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Price et al.

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(54) **HANDLE ASSEMBLY FOR SURGICAL INSTRUMENT**

4,445,063 A 4/1984 Smith
4,491,132 A 1/1985 Aikins
4,640,279 A 2/1987 Beard
4,708,127 A 11/1987 Abdelghani
4,832,683 A 5/1989 Idemoto et al.

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(Continued)

FOREIGN PATENT DOCUMENTS

EP 0443256 A1 8/1991

(Continued)

OTHER PUBLICATIONS

Technology Overview, printed from www.harmonicscalpel.com, Internet site, website accessed on Jun. 13, 2007, (3 pages).

(Continued)

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(**) Term: **14 Years**

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(57) **CLAIM**

Related U.S. Application Data

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The ornamental design for a handle assembly for surgical instrument, as shown and described.

(51) **LOC (9) Cl.** **24-02**

(52) **U.S. Cl.** **D24/145; D24/133**

(58) **Field of Classification Search** D24/133,
D24/145; D8/68-70; 606/39, 169-170,
606/174, 205; 227/175.1, 175.2, 180.1

See application file for complete search history.

DESCRIPTION

FIG. 1 is a left perspective view of a handle assembly for a surgical instrument showing our new design.

FIG. 2 is a left side view thereof.

FIG. 3 is a right side view thereof.

FIG. 4 is a bottom side view thereof.

FIG. 5 is a top view thereof.

FIG. 6 is a rear view thereof; and,

FIG. 7 is a front view thereof.

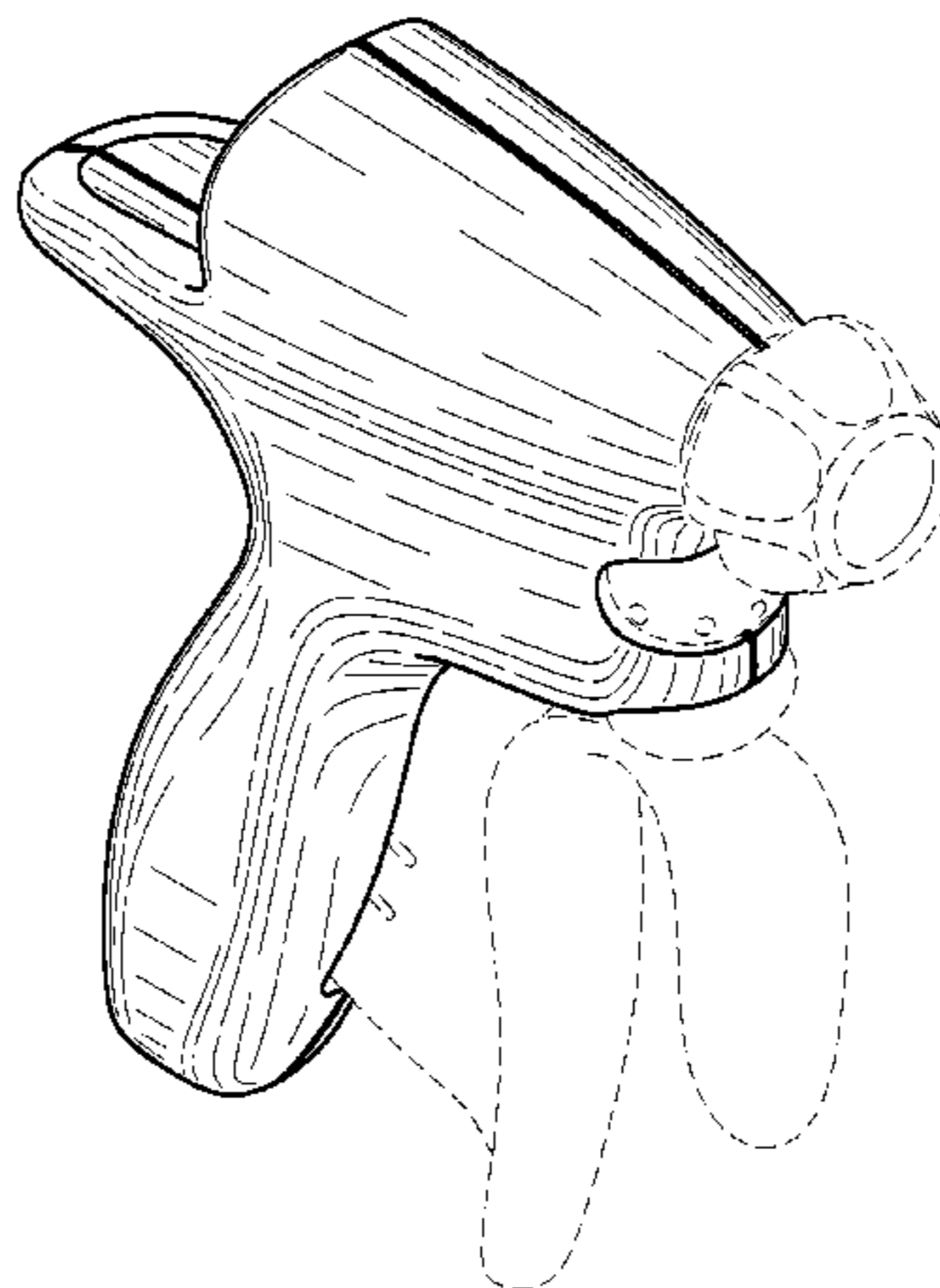
The broken line showing portions of a handle assembly for surgical instrument is included for the purpose of illustrating environmental structure and forms no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,849,788 A 9/1958 Creek
3,015,961 A 1/1962 Roney
3,526,219 A 9/1970 Balamuth
3,636,943 A 1/1972 Balamuth
3,862,630 A 1/1975 Balamuth
3,918,442 A 11/1975 Nikolaev et al.
3,956,826 A 5/1976 Perdreaux, Jr.
4,156,187 A 5/1979 Murry et al.

