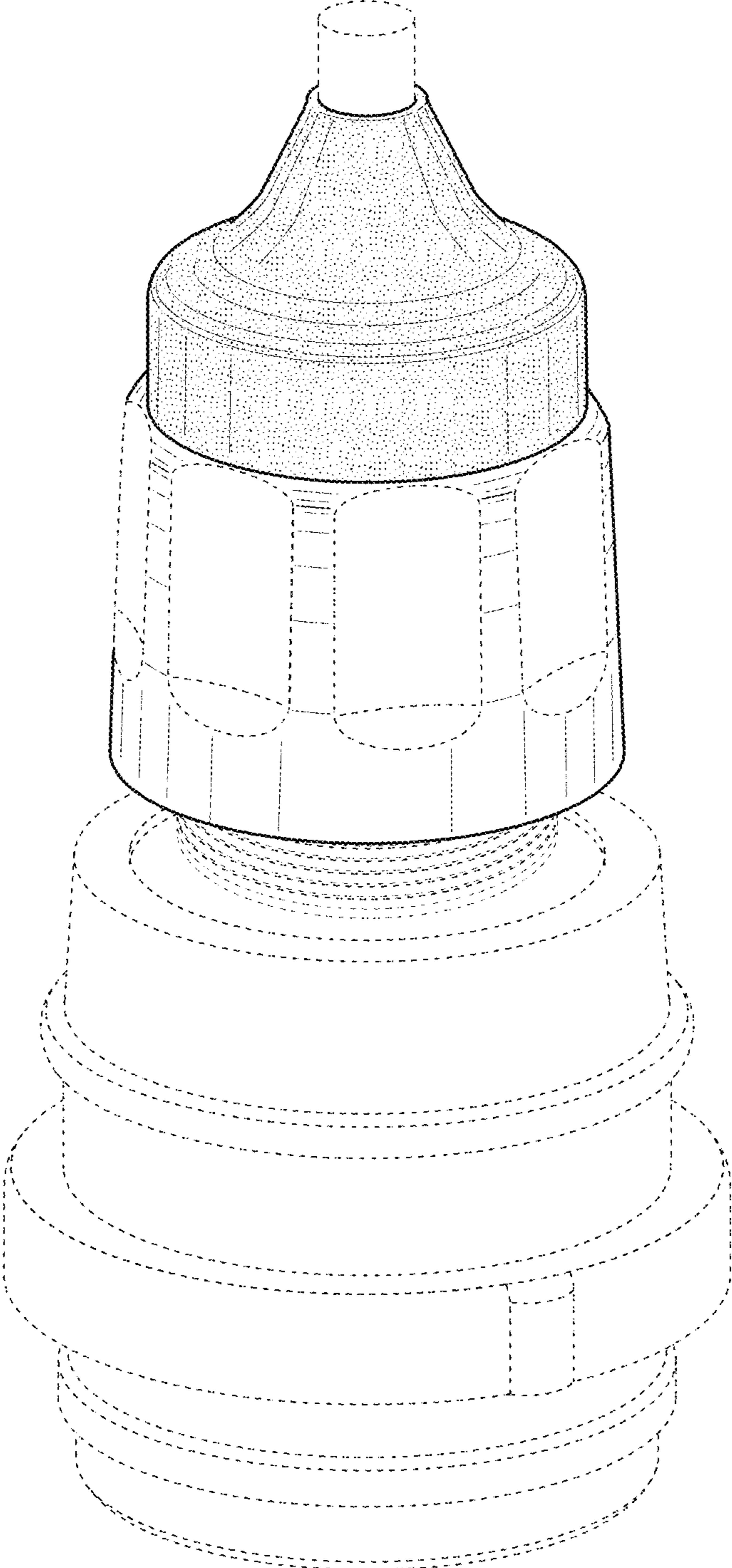


FIG. 1



