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(12) **United States Design Patent**
Nguyen et al.

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- (54) **CONNECTOR ASSEMBLY**
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- D332,568 S 1/1993 Ozawa
- D347,467 S 5/1994 Medvick
- D367,467 S 2/1996 Nakamura
- D383,378 S 9/1997 Schrader et al.
- 5,743,759 A 4/1998 Pudims et al.
- D412,435 S 8/1999 Cultice, Jr.
- 6,017,243 A 1/2000 Castaldo

(Continued)

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

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(22) Filed: **Sep. 26, 2017**

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

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

(58) **Field of Classification Search**
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CPC H01R 12/716; H01R 2107/00; H01R
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See application file for complete search history.

(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
- RE33,611 E 6/1991 Michaels et al.

OTHER PUBLICATIONS

AEM Performance Electronics; "Installation Instructions for PN: 30-8444 Universal Gauge Boot for 52MM (2 1/16") 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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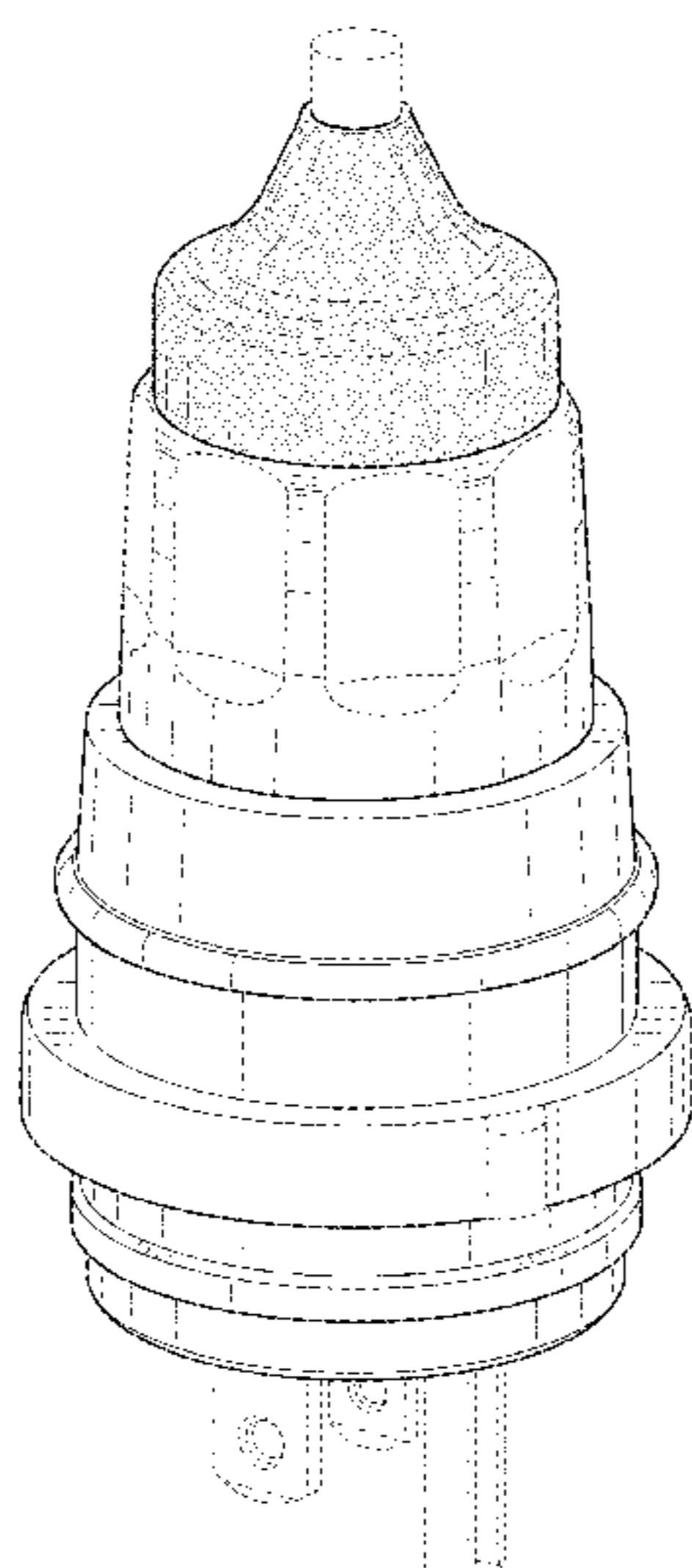
(57) **CLAIM**

