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

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(54) **APPLICATOR INSTRUMENT**
(71) Applicant: **Ethicon, Inc.**, Somerville, NJ (US)
(72) Inventors: **Michael Cardinale**, Morristown, NJ (US); **Doug Souls**, Andover, NJ (US); **Simon Cohn**, Lebanon, NJ (US); **Jonathan B. Gabel**, Randolph, NJ (US); **Matthew D. Daniel**, Ann Arbor, MI (US); **Danial Paul Ferreira**, Milford, CT (US)
(73) Assignee: **Ethicon, Inc.**, Somerville, NJ (US)
(**) Term: **14 Years**

4,325,376 A	4/1982	Klieman et al.	
4,471,780 A	9/1984	Menges et al.	
4,478,220 A	10/1984	DiGiovanni et al.	
4,921,326 A	5/1990	Wild et al.	
5,104,394 A	4/1992	Knoepfler	
5,174,487 A	12/1992	Rothfuss et al.	
5,203,864 A	4/1993	Phillips	
D344,334 S *	2/1994	Dulebohn et al. D24/133
5,290,297 A	3/1994	Phillips	
5,395,381 A	3/1995	Green et al.	
D358,887 S *	5/1995	Feinberg D24/143
5,470,010 A	11/1995	Rothfuss et al.	
5,484,095 A	1/1996	Green et al.	
5,507,797 A	4/1996	Suzuki et al.	
5,582,616 A	12/1996	Bolduc et al.	
5,601,573 A	2/1997	Fogelberg et al.	
5,607,436 A	3/1997	Pratt et al.	

(Continued)

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(52) **U.S. Cl.**
USPC **D24/133**
(58) **Field of Classification Search**
CPC .. A61B 17/00; A61B 18/00; A61B 17/00491;
A61B 1/00105; A61B 1/0052; A61B 1/0058;
A61B 1/00052; A61B 1/00066; A61B
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A61M 37/04
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See application file for complete search history.

Primary Examiner — Bridget L Eland
(74) *Attorney, Agent, or Firm* — Doherty IP Law Group
L.L.C.