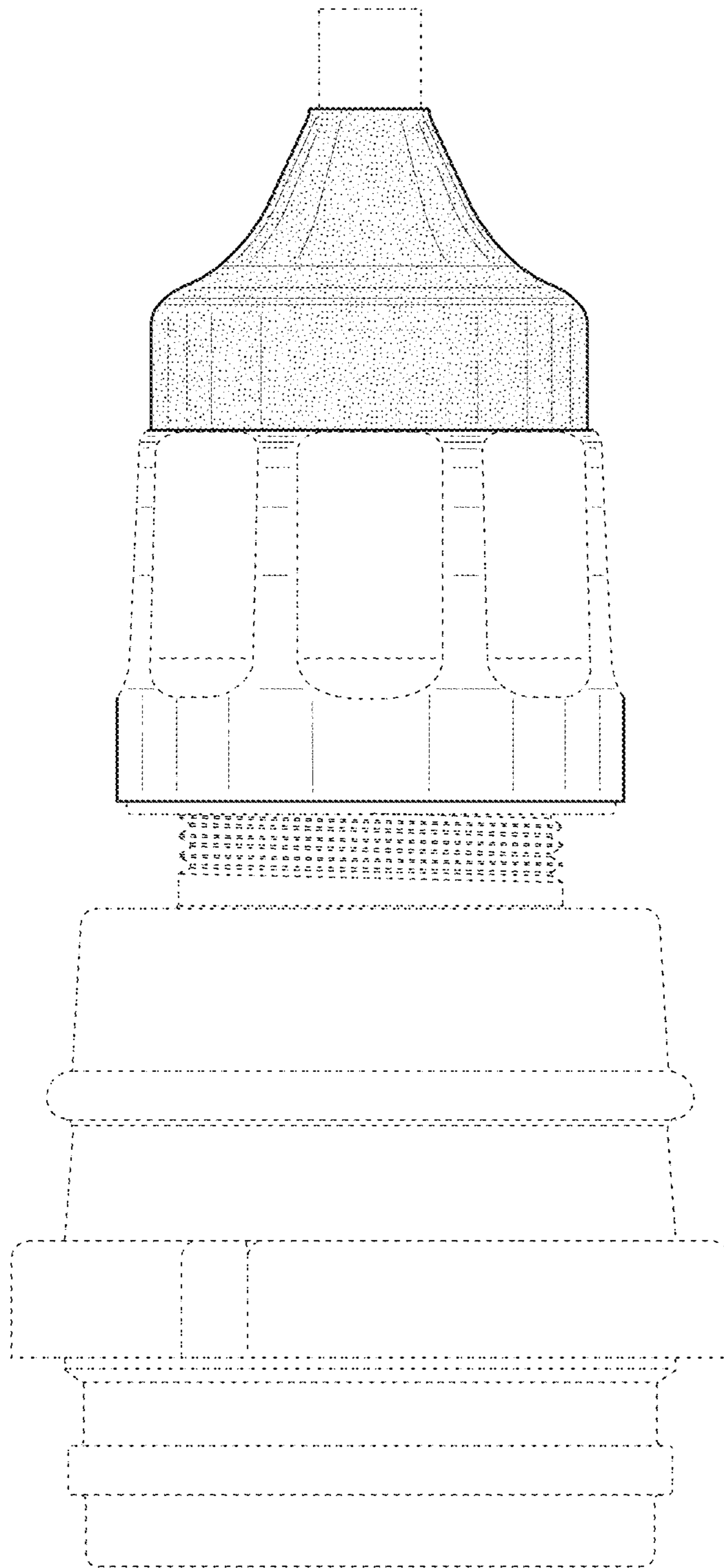


FIG. 2