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 rear elevation view thereof;
FIG. 4 is a left side elevation view thereof;
FIG. 5 is a right side elevation view thereof;
FIG. 6 is a top plan view thereof; and,
FIG. 7 is a bottom plan view thereof.
The broken lines immediately adjacent to the shaded area define the boundary of the claimed design and form no part thereof. The broken line showing of the remainder of the connector assembly represents unclaimed environmental subject matter and forms no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D457,604 S * 5/2002 Chen D23/262
 D472,306 S 3/2003 Slothower
 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
 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
 D538,727 S 3/2007 Wright et al.
 D555,597 S * 11/2007 Phung D13/133
 D568,969 S * 5/2008 Bucchi D23/262
 D569,955 S * 5/2008 Chen D23/262
 D577,795 S 9/2008 Smith et al.
 D578,482 S 10/2008 Amidon
 D588,991 S * 3/2009 Holliday D13/151
 D590,701 S * 4/2009 Hockman D8/382
 D600,210 S 9/2009 Snyder et al.
 D608,424 S * 1/2010 Katsuta D23/266
 D623,049 S 9/2010 Zeyfang
 D625,170 S 10/2010 McGrath
 7,857,647 B2 12/2010 Bracci et al.
 D637,697 S 5/2011 Steiner
 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
 D669,980 S 10/2012 Lev et al.
 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
 D688,796 S 8/2013 Niunoya et al.
 D688,937 S 9/2013 Brewer
 D691,879 S * 10/2013 Bernard D8/382
 D709,834 S 7/2014 Liu
 D711,328 S 8/2014 Purdy et al.
 D713,705 S 9/2014 Mina et al.
 D719,244 S * 12/2014 Yang D23/262
 D736,357 S 8/2015 Melo et al.
 D736,358 S 8/2015 Melo et al.
 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
 D779,640 S 2/2017 Vaz et al.
 D781,787 S 3/2017 Spiel

D787,054 S * 5/2017 Rini D24/130
 D790,044 S 6/2017 Li
 D799,938 S 10/2017 Lowitz
 D806,241 S 12/2017 Swinney et al.
 D807,794 S 1/2018 Guse et al.
 D810,029 S 2/2018 Robert et al.
 D815,256 S * 4/2018 Norman D23/259
 2002/0133124 A1 9/2002 Leinsing et al.
 2010/0055978 A1 3/2010 Montena
 2011/0226896 A1 * 9/2011 Bessho B64D 45/02
 244/1 A
 2012/0129389 A1 5/2012 Van Swearingen
 2012/0323221 A1 * 12/2012 Gallo A61M 3/0279
 604/514
 2013/0034404 A1 2/2013 Pecho
 2013/0078856 A1 3/2013 Blew
 2013/0143438 A1 6/2013 Wilson et al.
 2014/0012204 A1 1/2014 Bosshardt et al.
 2015/0147919 A1 5/2015 Seelig et al.

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, Wetguard—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