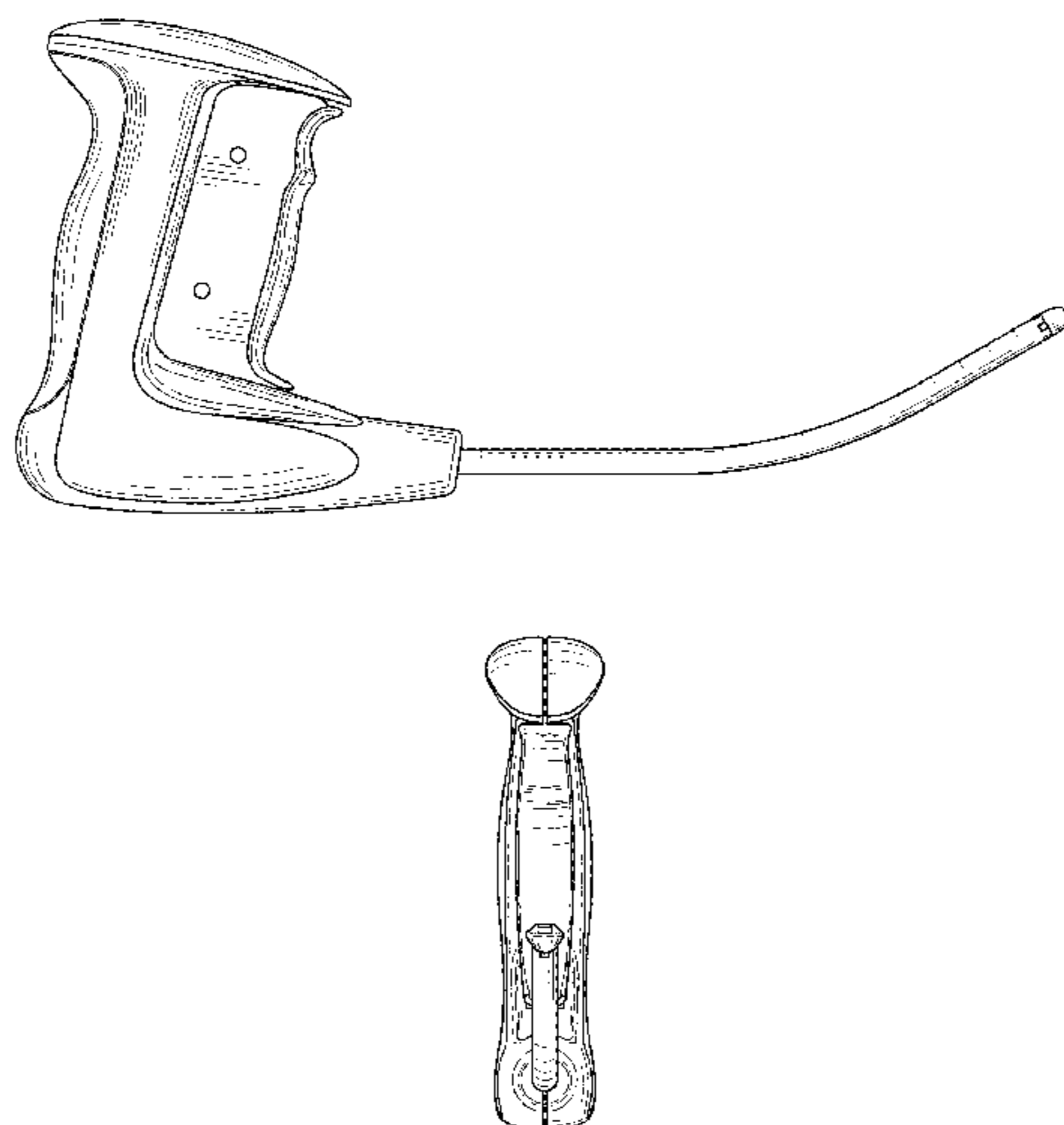
(57) **CLAIM**
The ornamental design for an applicator instrument, as shown
and described.

DESCRIPTION

FIG. 1 is a perspective view of an applicator instrument,
showing our new design;
FIG. 2 is a right side view of the applicator instrument shown
in FIG. 1;
FIG. 3 is a left side view of the applicator instrument shown in
FIG. 1;
FIG. 4 is a front elevation view of the applicator instrument
shown in FIG. 1;
FIG. 5 is a rear elevation view of the applicator instrument
shown in FIG. 1;
FIG. 6 is a top plan view of the applicator instrument shown
in FIG. 1; and,
FIG. 7 is a bottom plan view of the applicator instrument
shown in FIG. 1.

1 Claim, 4 Drawing Sheets

(56) **References Cited**
U.S. PATENT DOCUMENTS
D143,662 S * 1/1946 Korengold D24/136
3,740,994 A 6/1973 DeCarlo, Jr.
4,196,836 A 4/1980 Becht



(56)

