



US00D763222S

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

(10) **Patent No.:** **US D763,222 S**
(45) **Date of Patent:** **** Aug. 9, 2016**

(54) **IN-EAR HEADPHONE DEVICE HAVING A HEADPHONE HOUSING MADE OF TITANIUM ALLOY**

(71) Applicants: **Xiuquan Tang**, Zhongshan (CN);
Changzhi Yao, Shenzhen (CN)

(72) Inventors: **Xiuquan Tang**, Zhongshan (CN);
Changzhi Yao, Shenzhen (CN)

(73) Assignee: **Echobox Audio, LLC**

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

(21) Appl. No.: **29/514,918**

(22) Filed: **Jan. 18, 2015**

(51) **LOC (10) Cl.** **14-01**

(52) **U.S. Cl.**
USPC **D14/205**

(58) **Field of Classification Search**
USPC D14/205, 223; 181/129, 130, 135;
379/430, 431; 381/380, 381, 370, 384;
455/90.3, 575.1
CPC H04R 25/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,279,396	A *	9/1918	Michelson et al.	A61F 11/08 128/868
2,120,469	A *	6/1938	Kyle	F16G 11/04 439/787
D171,613	S *	3/1954	O'Neil	D14/205
2,857,581	A *	10/1958	Henning	H01R 43/24 264/279
3,303,902	A *	2/1967	Knott	A61B 7/02 181/135
3,702,123	A *	11/1972	Machen et al.	H04R 25/652 181/135
D231,613	S *	5/1974	Sarber	D14/206
D241,881	S *	10/1976	Peterson et al.	D24/106
D266,163	S *	9/1982	Moussette	D14/205
6,056,082	A *	5/2000	Lindgren	A61F 11/12 128/864
D469,753	S *	2/2003	Andre	D14/205

D511,157	S *	11/2005	Johnson	D14/223
D515,070	S *	2/2006	Andre	D14/205
D567,185	S *	4/2008	Mayo	D13/158
D569,841	S *	5/2008	Chung	D14/205
D578,508	S *	10/2008	Wang	D14/206
D589,028	S *	3/2009	Haapapuro	D14/206

(Continued)

Primary Examiner — Paula Greene

(74) *Attorney, Agent, or Firm* — Jie Tan; JT Law Services, PC

(57) **CLAIM**

The ornamental design for in-ear headphone device having a headphone housing made of titanium alloy, as shown and described.