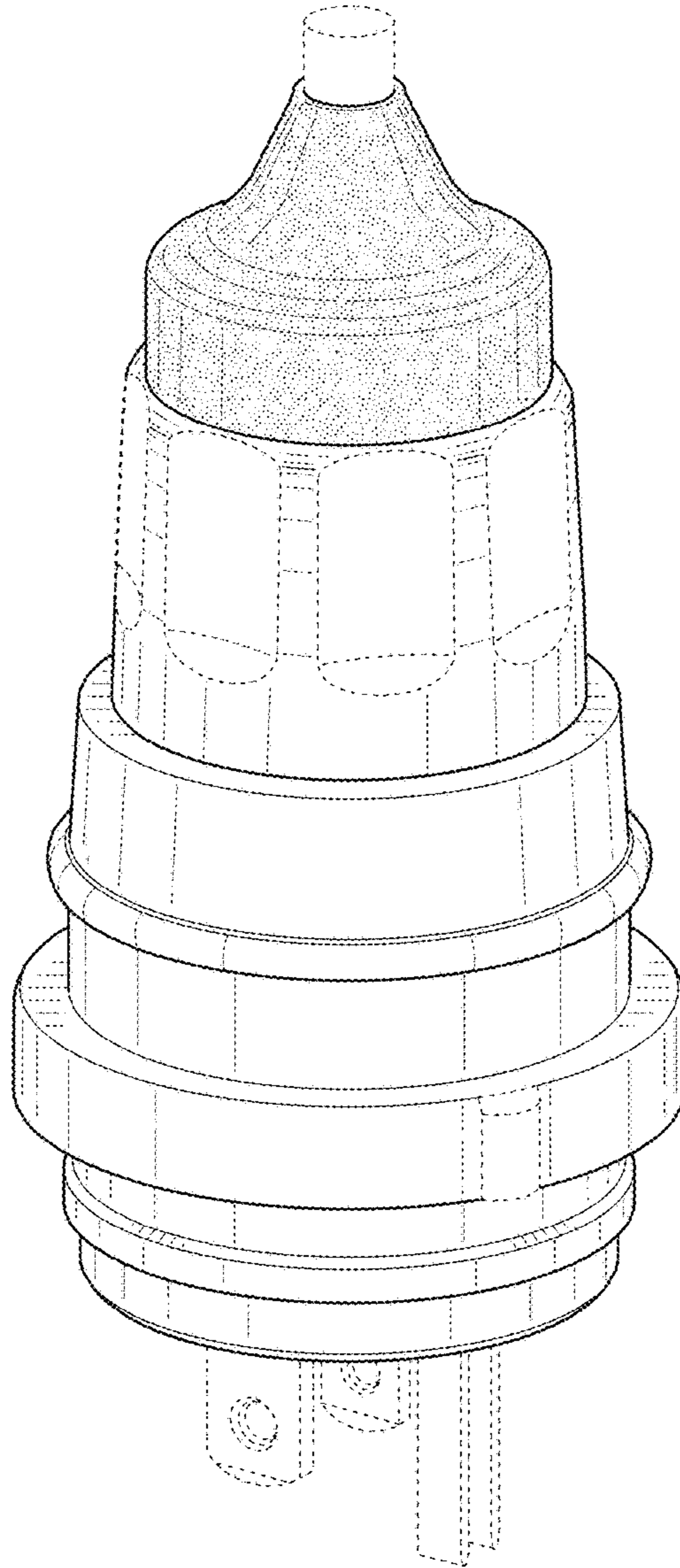


FIG. 1