References Cited

U.S. PATENT DOCUMENTS

5,624,453	A	4/1997	Ahmed				
5,676,674	A	10/1997	Bolanos et al.				
5,722,934	A *	3/1998	Knight et al.	600/201			
5,810,882	A	9/1998	Bolduc et al.				
5,830,221	A	11/1998	Stein et al.				
5,833,700	A	11/1998	Fogelberg et al.				
5,902,315	A *	5/1999	DuBois	606/190			
5,921,997	A	7/1999	Fogelberg et al.				
6,258,105	B1	7/2001	Hart et al.				
6,334,446	B1	1/2002	Beyar				
6,425,900	B1	7/2002	Knodel et al.				
6,443,970	B1 *	9/2002	Schulze et al.	606/171			
D466,213	S *	11/2002	Snitkin et al.	D24/145			
6,779,701	B2	8/2004	Bailly et al.				
7,172,605	B2	2/2007	Berrekouw				
7,442,167	B2	10/2008	Dunki-Jacobs et al.				
7,455,208	B2	11/2008	Wales et al.				
7,648,514	B1	1/2010	Nakao				
7,666,193	B2	2/2010	Starksen et al.				
D622,380	S *	8/2010	Vernooij et al.	D24/135			
7,766,207	B2	8/2010	Mather et al.				
D623,739	S *	9/2010	Vernooij et al.	D24/133			
D623,741	S *	9/2010	Kupferschmid et al.	D24/135			
D631,964	S *	2/2011	Miles et al.	D24/145			
7,886,953	B2	2/2011	Schwemberger et al.				
D638,540	S *	5/2011	Ijiri et al.	D24/133			
D640,789	S *	6/2011	Peine et al.	D24/133			
8,518,055	B1	8/2013	Cardinale et al.				
2002/0050277	A1	5/2002	Beyar				
2002/0095181	A1	7/2002	Beyar				
2002/0183762	A1	12/2002	Anderson et al.				
2005/0139629	A1	6/2005	Schwemberger et al.				
2007/0043384	A1	2/2007	Ortiz et al.				
2007/0191868	A1	8/2007	Theroux et al.				
2009/0299382	A1	12/2009	Zargiebel				
2010/0057102	A1	3/2010	Sorrentino et al.				
2010/0234687	A1	9/2010	Azarbarzin et al.				
2010/0292710	A1	11/2010	Daniel et al.				
2010/0292712	A1	11/2010	Nering et al.				
2010/0292713	A1	11/2010	Cohn et al.				
2010/0292715	A1	11/2010	Nering et al.				
2010/0327042	A1	12/2010	Amid et al.				
2011/0079627	A1	4/2011	Cardinale et al.				
2012/0175401	A1	7/2012	Bachman				
2013/0245681	A1	9/2013	Straehnz et al.				
2013/0267970	A1	10/2013	Cardinale et al.				

