



US00D618797S

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

(10) **Patent No.:** **US D618,797 S**  
(45) **Date of Patent:** **\*\* Jun. 29, 2010**

(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.

(75) Inventors: **Daniel W. Price**, Loveland, OH (US);  
**Galen C. Robertson**, Cincinnati, OH (US);  
**Cory G. Kimball**, Cincinnati, OH (US);  
**Scott A. Woodruff**, Loveland, OH (US);  
**Matthew C. Miller**, Cincinnati, OH (US);  
**Kip M. Rupp**, New Richmond, OH (US);  
**Carrie I. Fihe**, Cincinnati, OH (US);  
**Jane A. Sheetz**, Cincinnati, OH (US);  
**Carl J. Draginoff, Jr.**, Mason, OH (US)

(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)

(73) Assignee: **Ethicon Endo-Surgery, Inc.**, Cincinnati, OH (US)

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

(21) Appl. No.: **29/327,737**

(22) Filed: **Nov. 12, 2008**

*Primary Examiner*—Ian Simmons  
*Assistant Examiner*—Wan Laymon

(57) **CLAIM**

**Related U.S. Application Data**

(62) Division of application No. 29/292,295, filed on Oct. 5, 2007, now Pat. No. Des. 594,983.

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.

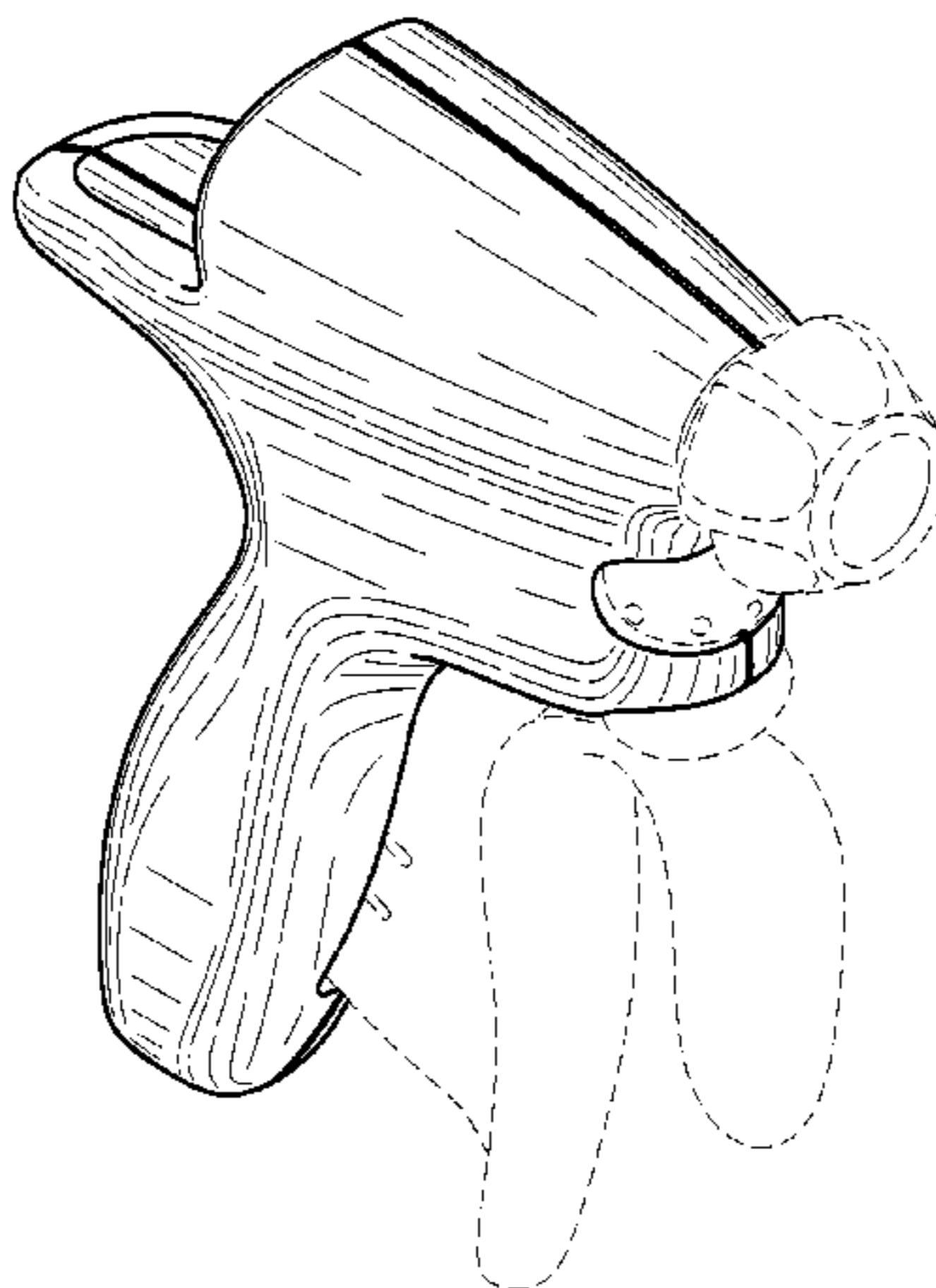
(56) **References Cited**

**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.

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.