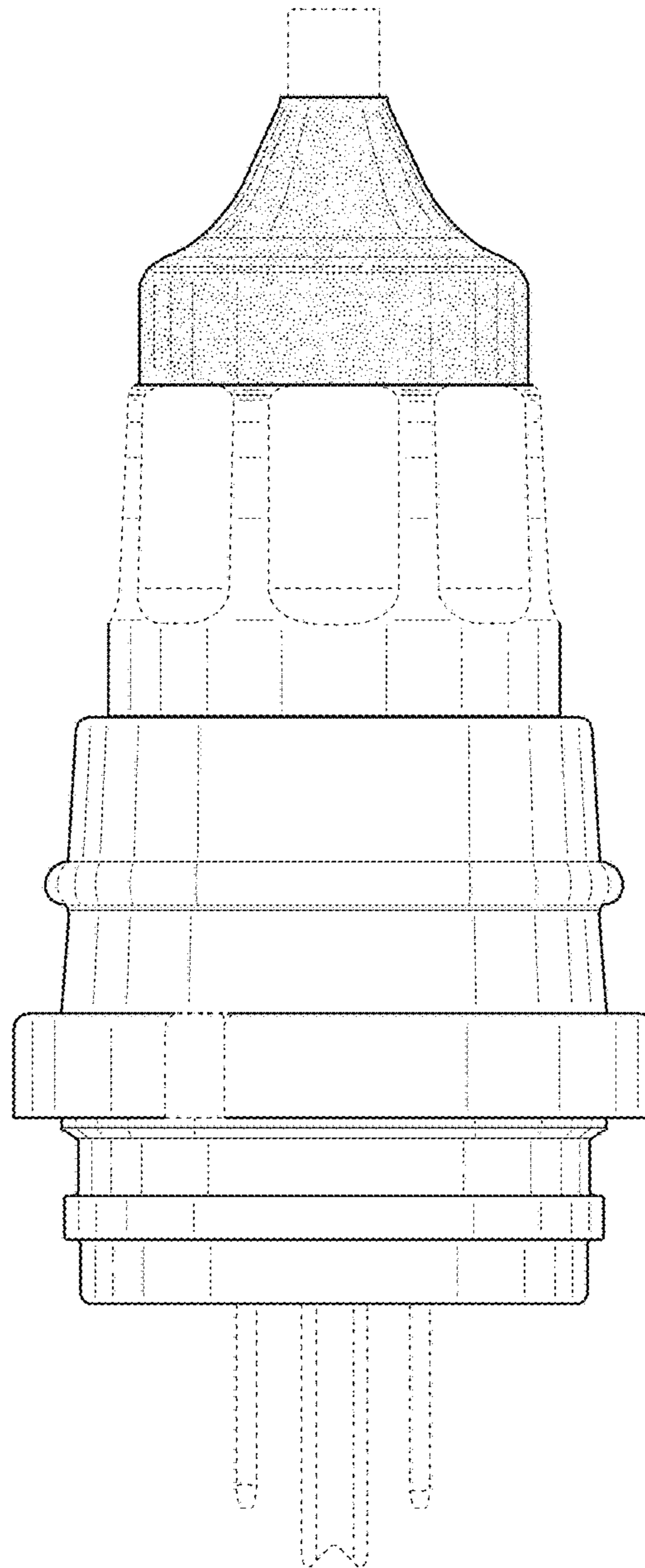


FIG. 2