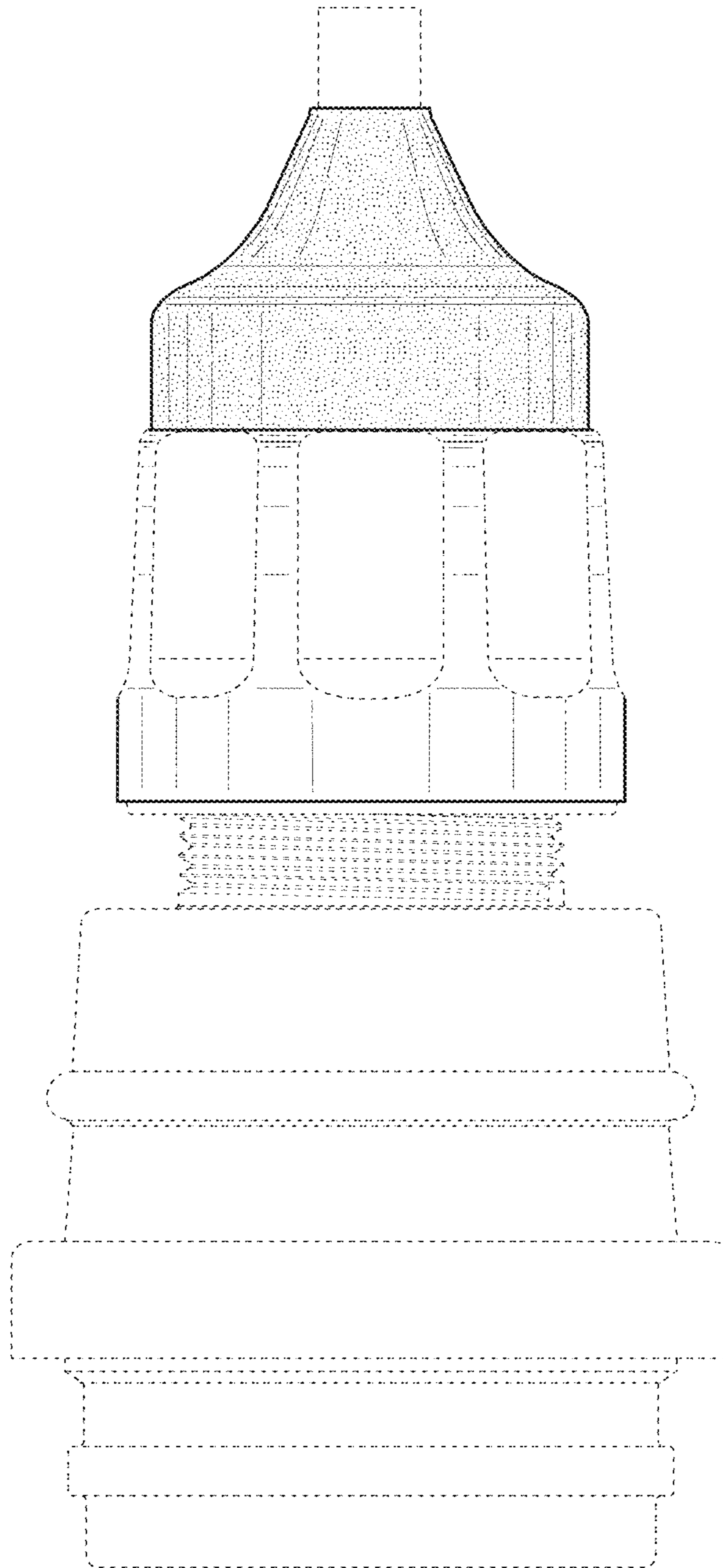


FIG. 3

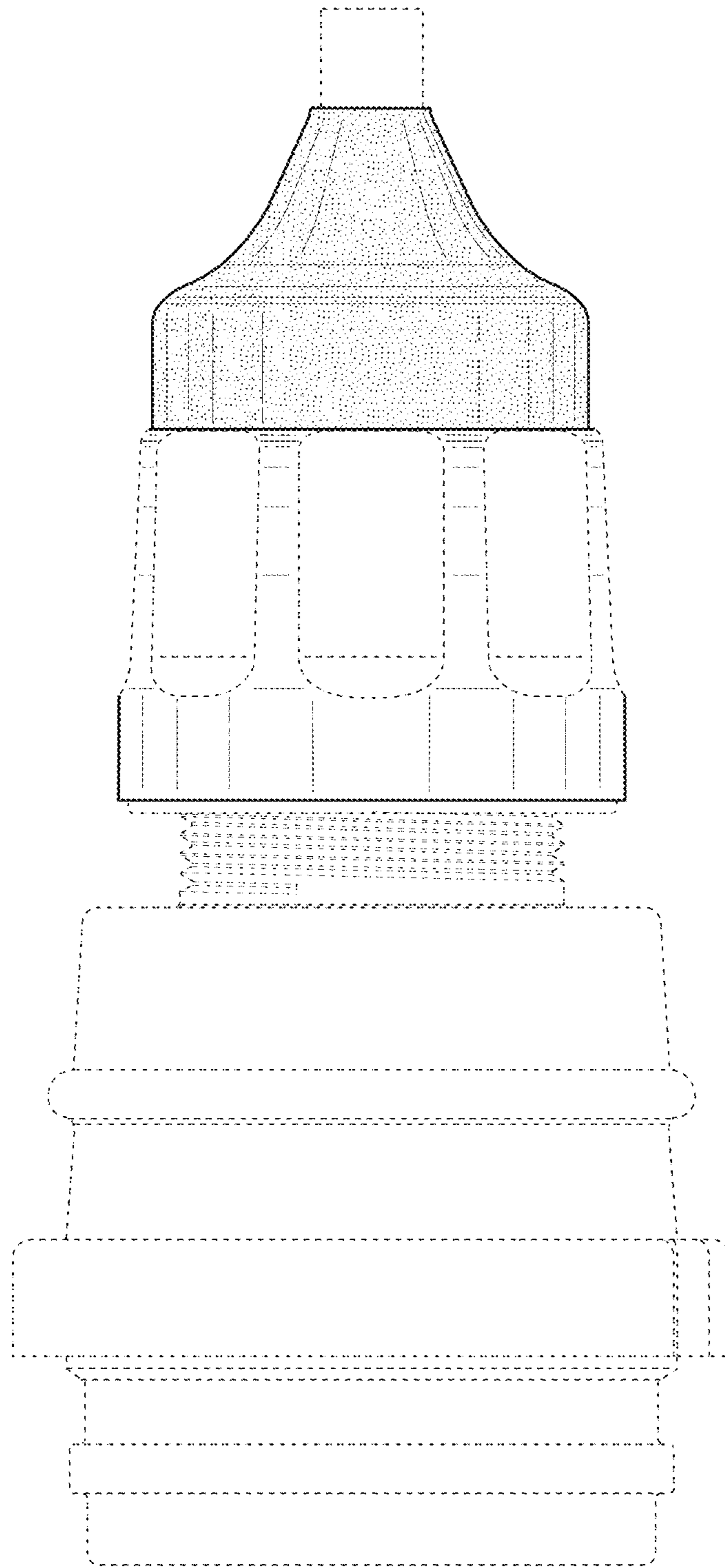