**1 Claim, 5 Drawing Sheets**



# US D618,797 S

U.S. PATENT DOCUMENTS				
		6,206,844	B1	3/2001 Reichel et al.
		6,210,403	B1	4/2001 Klicek
		6,214,023	B1	4/2001 Whipple et al.
		6,238,366	B1	5/2001 Savage et al.
		D444,365	S	7/2001 Bass et al.
		6,254,623	B1	7/2001 Haibel, Jr. et al.
		6,258,034	B1	7/2001 Hanafy
		6,267,761	B1	7/2001 Ryan
		6,273,852	B1	8/2001 Lehe et al.
		6,274,963	B1	8/2001 Estabrook et al.
		6,277,115	B1	8/2001 Saadat
		6,278,218	B1	8/2001 Madan et al.
		6,283,981	B1	9/2001 Beaupre
		6,309,400	B2	10/2001 Beaupre
		6,319,221	B1	11/2001 Savage et al.
		6,325,811	B1	12/2001 Messerly
		6,328,751	B1	12/2001 Beaupre
		6,352,532	B1	3/2002 Kramer et al.
		6,383,194	B1	5/2002 Pothula
		6,387,109	B1	5/2002 Davison et al.
		6,391,042	B1	5/2002 Cimino
		6,416,486	B1	7/2002 Wampler
		6,423,073	B2	7/2002 Bowman
		6,423,082	B1	7/2002 Houser et al.
		6,432,118	B1	8/2002 Messerly
		6,436,114	B1	8/2002 Novak et al.
		6,436,115	B1	8/2002 Beaupre
		6,443,969	B1	9/2002 Novak et al.
		6,454,781	B1	9/2002 Witt et al.
		6,454,782	B1	9/2002 Schwemberger
		6,458,142	B1	10/2002 Faller et al.
		6,480,796	B2	11/2002 Wiener
		6,485,490	B2	11/2002 Wampler et al.
		6,491,708	B2	12/2002 Madan et al.
		6,497,715	B2	12/2002 Satou
		6,500,188	B2	12/2002 Harper et al.
		6,524,316	B1	2/2003 Nicholson et al.
		6,537,291	B2	3/2003 Friedman et al.
		6,543,456	B1	4/2003 Freeman
		6,544,260	B1	4/2003 Markel et al.
		6,561,983	B2	5/2003 Cronin et al.
		6,589,200	B1	7/2003 Schwemberger et al.
		6,589,239	B2	7/2003 Khandkar et al.
		6,623,501	B2	9/2003 Heller et al.
		6,626,926	B2	9/2003 Friedman et al.
		6,633,234	B2	10/2003 Wiener et al.
		6,662,127	B2	12/2003 Wiener et al.
		6,663,941	B2	12/2003 Brown et al.
		6,676,660	B2	1/2004 Wampler et al.
		6,678,621	B2	1/2004 Wiener et al.
		6,679,899	B2	1/2004 Wiener et al.
		6,682,544	B2	1/2004 Matri et al.
		6,716,215	B1	4/2004 David et al.
		6,733,506	B1	5/2004 McDevitt et al.
		6,773,444	B2	8/2004 Messerly
		6,786,383	B2	9/2004 Stegelmann
		6,790,216	B1	9/2004 Ishikawa
		6,869,439	B2	3/2005 White et al.
		6,875,220	B2	4/2005 Du et al.
		6,908,472	B2	6/2005 Wiener et al.
		6,929,632	B2	8/2005 Nita et al.
		D509,589	S	9/2005 Wells
		6,945,981	B2	9/2005 Donofrio et al.
		D511,145	S	11/2005 Donofrio et al.
		6,976,969	B2	12/2005 Messerly
		6,977,495	B2	12/2005 Donofrio
		7,041,088	B2	5/2006 Nawrocki et al.
		7,074,219	B2	7/2006 Levine et al.
		7,077,039	B2	7/2006 Gass et al.