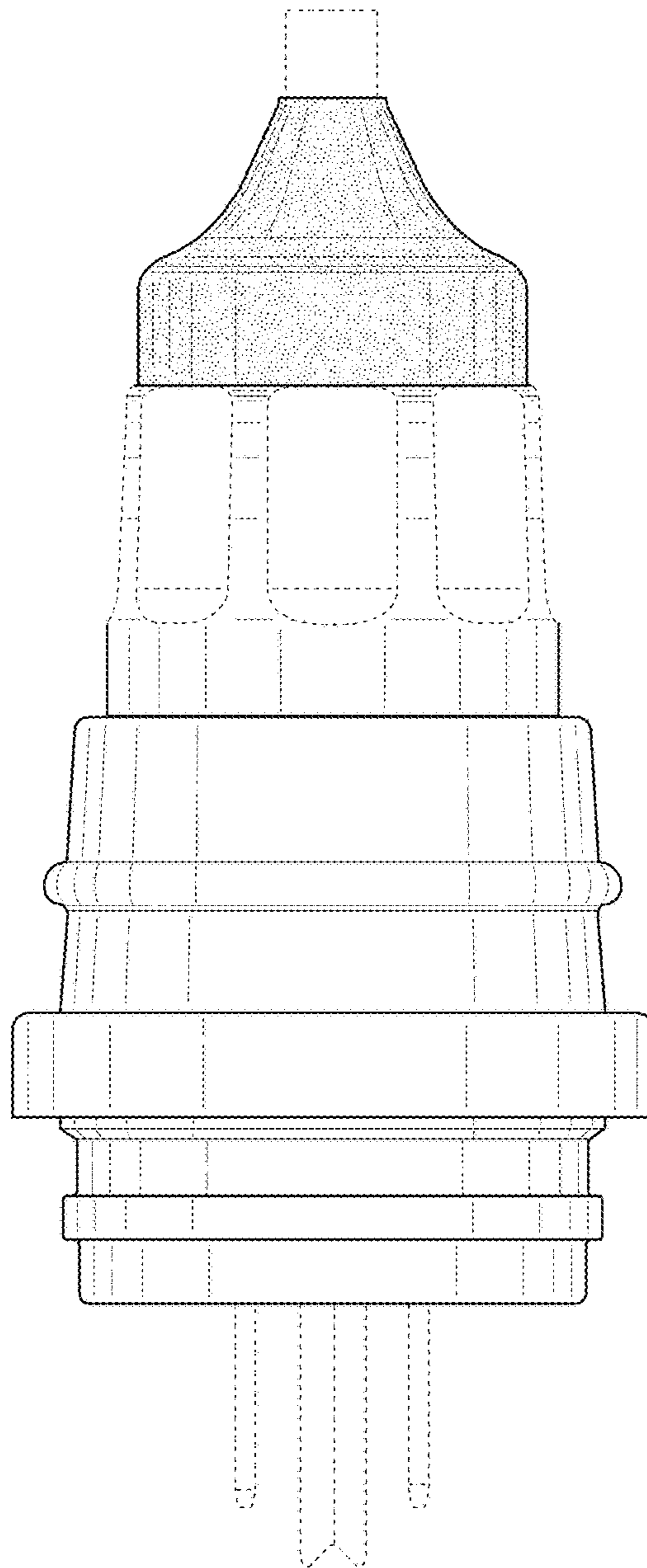


FIG. 3

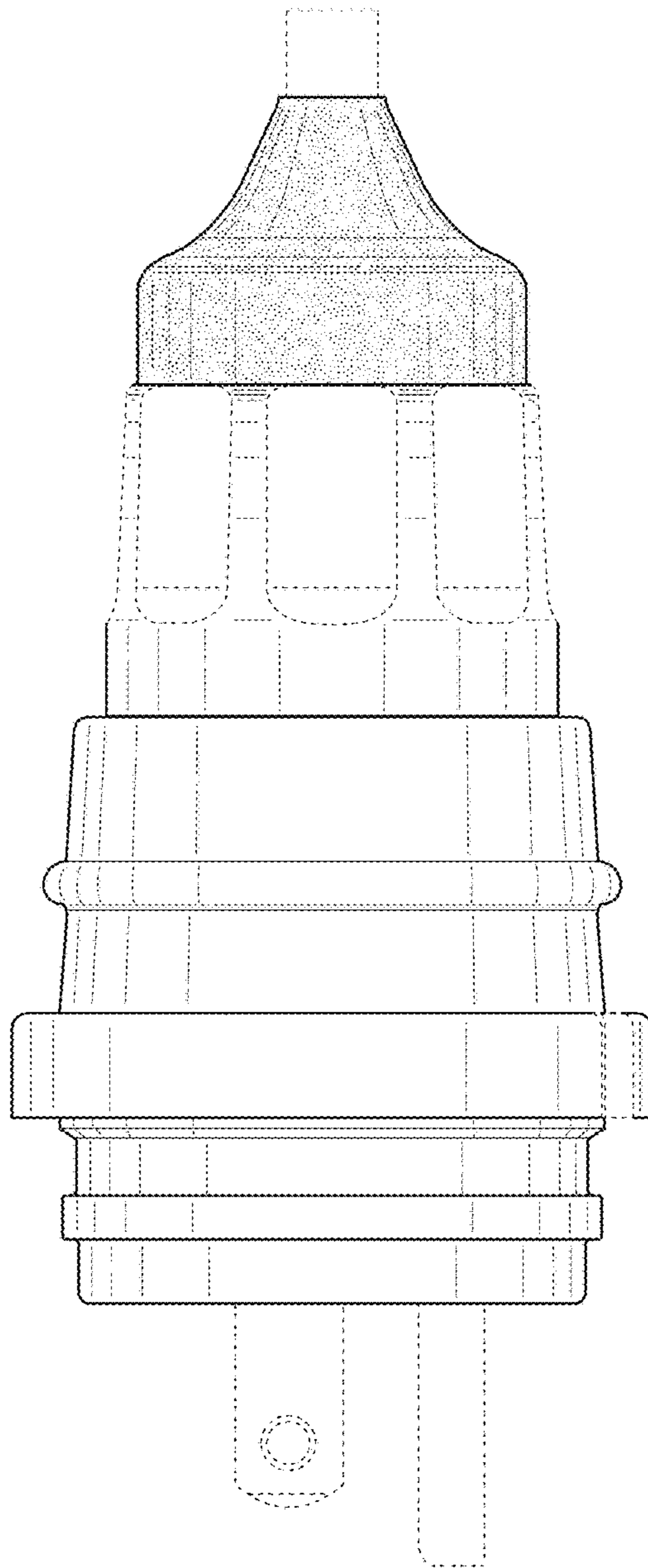