* cited by examiner

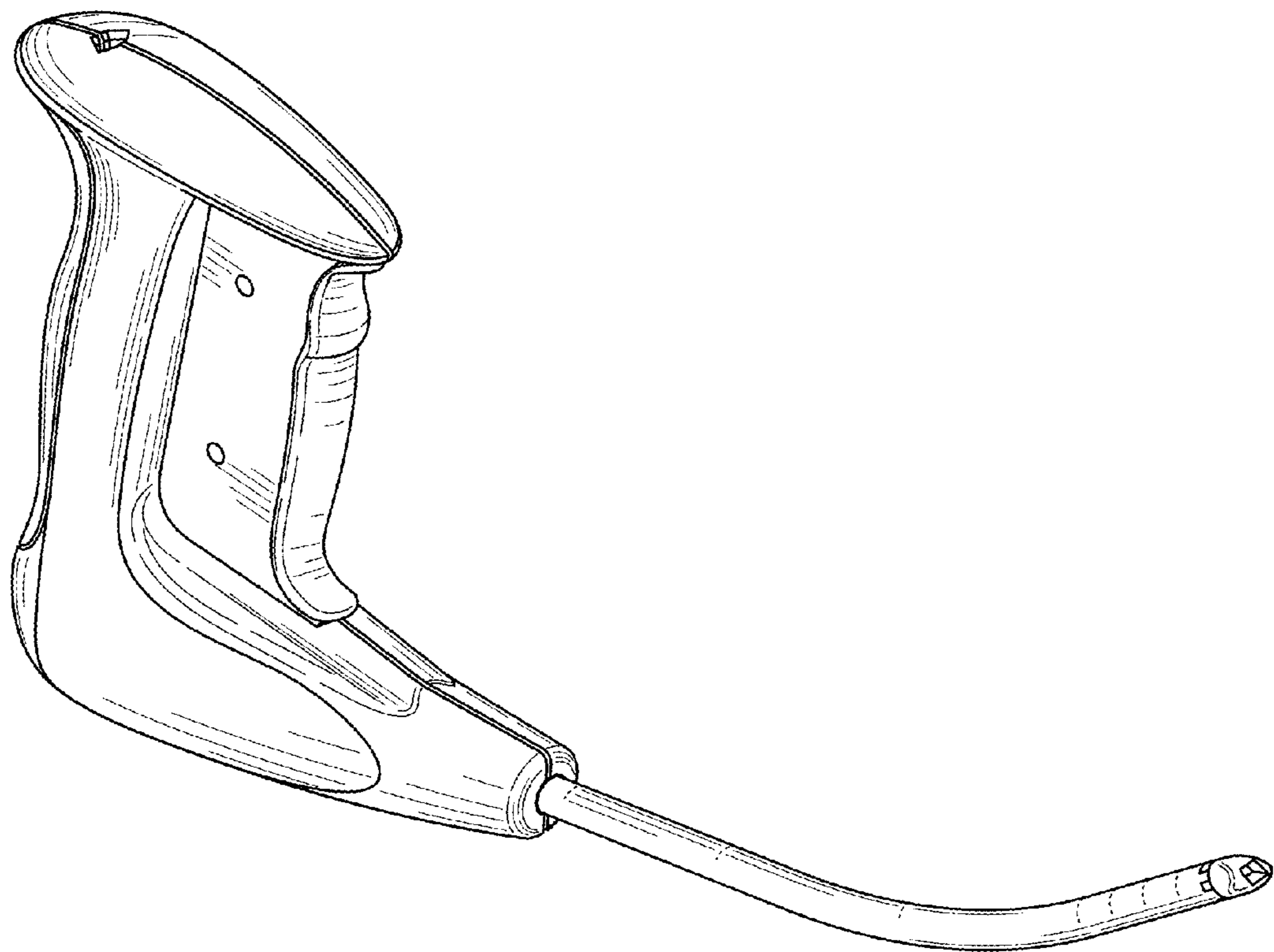


FIG. 1

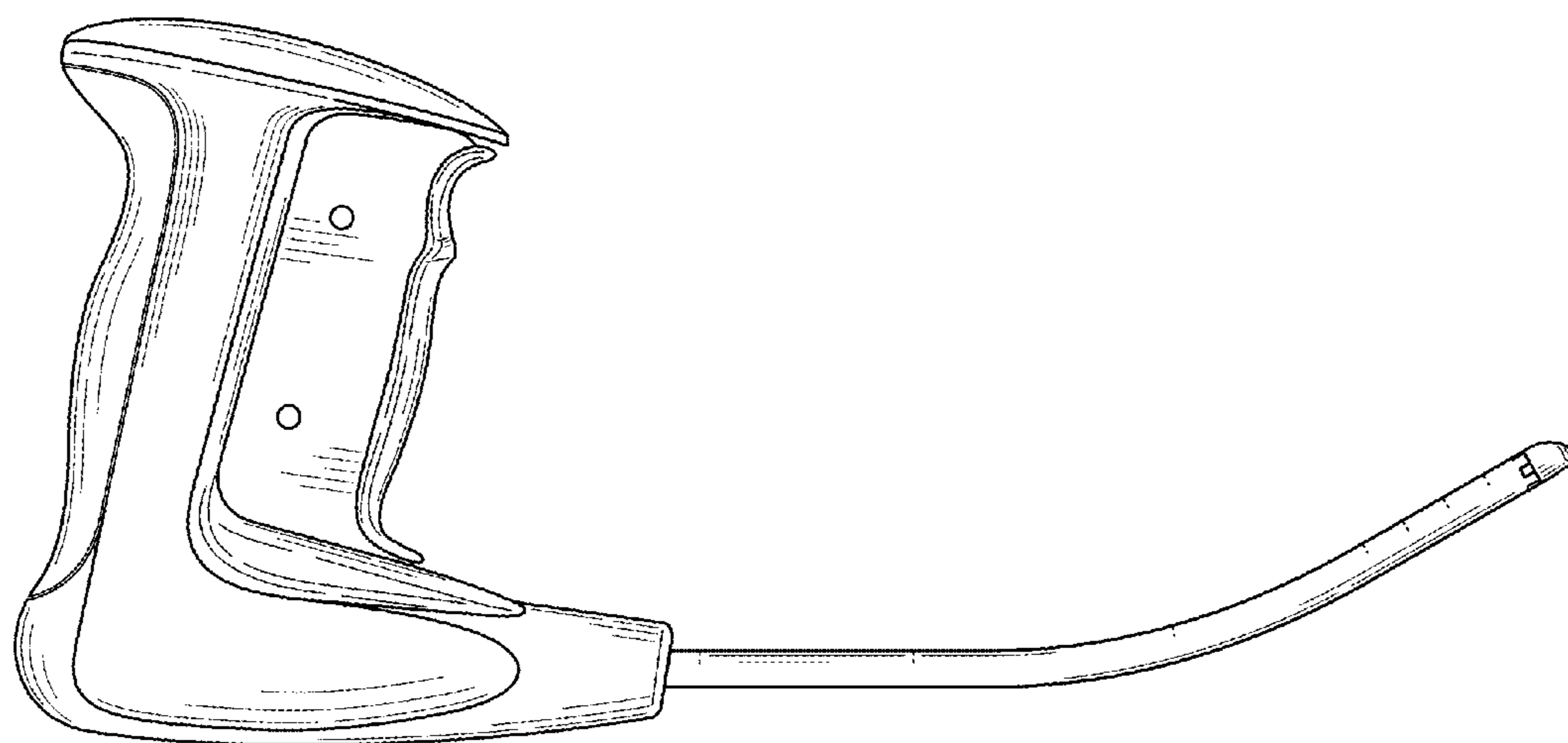