		7,077,853	B2	7/2006 Kramer et al.
		7,108,695	B2	9/2006 Witt et al.
		7,118,564	B2	10/2006 Ritchie et al.
		7,135,018	B2	11/2006 Ryan et al.
4,838,853	A	6/1989	Parisi	
4,865,159	A	9/1989	Jamison	
4,896,009	A	1/1990	Pawlowski	
4,981,756	A	1/1991	Rhandhawa	
5,026,387	A	6/1991	Thomas	
5,167,725	A	12/1992	Clark et al.	
D332,660	S	1/1993	Rawson et al.	
5,176,695	A	1/1993	Dulebohn	
5,241,236	A	8/1993	Sasaki et al.	
5,261,922	A	11/1993	Hood	
5,263,957	A	11/1993	Davison	
5,282,800	A	2/1994	Foshee et al.	
D347,474	S	5/1994	Olson	
5,322,055	A	6/1994	Davison et al.	
5,324,299	A	6/1994	Davison et al.	
5,346,502	A	9/1994	Estabrook et al.	
5,366,466	A	11/1994	Christian et al.	
D354,564	S	1/1995	Medema	
5,411,481	A	5/1995	Allen et al.	
5,419,761	A	5/1995	Narayanan et al.	
5,449,370	A	9/1995	Vaitekunas	
5,486,162	A	1/1996	Brumbach	
5,500,216	A	3/1996	Julian et al.	
5,501,654	A	3/1996	Failla et al.	
5,505,693	A	4/1996	Mackool	
5,562,609	A	10/1996	Brumbach	
5,562,610	A	10/1996	Brumbach	
5,601,601	A	2/1997	Tal et al.	
5,607,436	A	3/1997	Pratt et al.	
5,618,492	A	4/1997	Auten et al.	
5,628,760	A	5/1997	Knoepfler	
5,630,420	A	5/1997	Vaitekunas	
D381,077	S	7/1997	Hunt	
5,669,922	A	9/1997	Hood	
5,674,235	A	10/1997	Parisi	
5,690,269	A	11/1997	Bolanos et al.	
5,694,936	A	12/1997	Fujimoto et al.	
5,713,896	A	2/1998	Nardella	
5,810,859	A	9/1998	DiMatteo et al.	
5,827,323	A	10/1998	Klieman et al.	
5,828,160	A	10/1998	Sugishita	
5,843,109	A	12/1998	Mehta et al.	
5,879,364	A	3/1999	Bromfield et al.	
5,893,835	A	4/1999	Witt et al.	
5,897,569	A	4/1999	Kellogg et al.	
5,935,143	A	8/1999	Hood	
5,935,144	A	8/1999	Estabrook	
5,938,633	A	8/1999	Beaupre	
5,944,718	A	8/1999	Austin et al.	
5,944,737	A	8/1999	Tsonton et al.	
5,954,736	A	9/1999	Bishop et al.	
5,954,746	A	9/1999	Holthaus et al.	
5,957,943	A	9/1999	Vaitekunas	
5,968,007	A	10/1999	Simon et al.	
5,968,060	A	10/1999	Kellogg	
D416,089	S	11/1999	Barton et al.	
5,989,274	A	11/1999	Davison et al.	
5,989,275	A	11/1999	Estabrook et al.	
6,033,375	A	3/2000	Brumbach	
6,063,098	A	5/2000	Houser et al.	
6,066,132	A	5/2000	Chen et al.	
6,068,647	A	5/2000	Witt et al.	
6,083,191	A	7/2000	Rose	
6,086,584	A	7/2000	Miller	
6,090,120	A	7/2000	Wright et al.	
6,109,500	A *	8/2000	Alli et al. .... 227/175.2	
6,113,594	A	9/2000	Savage	
6,139,320	A	10/2000	Hahn	
6,152,902	A	11/2000	Christian et al.	
6,159,160	A	12/2000	Hsei et al.	
6,159,175	A	12/2000	Strukel et al.	