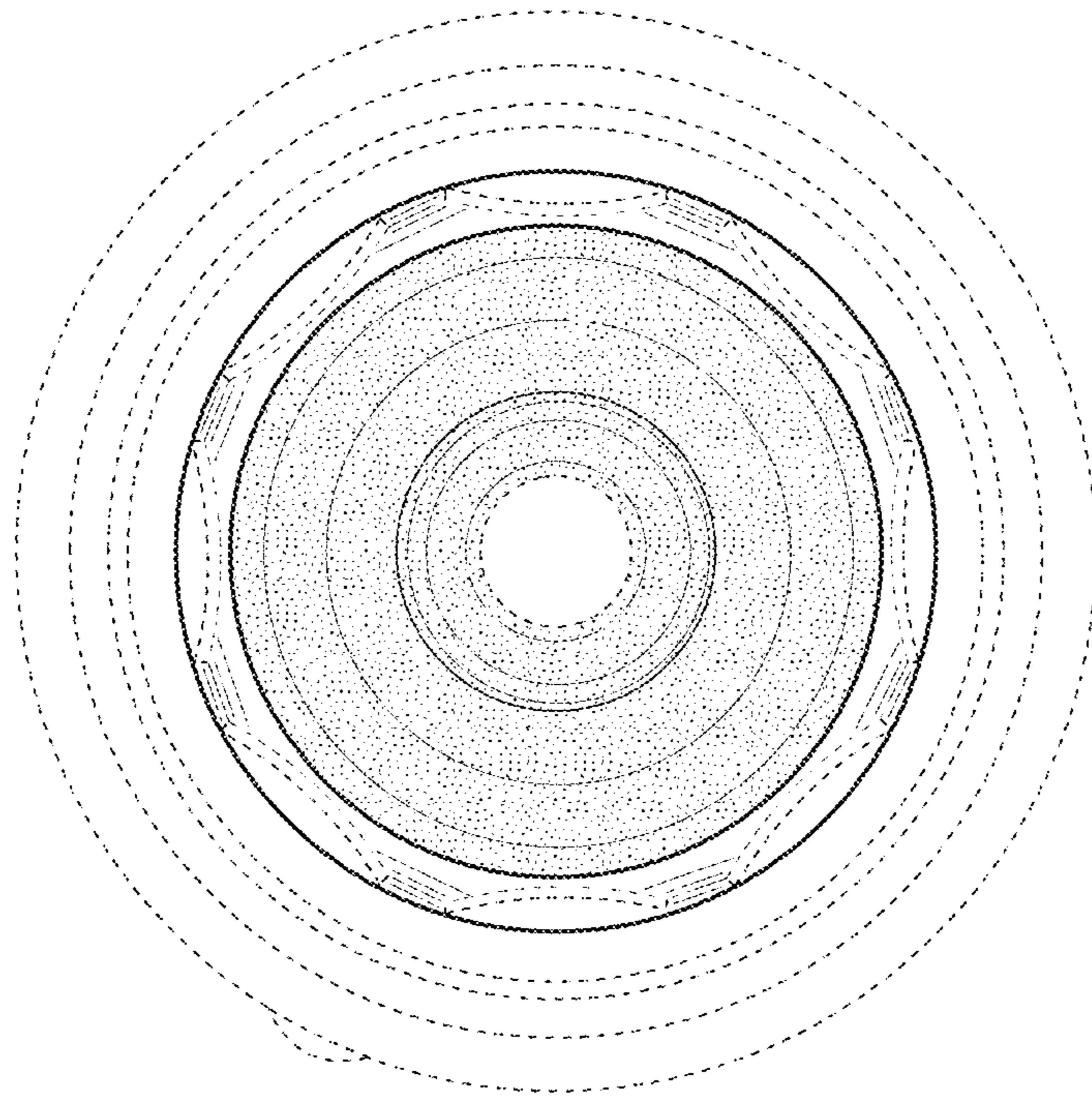