FIG. 4

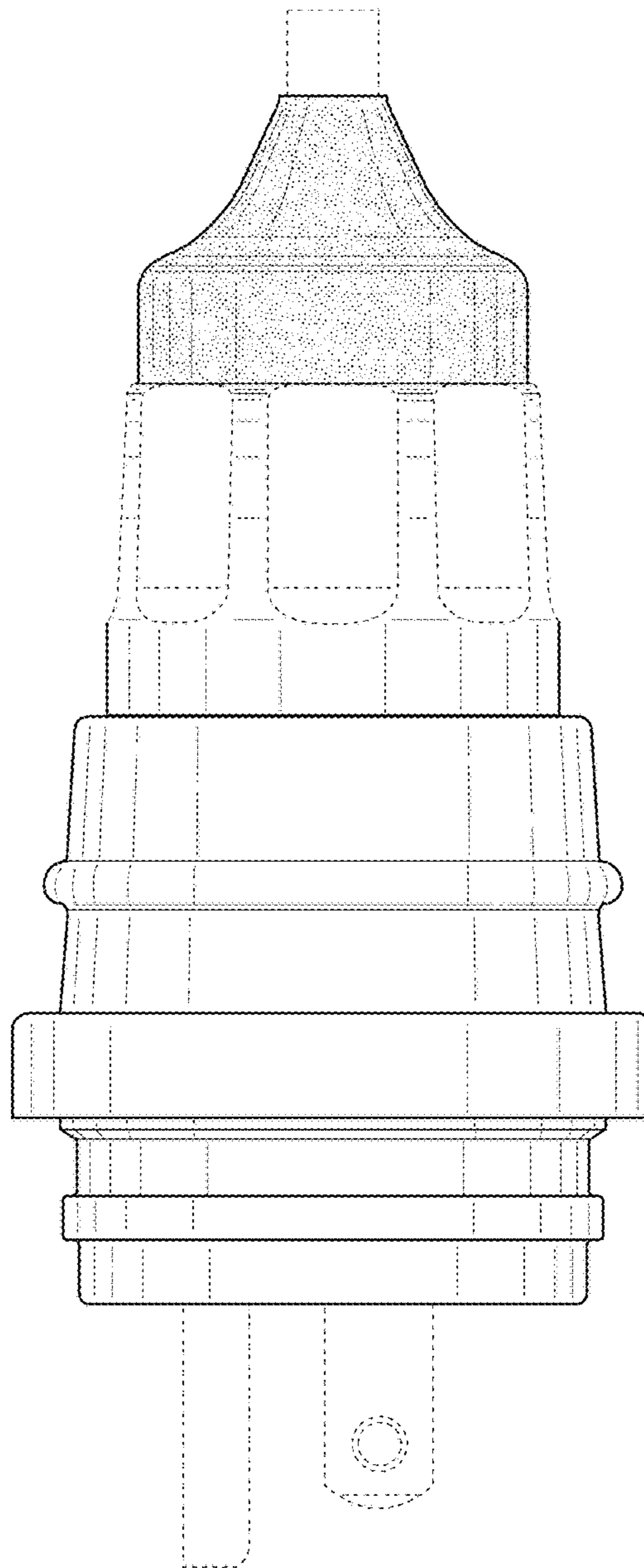