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

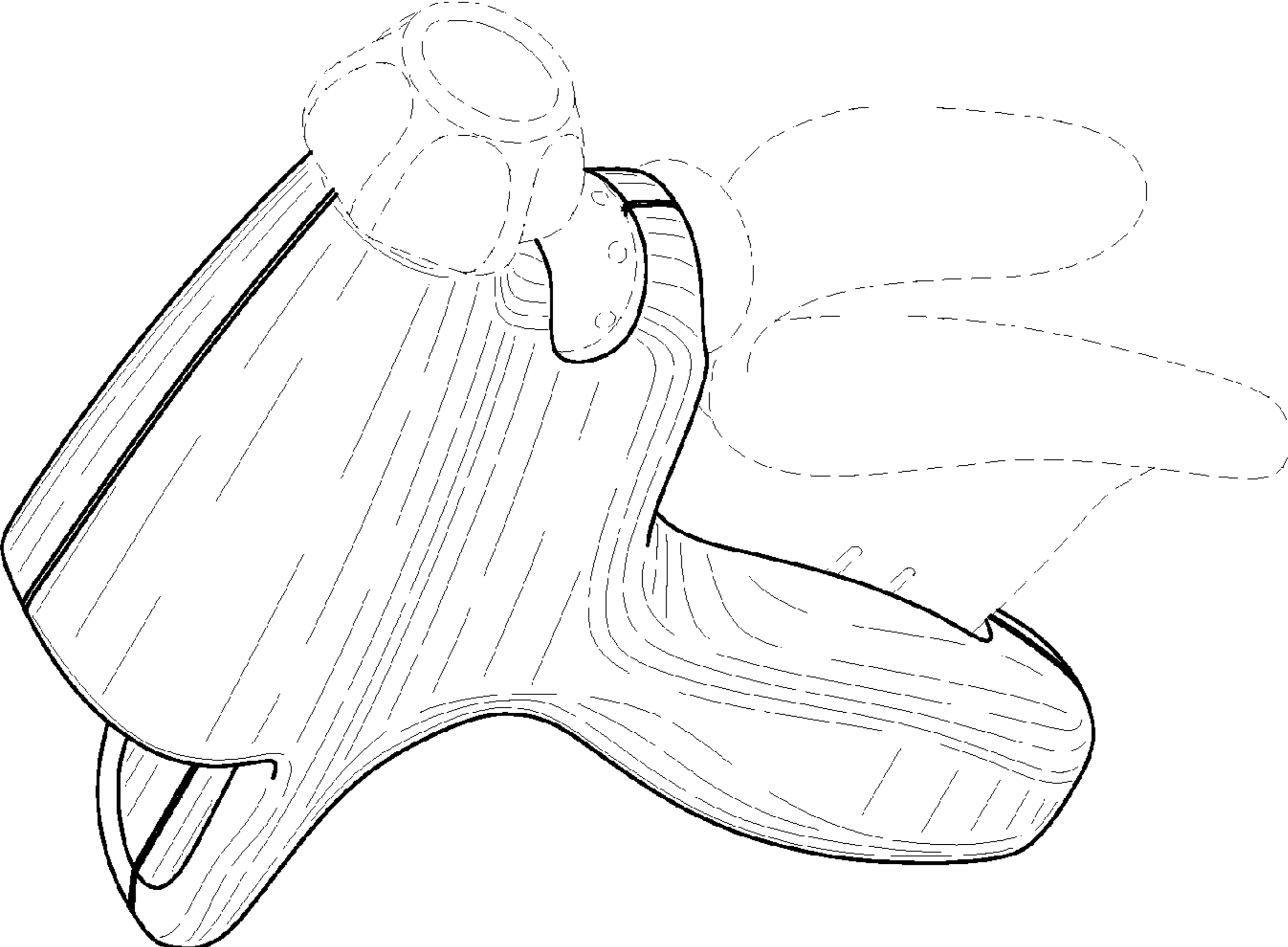