FIG. 2

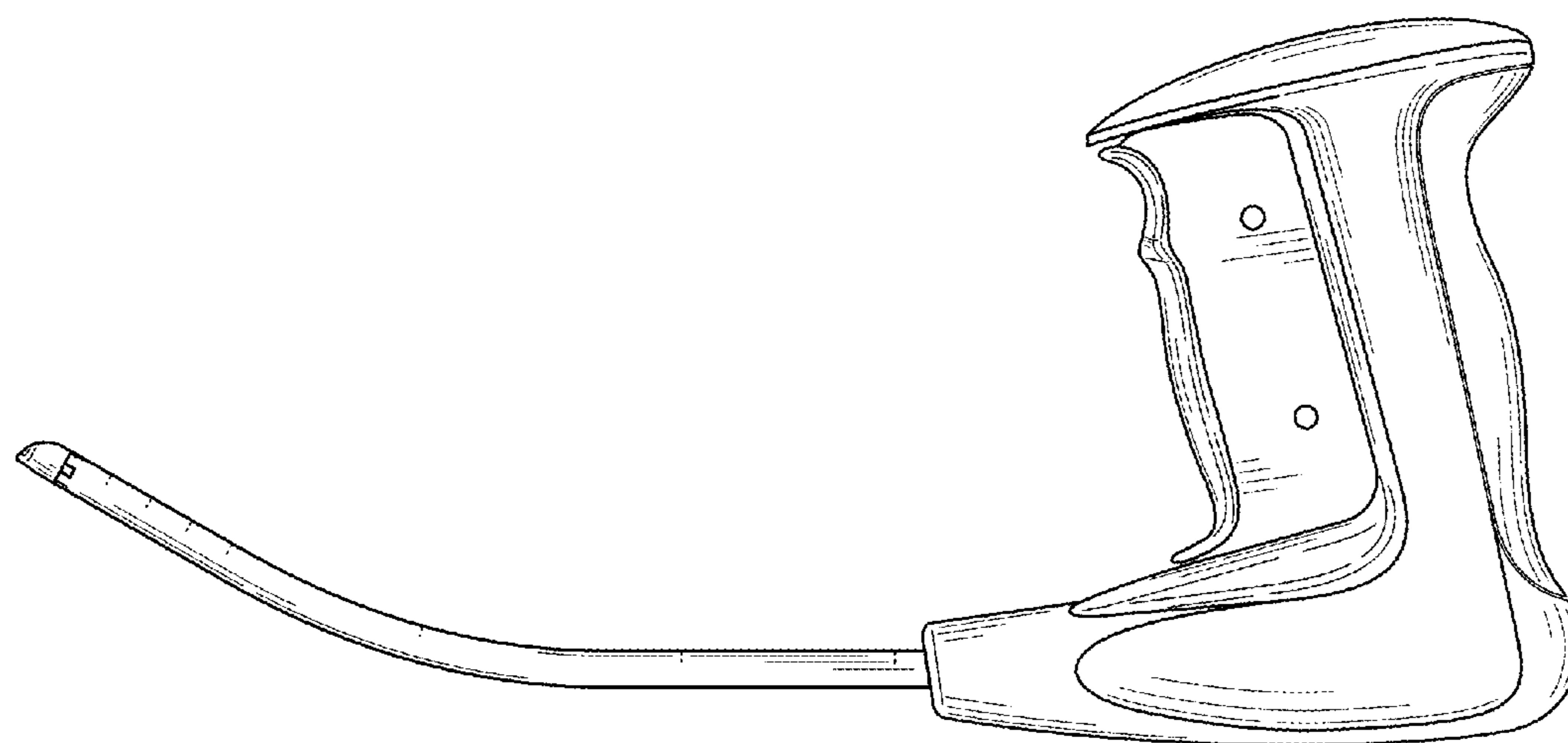


FIG. 3