FIG. 4



**FIG. 5**

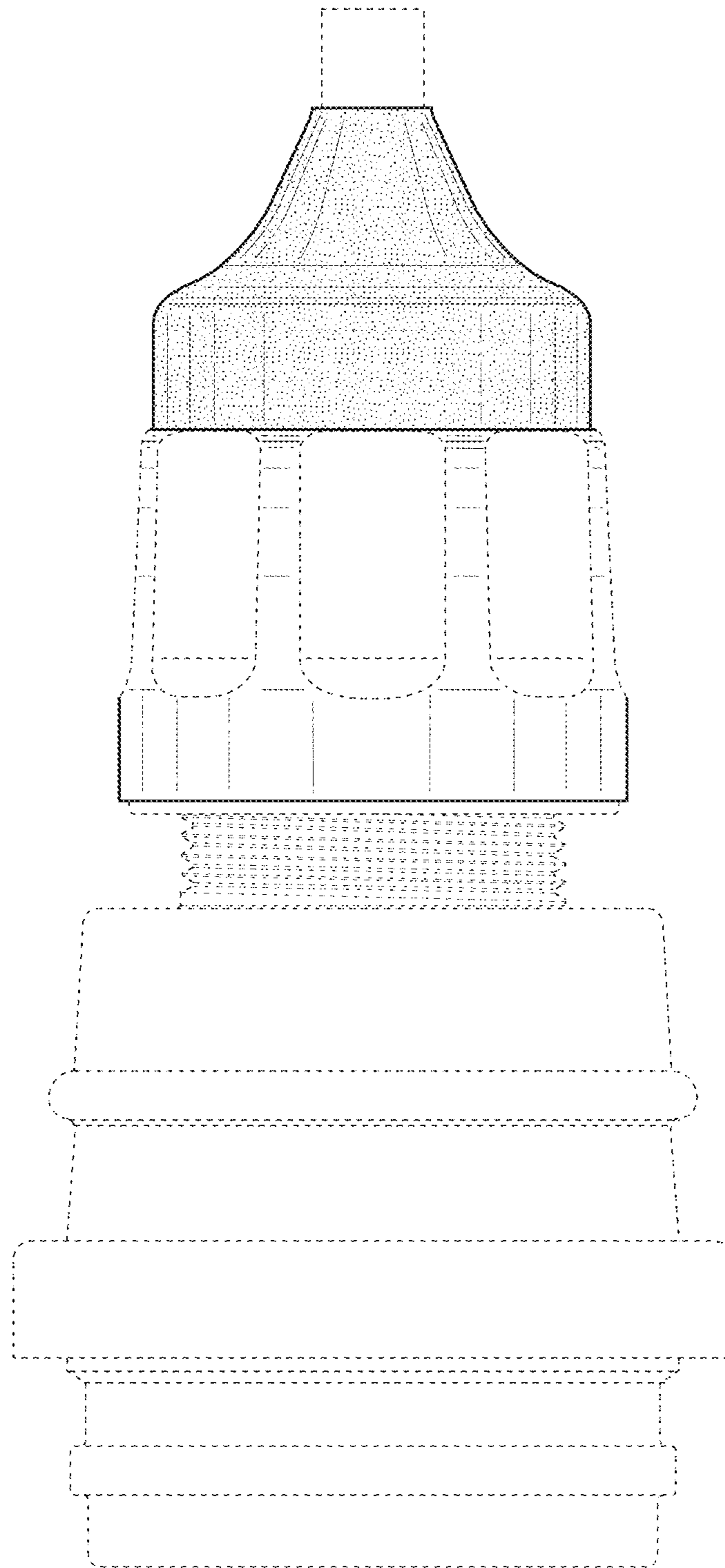


FIG. 6