1 Claim, 5 Drawing Sheets



7,135,030 B2 11/2006 Schwemberger et al.
 7,153,315 B2 12/2006 Miller
 7,156,189 B1 1/2007 Bar-Cohen et al.
 7,156,853 B2 1/2007 Muratsu
 7,157,058 B2 1/2007 Marhasin et al.
 7,159,750 B2 * 1/2007 Racenet et al. 227/180.1
 7,163,548 B2 1/2007 Stulen et al.
 7,179,271 B2 2/2007 Friedman et al.
 7,204,820 B2 4/2007 Akahoshi
 7,223,229 B2 5/2007 Inman et al.
 7,229,455 B2 6/2007 Sakurai et al.
 7,273,483 B2 9/2007 Wiener et al.
 7,331,410 B2 2/2008 Yong et al.
 7,380,695 B2 6/2008 Doll et al.
 7,390,317 B2 6/2008 Taylor et al.
 D576,725 S * 9/2008 Shumer et al. D24/133
 D578,643 S * 10/2008 Shumer et al. D24/133
 D578,644 S * 10/2008 Shumer et al. D24/133
 D578,645 S * 10/2008 Shumer et al. D24/133
 7,431,704 B2 10/2008 Babaev
 7,472,815 B2 1/2009 Shelton, IV et al.
 7,479,148 B2 1/2009 Beaupre
 7,479,160 B2 1/2009 Branch et al.
 7,503,893 B2 3/2009 Kucklick
 D594,983 S * 6/2009 Price et al. D24/145
 2001/0025184 A1 9/2001 Messerly
 2001/0039419 A1 11/2001 Francischelli et al.
 2002/0019649 A1 2/2002 Sikora et al.
 2002/0077550 A1 6/2002 Rabiner et al.
 2002/0156493 A1 10/2002 Houser et al.
 2003/0055443 A1 3/2003 Spotnitz
 2003/0204199 A1 10/2003 Novak et al.
 2004/0030254 A1 2/2004 Babaev
 2004/0047485 A1 3/2004 Sherrit et al.
 2004/0097919 A1 5/2004 Wellman et al.
 2004/0097996 A1 5/2004 Rabiner et al.
 2004/0199193 A1 10/2004 Hayashi et al.
 2004/0204728 A1 10/2004 Haefner
 2004/0260300 A1 12/2004 Gorenssek et al.
 2005/0049546 A1 3/2005 Messerly et al.
 2005/0143769 A1 6/2005 White et al.
 2005/0165345 A1 7/2005 Laufer et al.
 2005/0177184 A1 8/2005 Easley
 2005/0192610 A1 9/2005 Houser et al.
 2005/0209620 A1 9/2005 Du et al.
 2005/0261581 A1 11/2005 Hughes et al.
 2005/0261588 A1 11/2005 Makin et al.
 2006/0030797 A1 2/2006 Zhou et al.
 2006/0079878 A1 4/2006 Houser
 2006/0084963 A1 4/2006 Messerly
 2006/0190034 A1 8/2006 Nishizawa et al.
 2006/0211943 A1 9/2006 Beaupre
 2006/0235306 A1 10/2006 Cotter et al.
 2006/0253050 A1 11/2006 Yoshimine et al.
 2007/0016235 A1 1/2007 Tanaka et al.
 2007/0016236 A1 1/2007 Beaupre
 2007/0055228 A1 3/2007 Berg et al.
 2007/0060915 A1 3/2007 Kucklick
 2007/0131034 A1 6/2007 Ehlert et al.
 2007/0149881 A1 6/2007 Rabin
 2007/0162050 A1 7/2007 Sartor
 2007/0219481 A1 9/2007 Babaev
 2007/0265560 A1 11/2007 Soltani et al.
 2007/0275348 A1 11/2007 Lemon
 2007/0282335 A1 12/2007 Young et al.
 2007/0287933 A1 12/2007 Phan et al.
 2008/0009848 A1 1/2008 Paraschiv et al.
 2008/0058585 A1 3/2008 Novak et al.
 2008/0058775 A1 3/2008 Darian et al.
 2008/0058845 A1 3/2008 Shimizu et al.
 2008/0082039 A1 4/2008 Babaev