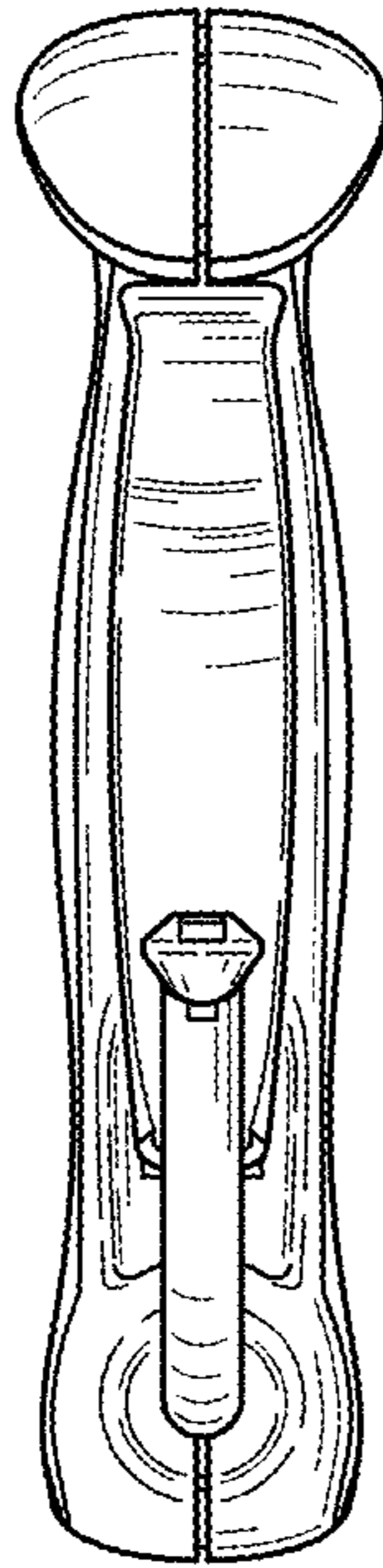


FIG. 4

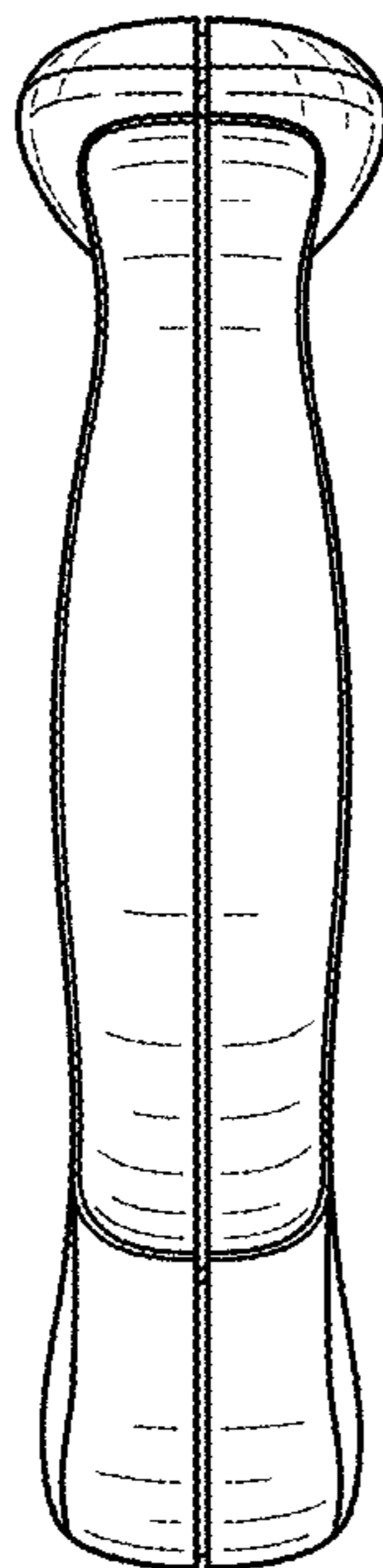


FIG. 5