FIG. 5

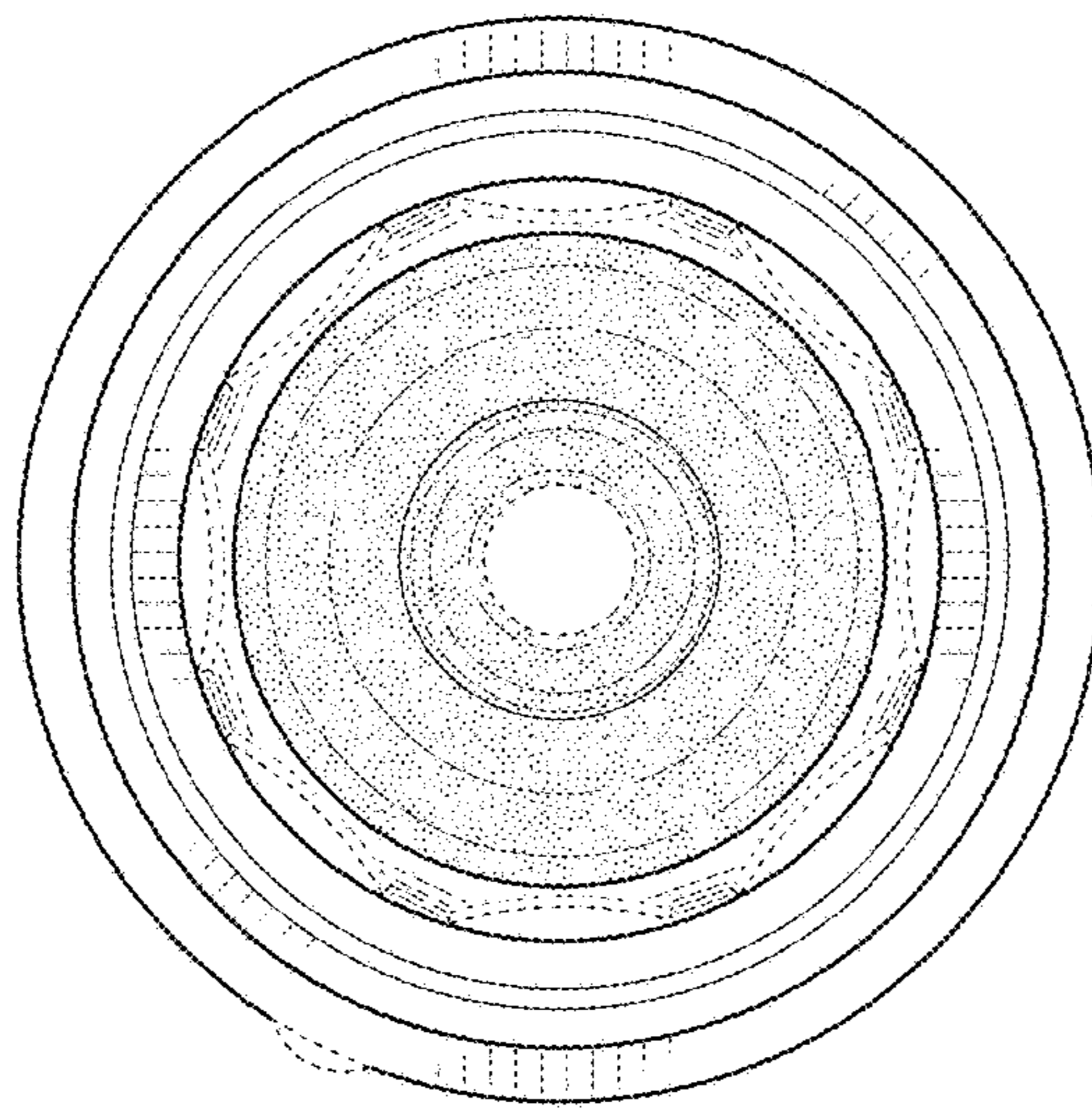