2008/0177268 A1 7/2008 Daum et al.
 2008/0188878 A1 8/2008 Young
 2008/0200940 A1 8/2008 Eichmann et al.
 2008/0208231 A1 8/2008 Ota et al.
 2008/0234708 A1 9/2008 Houser et al.
 2008/0234709 A1 9/2008 Houser
 2008/0234710 A1 9/2008 Neurohr et al.
 2008/0234711 A1 9/2008 Houser et al.
 2008/0287948 A1 11/2008 Newton et al.
 2009/0030311 A1 1/2009 Stulen et al.
 2009/0030351 A1 1/2009 Wiener et al.
 2009/0030437 A1 1/2009 Houser et al.
 2009/0030438 A1 1/2009 Stulen
 2009/0030439 A1 1/2009 Stulen
 2009/0036911 A1 2/2009 Stulen
 2009/0036912 A1 2/2009 Wiener et al.
 2009/0036913 A1 2/2009 Wiener et al.
 2009/0036914 A1 2/2009 Houser
 2009/0105750 A1 4/2009 Price et al.
 2009/0143795 A1 6/2009 Robertson
 2009/0143796 A1 6/2009 Stulen et al.
 2009/0143806 A1 6/2009 Witt et al.

FOREIGN PATENT DOCUMENTS

EP 0612570 B1 6/1997
 EP 0908148 B1 1/2002
 EP 1199044 B1 12/2005
 EP 1844720 A1 10/2007
 WO WO 01/54590 A1 8/2001
 WO WO 2005/122917 A1 12/2005
 WO WO 2006/042210 A2 4/2006
 WO WO 2007/047531 A2 4/2007

OTHER PUBLICATIONS

Sherrit et al., "Novel Horn Designs for Ultrasonic/Sonic Cleaning Welding, Soldering, Cutting and Drilling," Proc. SPIE Smart Structures Conference, vol. 4701, Paper No. 34, San Diego, CA, pp. 353-360, Mar. 2002.
 Lim et al., "A Review of Mechanism Used in Laparoscopic Surgical Instruments," Mechanism and Machine Theory, vol. 38, pp. 1133-1147, (2003).
 Gooch et al., "Recommended Infection-Control Practices for Dentistry, 1993," Published: May 28, 1993; [retrieved on Aug. 23, 2008]. Retrieved from the internet: URL: <http://wonder.cdc.gov/wonder/prevguid/p0000191/p0000191.asp> (15 pages).
 U.S. Appl. No. 12/181,816, filed Jul. 29, 2008.
 U.S. Appl. No. 11/881,602, filed Jul. 27, 2007.
 U.S. Appl. No. 11/888,081, filed Jul. 31, 2007.
 U.S. Appl. No. 11/881,636, filed Jul. 27, 2007.
 U.S. Appl. No. 11/881,645, filed Jul. 27, 2007.
 U.S. Appl. No. 11/881,654, filed Jul. 27, 2007.
 U.S. Appl. No. 11/888,171, filed Jul. 31, 2007.
 U.S. Appl. No. 11/998,758, filed Nov. 30, 2007.
 U.S. Appl. No. 11/881,662, filed Jul. 27, 2007.
 U.S. Appl. No. 11/888,222, filed Jul. 31, 2007.
 U.S. Appl. No. 12/245,158, filed Oct. 3, 2008.
 U.S. Appl. No. 11/998,543, filed Nov. 30, 2007.
 AST Products, Inc., "Principles of Video Contact Angle Analysis," 20 pages, (2006).
 U.S. Appl. No. 12/469,293, filed May 20, 2009.
 U.S. Appl. No. 12/469,308, filed May 20, 2009.
 U.S. Appl. No. 12/503,775, filed Jul. 15, 2009.
 U.S. Appl. No. 12/503,769, filed Jul. 15, 2009.
 U.S. Appl. No. 12/503,770, filed Jul. 15, 2009.
 U.S. Appl. No. 12/503,766, filed Jul. 15, 2009.
 U.S. Appl. No. 12/490,906, filed Jun. 24, 2009.
 U.S. Appl. No. 12/490,922, filed Jun. 24, 2009.
 U.S. Appl. No. 12/490,933, filed Jun. 24, 2009.
 U.S. Appl. No. 12/490,948, filed Jun. 24, 2009.