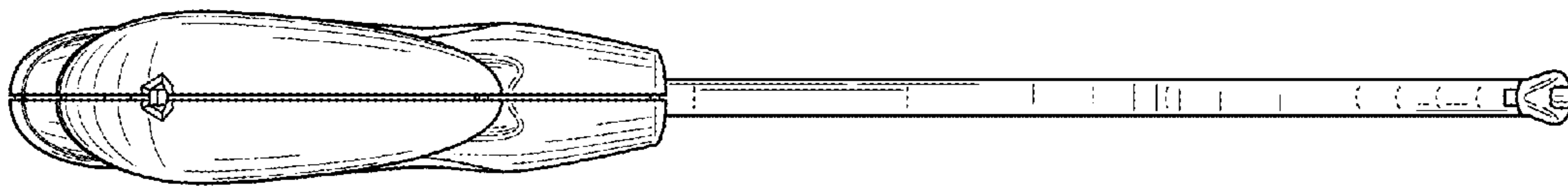


FIG. 6

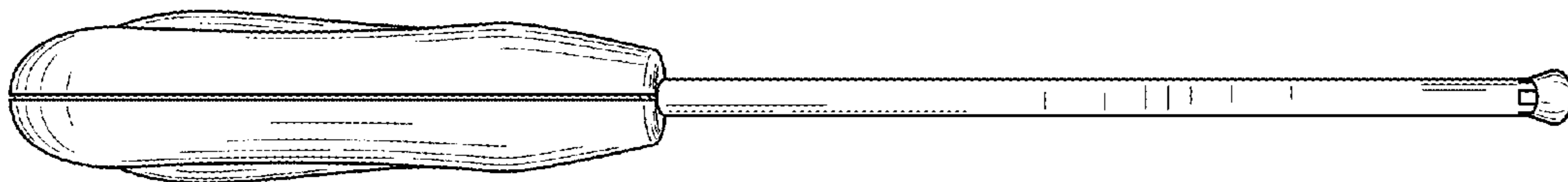


FIG. 7