FIG. 1

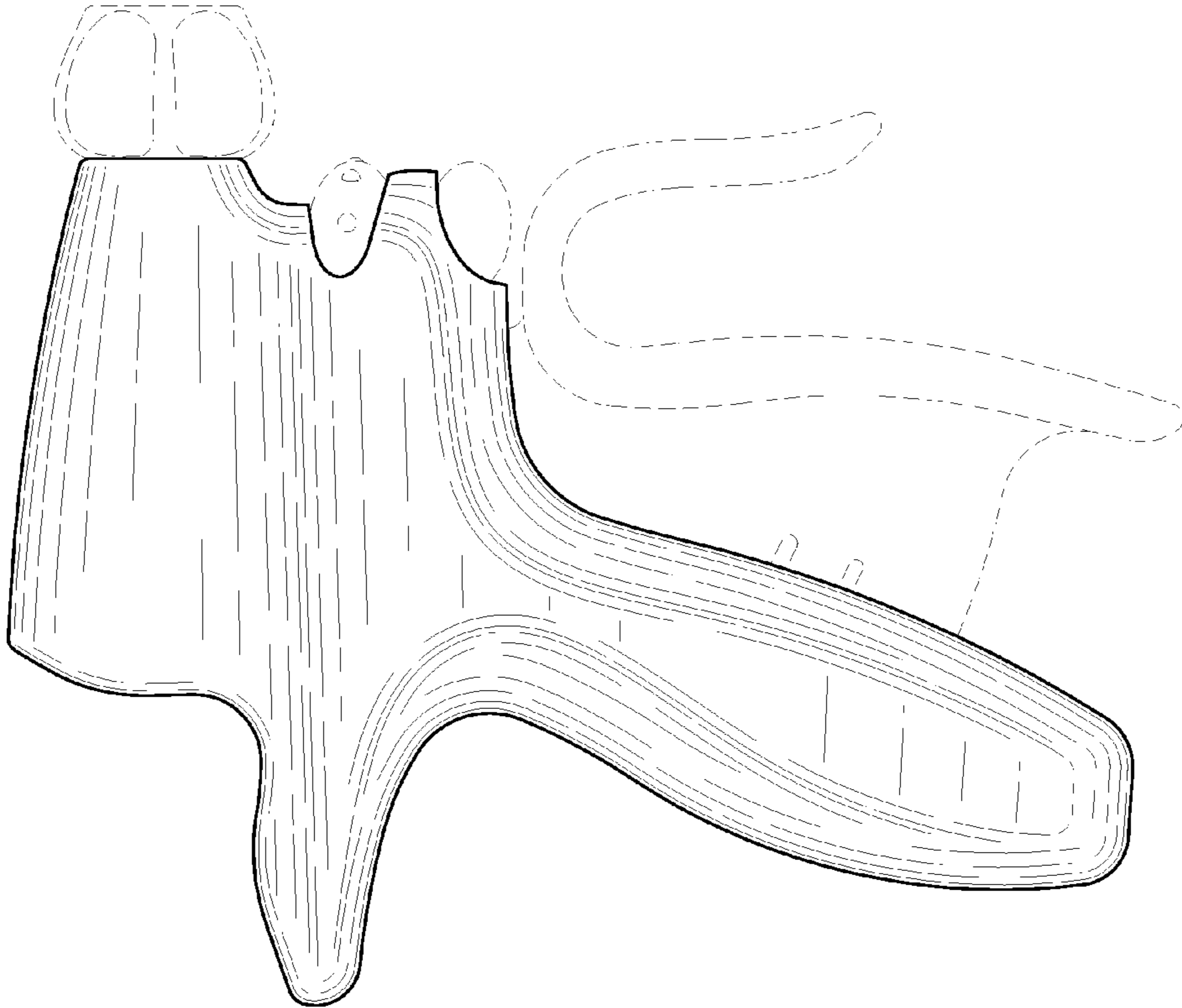


FIG. 2