* cited by examiner

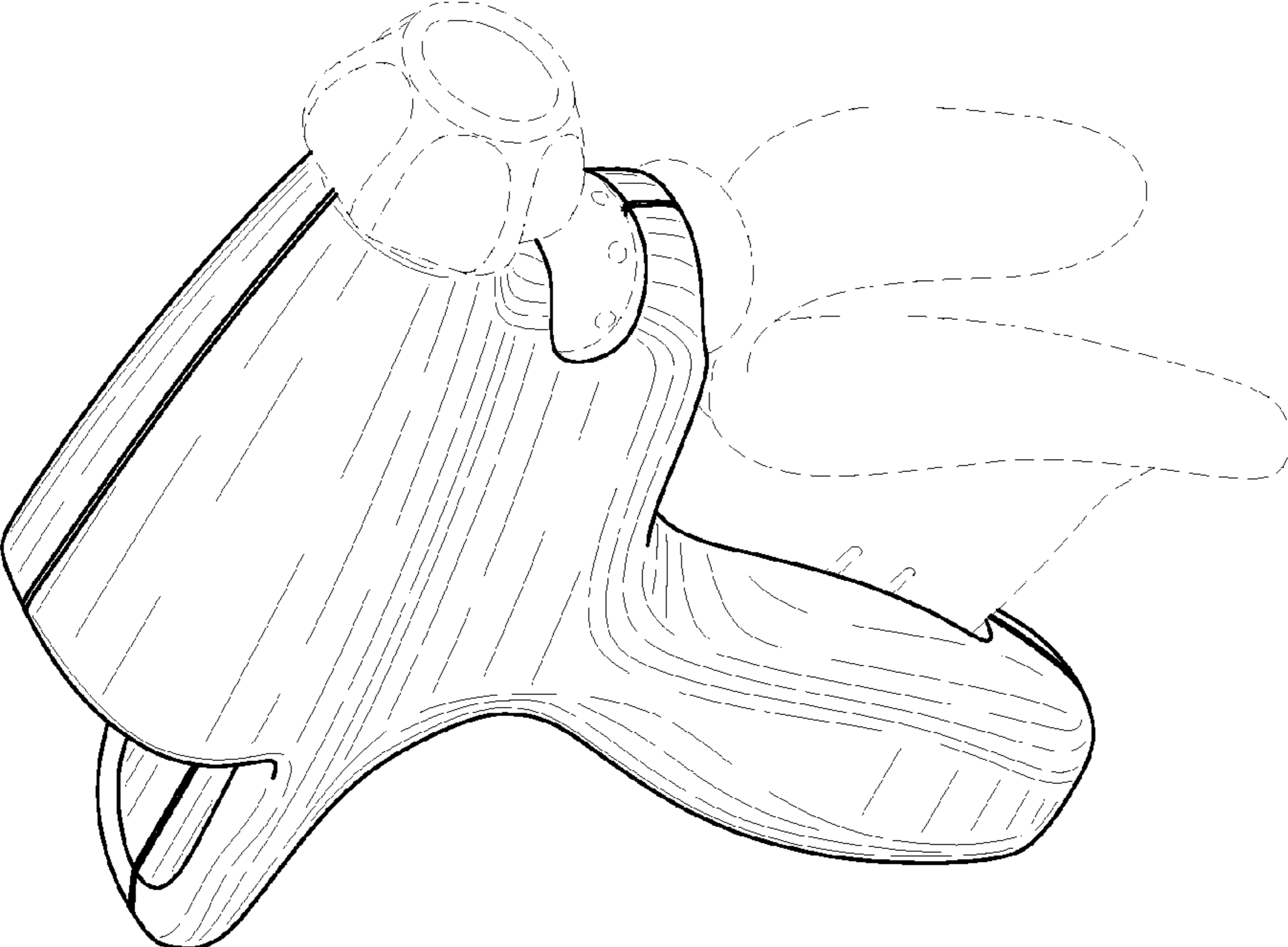


FIG. 1