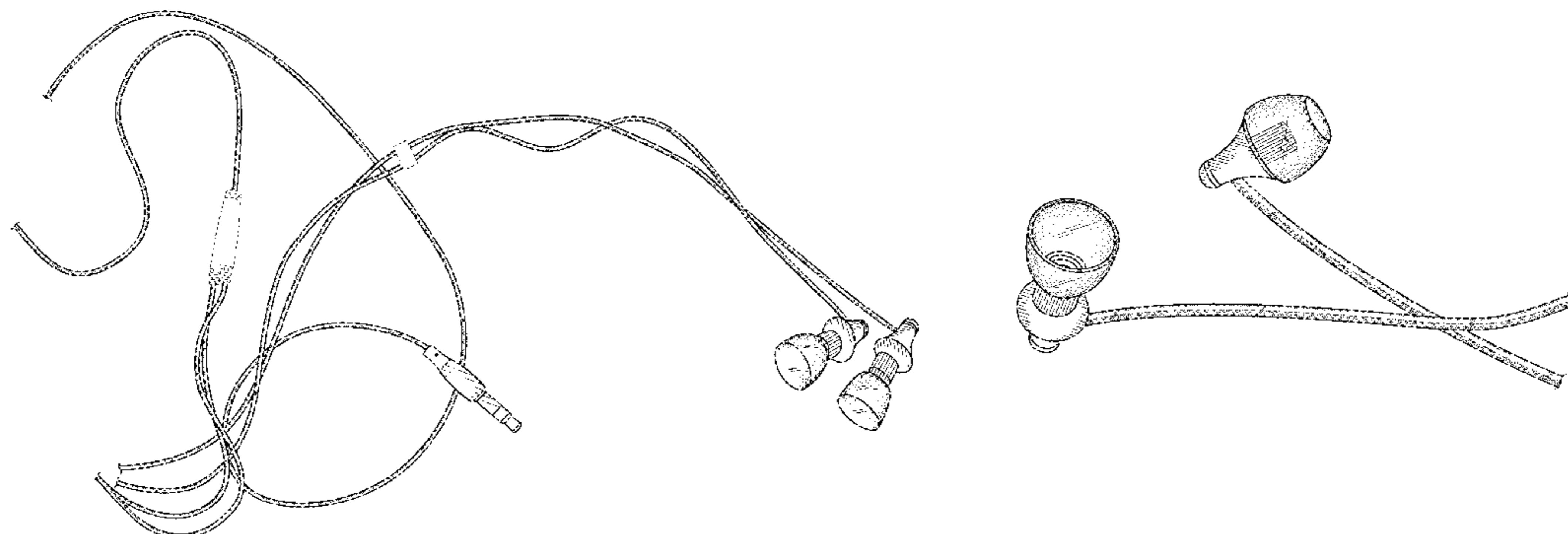
DESCRIPTION

FIG. 1 is a perspective view of an embodiment of an in-ear headphone device with the ear tips unfolded;
 FIG. 2 is an enlarged side view of the earbuds folded shown separately for purposes of illustration;
 FIG. 3 is an enlarged side view of the earbuds of FIG. 1 shown separately for purposes of illustration;
 FIG. 4 is an enlarged perspective view of the earbuds thereof, shown separately for purposes of illustration;
 FIG. 5 is an enlarged view thereof;
 FIG. 6 is an enlarged view of the earbuds thereof;
 FIG. 7 is an enlarged bottom view of one earbud shown separately for purposes of illustration;
 FIG. 8 is an enlarged side view of one earbud shown separately for purposes of illustration; and,
 FIG. 9 is an enlarged side view of a phono plug shown separately for purposes of illustration.

The phono plug has a holding body made of titanium alloy, reflective with the unique shining of titanium alloy. The wrapping sheath or cover of the connection cable between the earbuds is half transparent and the metal conductive wires inside of the cable are visible, with the look and feel of the simplicity of rawness. The interior of the unfolded ear tip in the FIG. 4 is the same as the interior of the folded ear tip in FIG. 5.

The holding tubular extrusion of the ear tip is shaded for the color red and is visible through the semi transparent skin of silicon or rubber ear tip.

1 Claim, 9 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D590,810 S *	4/2009	Komiyama	D14/205	8,218,808 B2 *	7/2012	Xu	H04R 1/1033 381/370
D591,264 S *	4/2009	Hong	D14/205	D681,001 S *	4/2013	Murchison	D14/205
D593,999 S *	6/2009	Mauritzsson	D14/223	8,422,717 B2 *	4/2013	Lin	H04R 1/1091 181/129
D597,071 S *	7/2009	Andre	D14/206	D685,764 S *	7/2013	Coulter	D14/205
D599,778 S *	9/2009	Ando	D14/205	8,848,965 B2 *	9/2014	Glaser	H04R 1/1033 248/74.3
D605,628 S *	12/2009	Ando	D14/205	D727,871 S *	4/2015	Orbach	D14/205
D643,014 S *	8/2011	Goransson	D14/205	2005/0036644 A1 *	2/2005	Yang	H04R 1/1091 381/384
D648,316 S *	11/2011	Lee	D14/205	2013/0170692 A1 *	7/2013	Kaneko	H04R 1/1033 381/380
D653,235 S *	1/2012	McManigal	D14/205				
8,144,915 B2 *	3/2012	Hankey	H01H 9/0228 381/370				