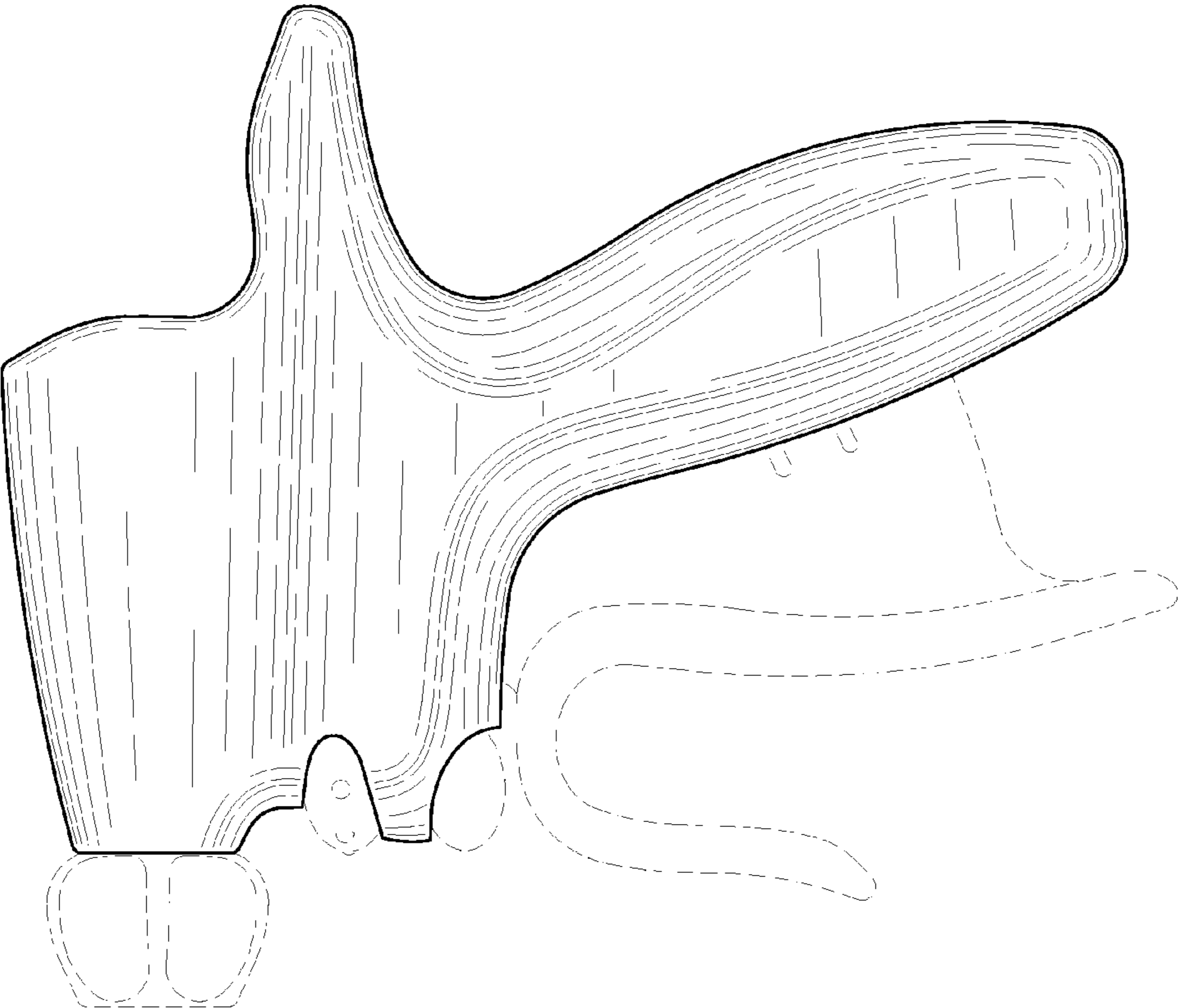


FIG. 3



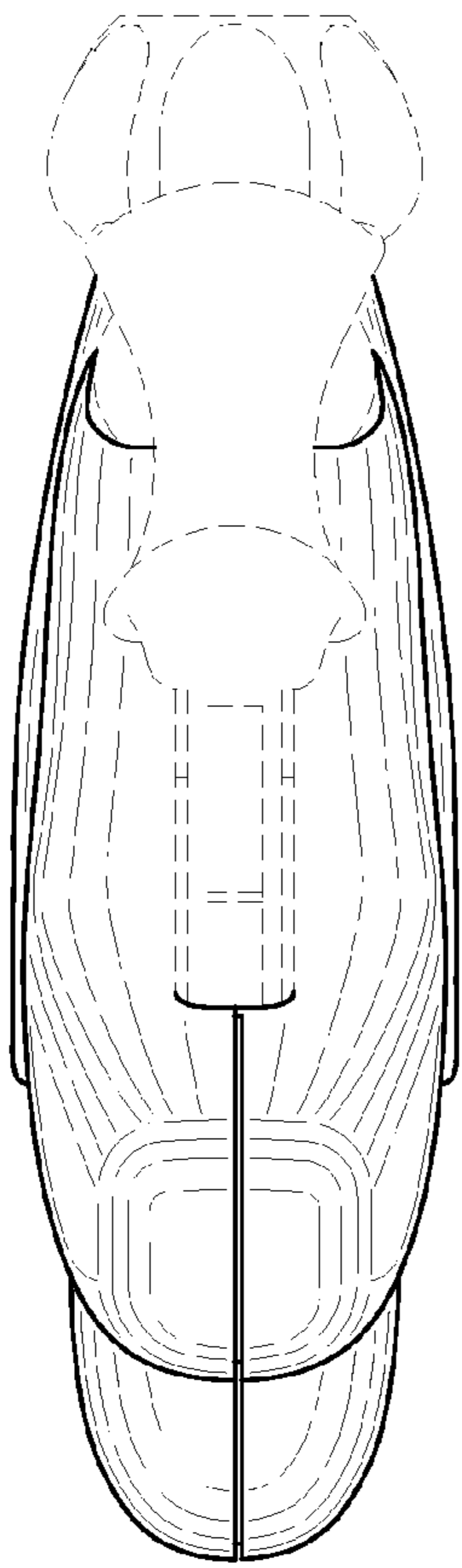