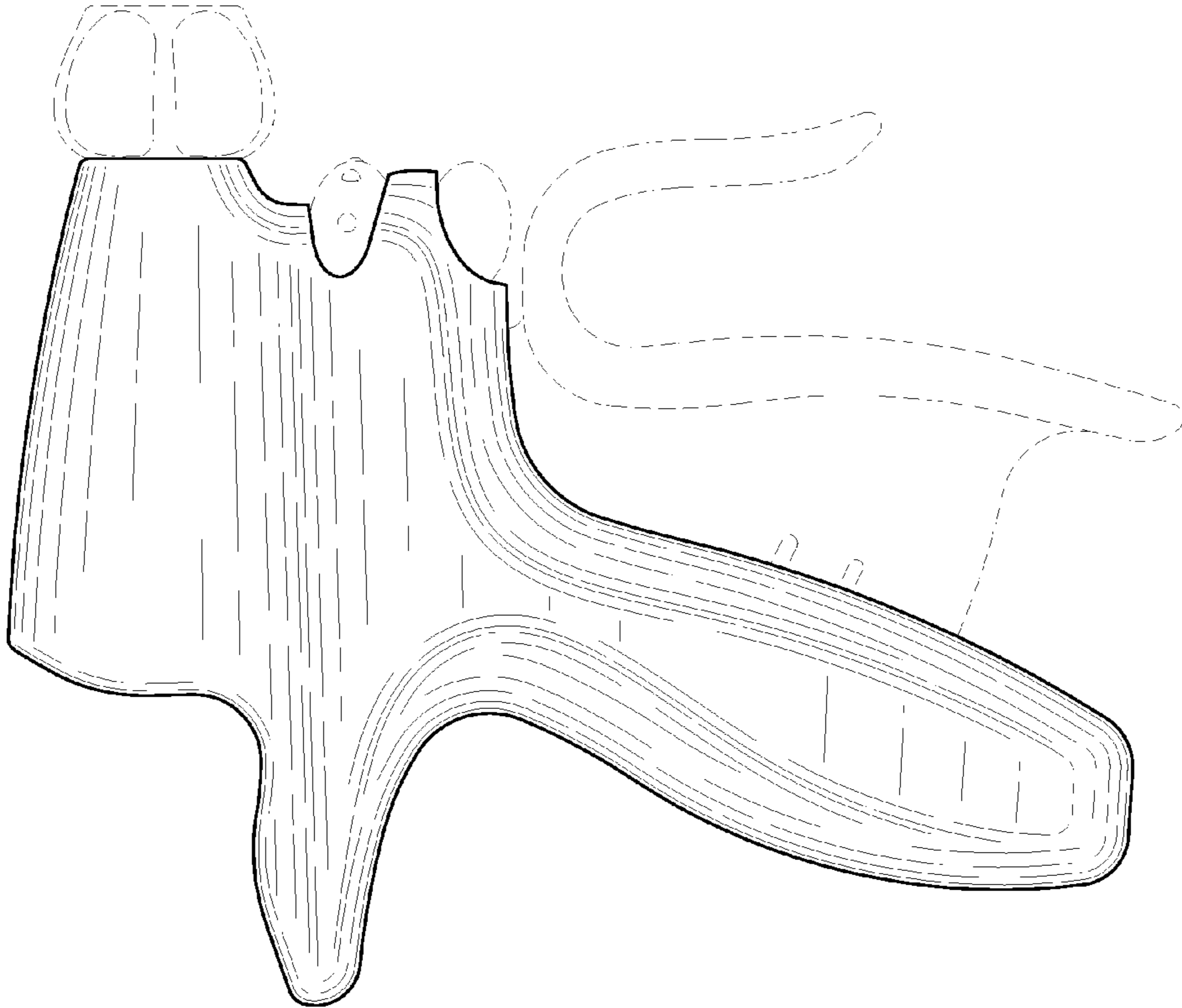


FIG. 2

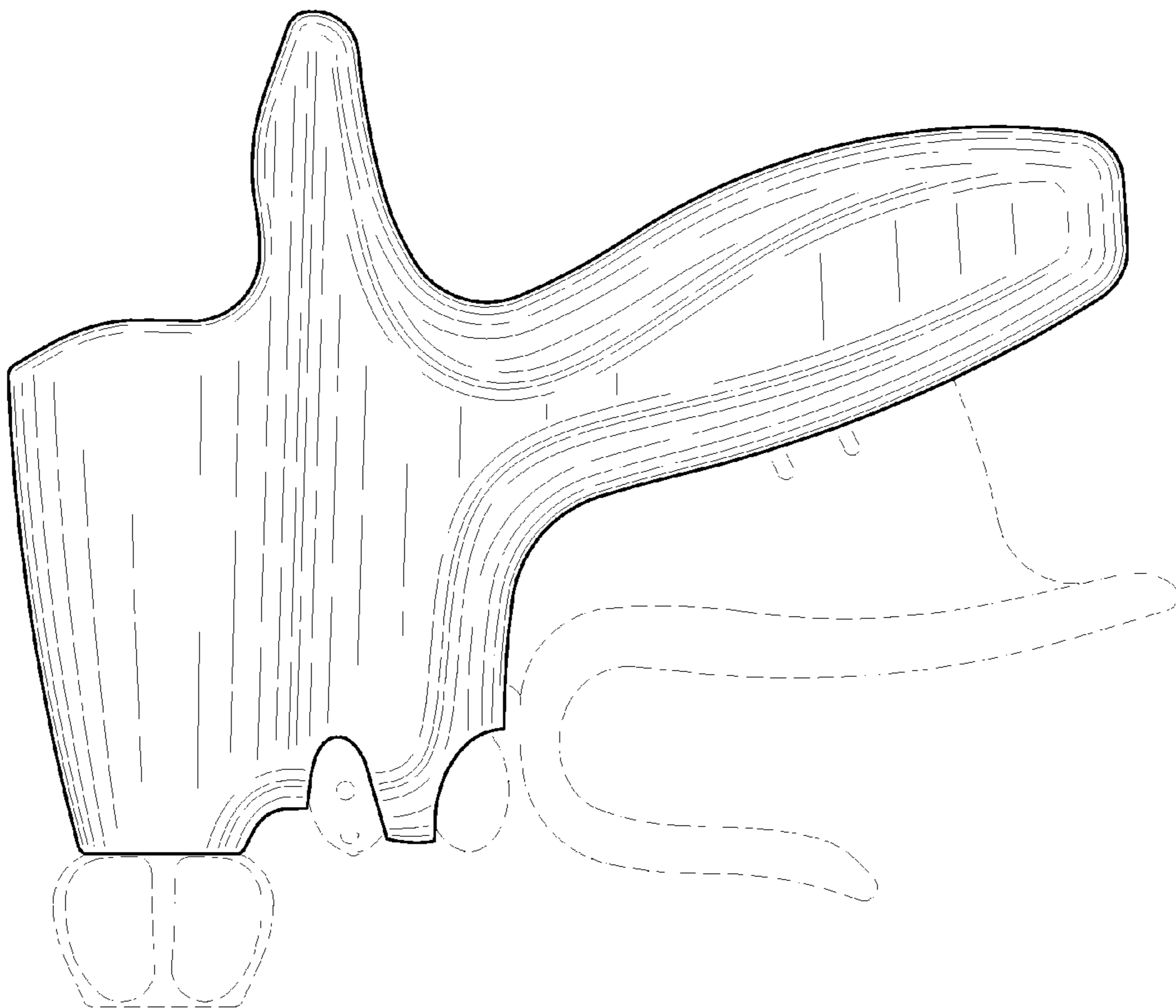