FIG. 6

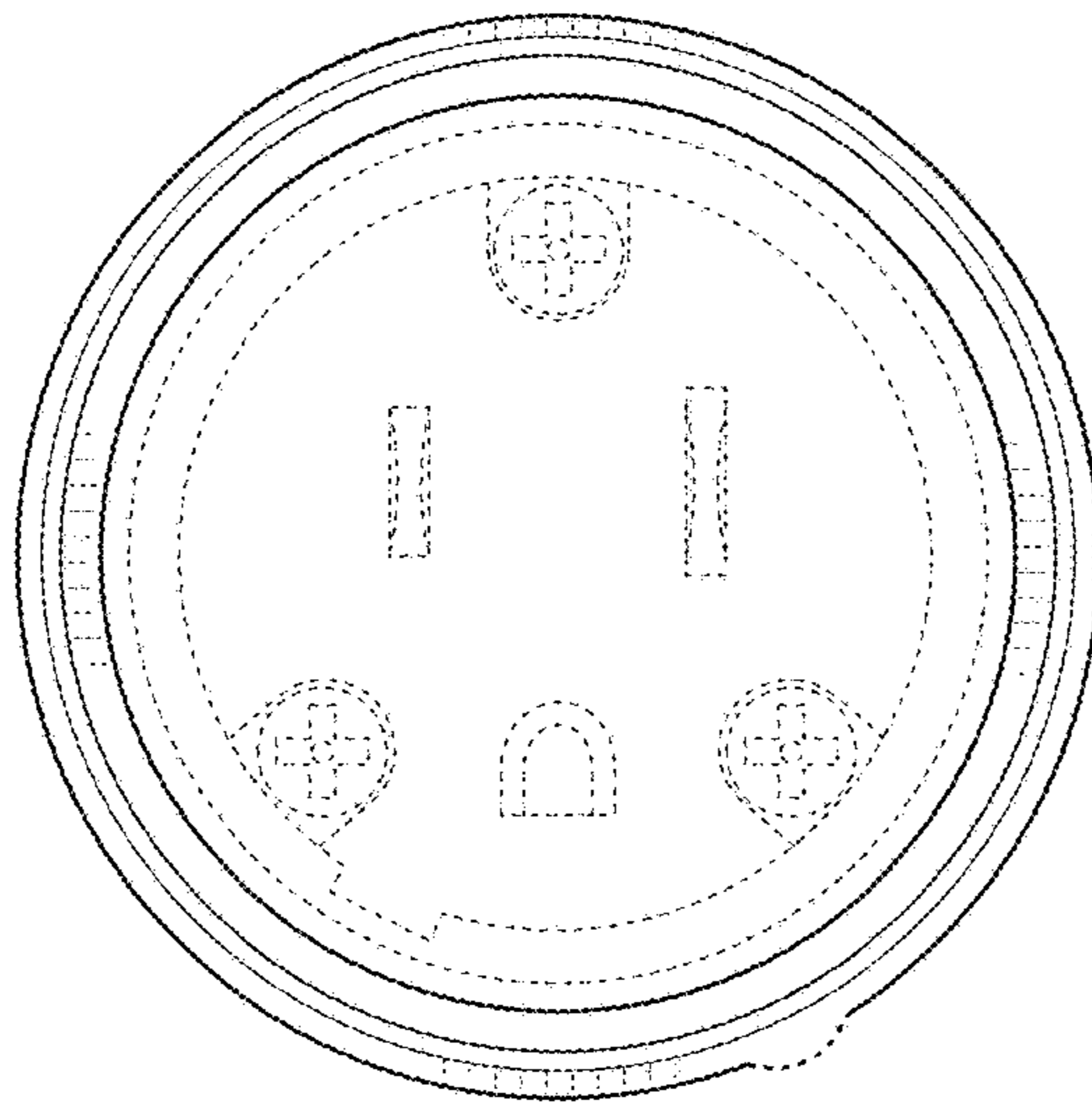


FIG. 7