FIG. 4

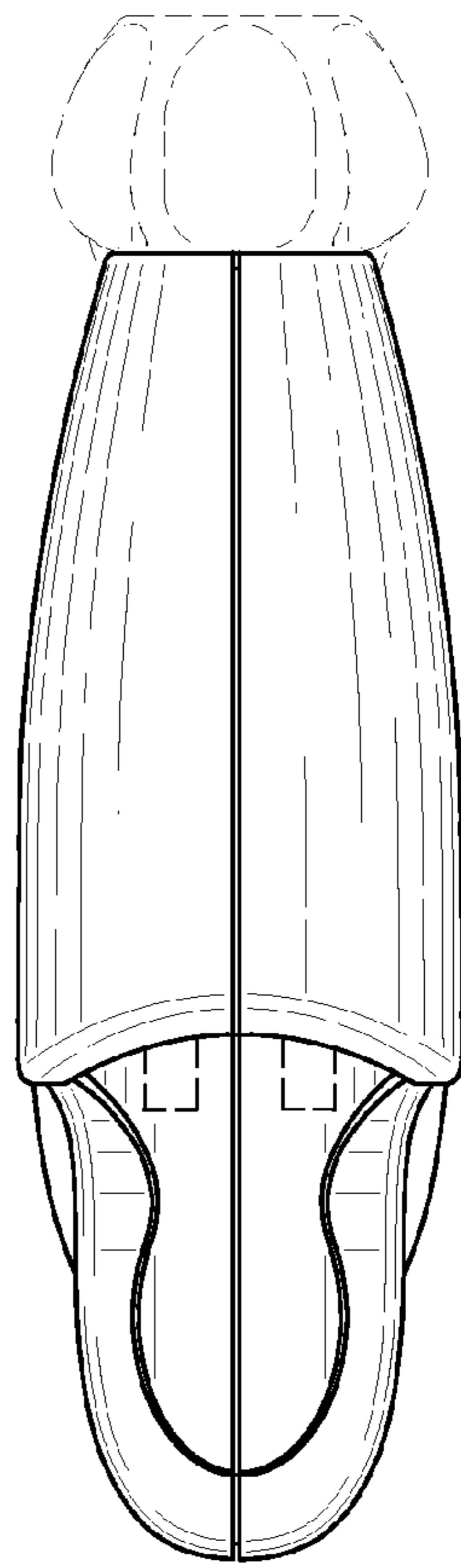


FIG. 5