FIG. 3

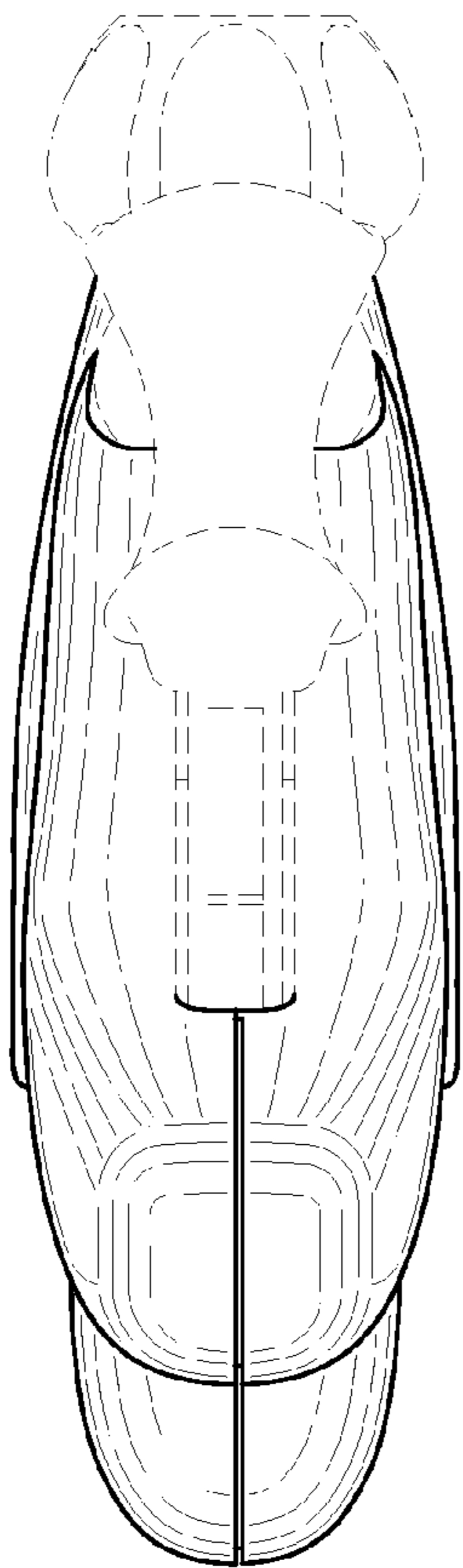


FIG. 4