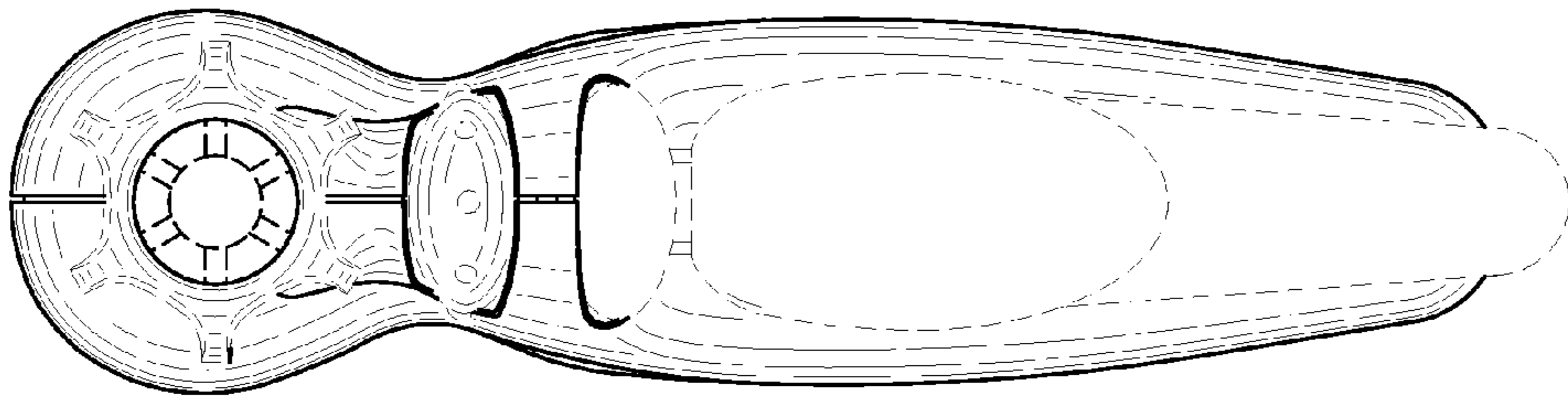


FIG. 7

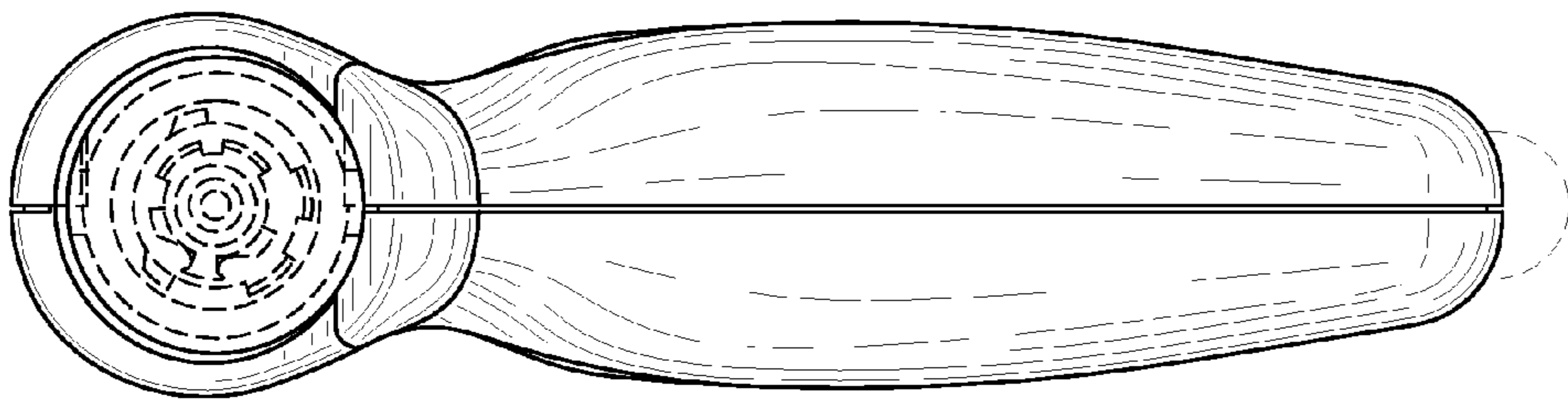


FIG. 6