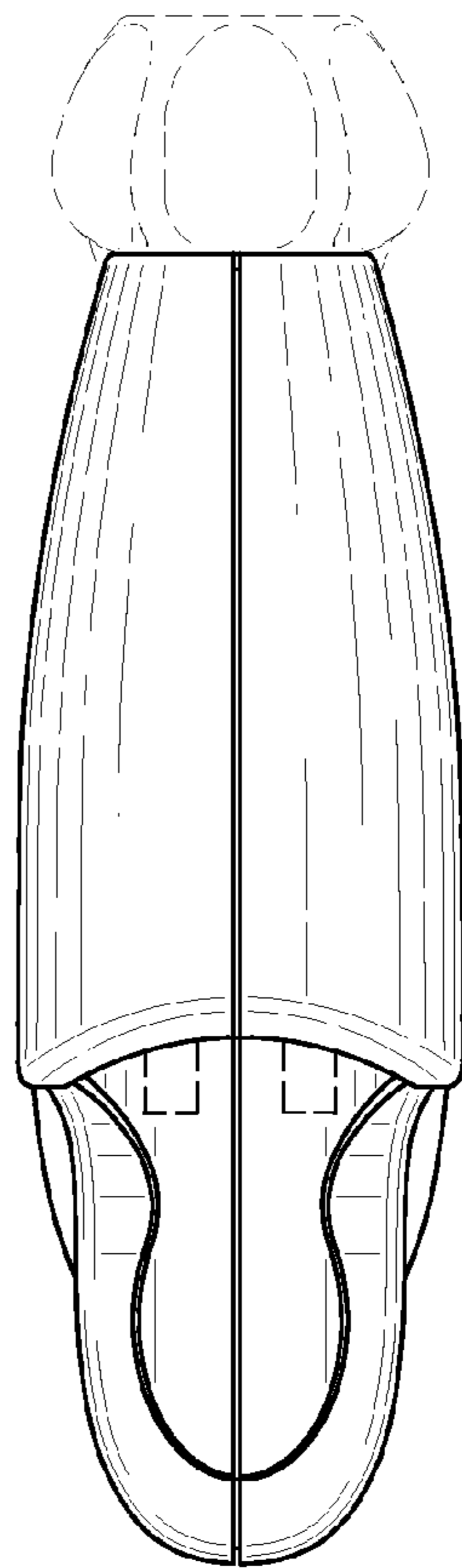


FIG. 5

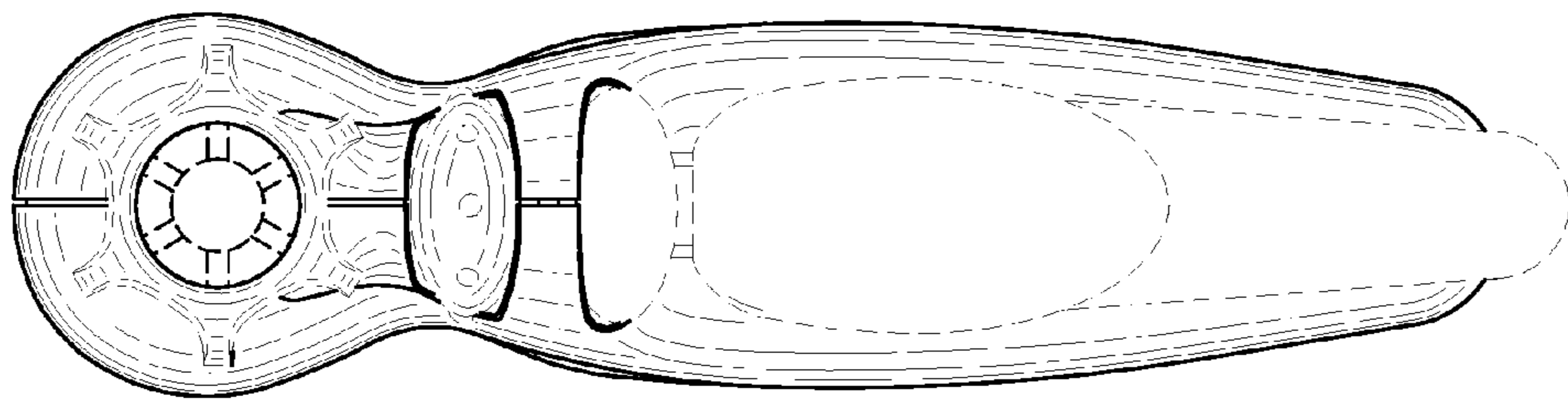


FIG. 7

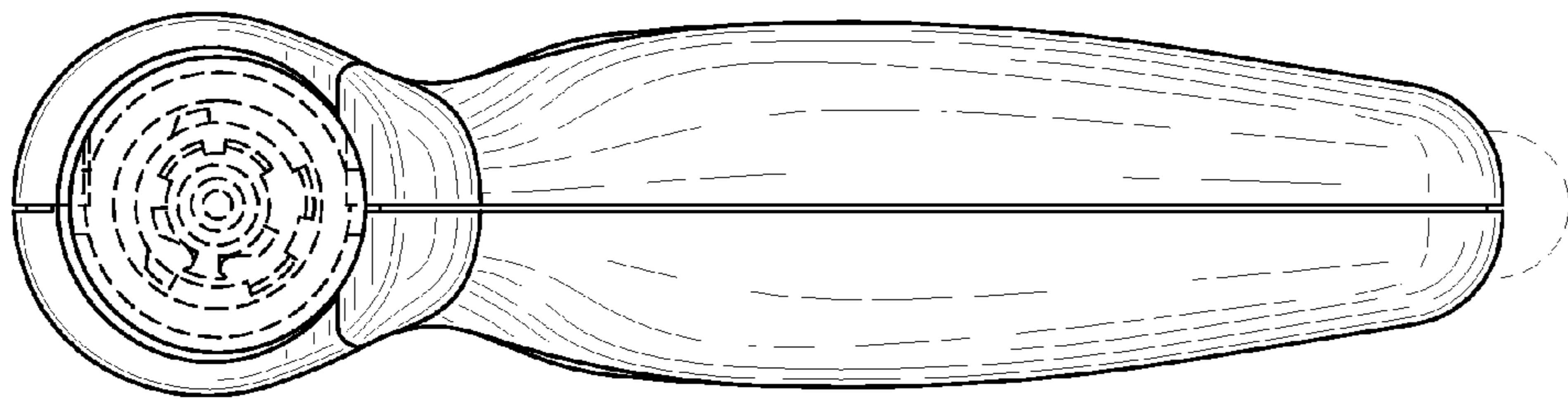


FIG. 6