* cited by examiner

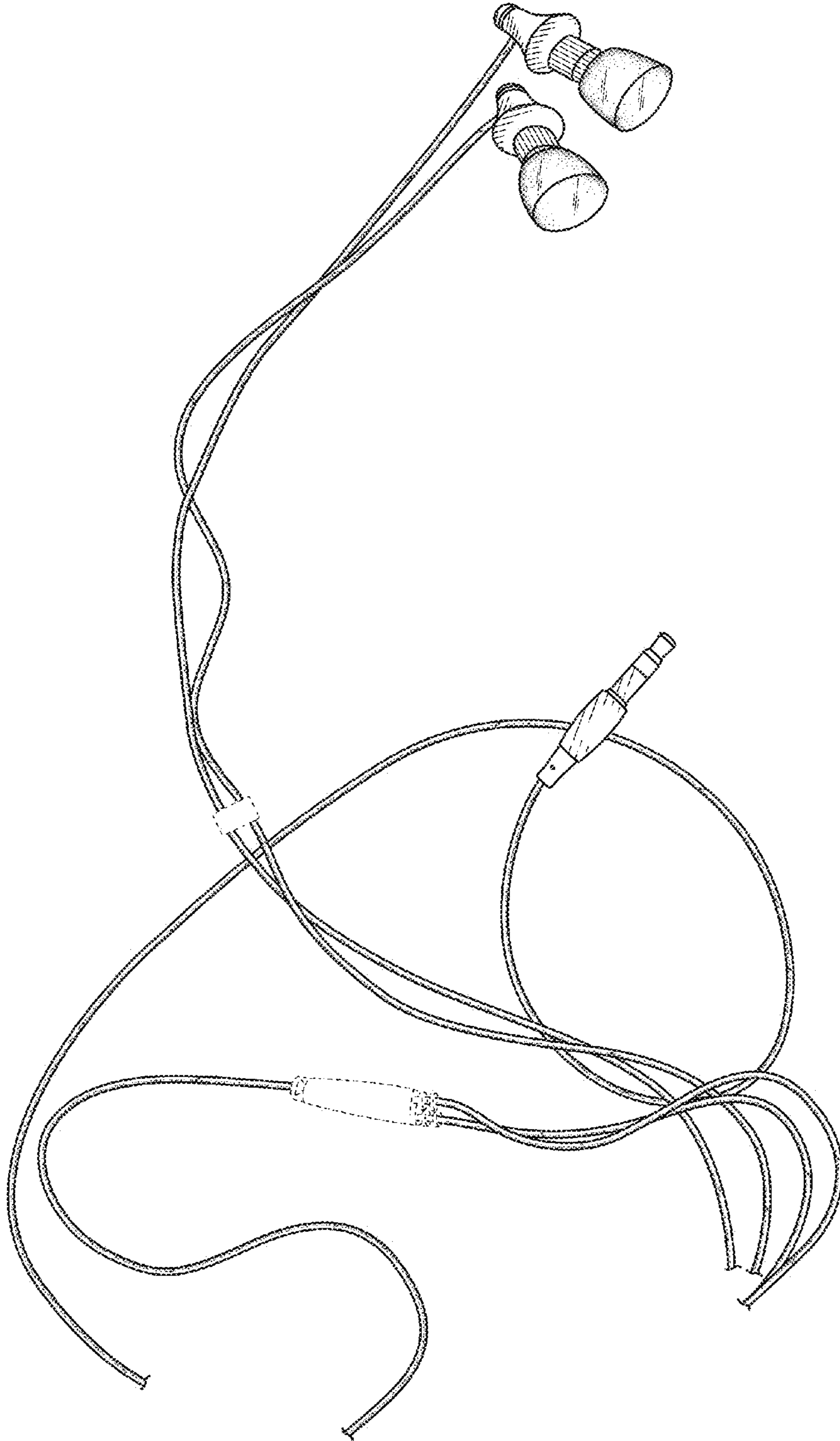


FIG. 1

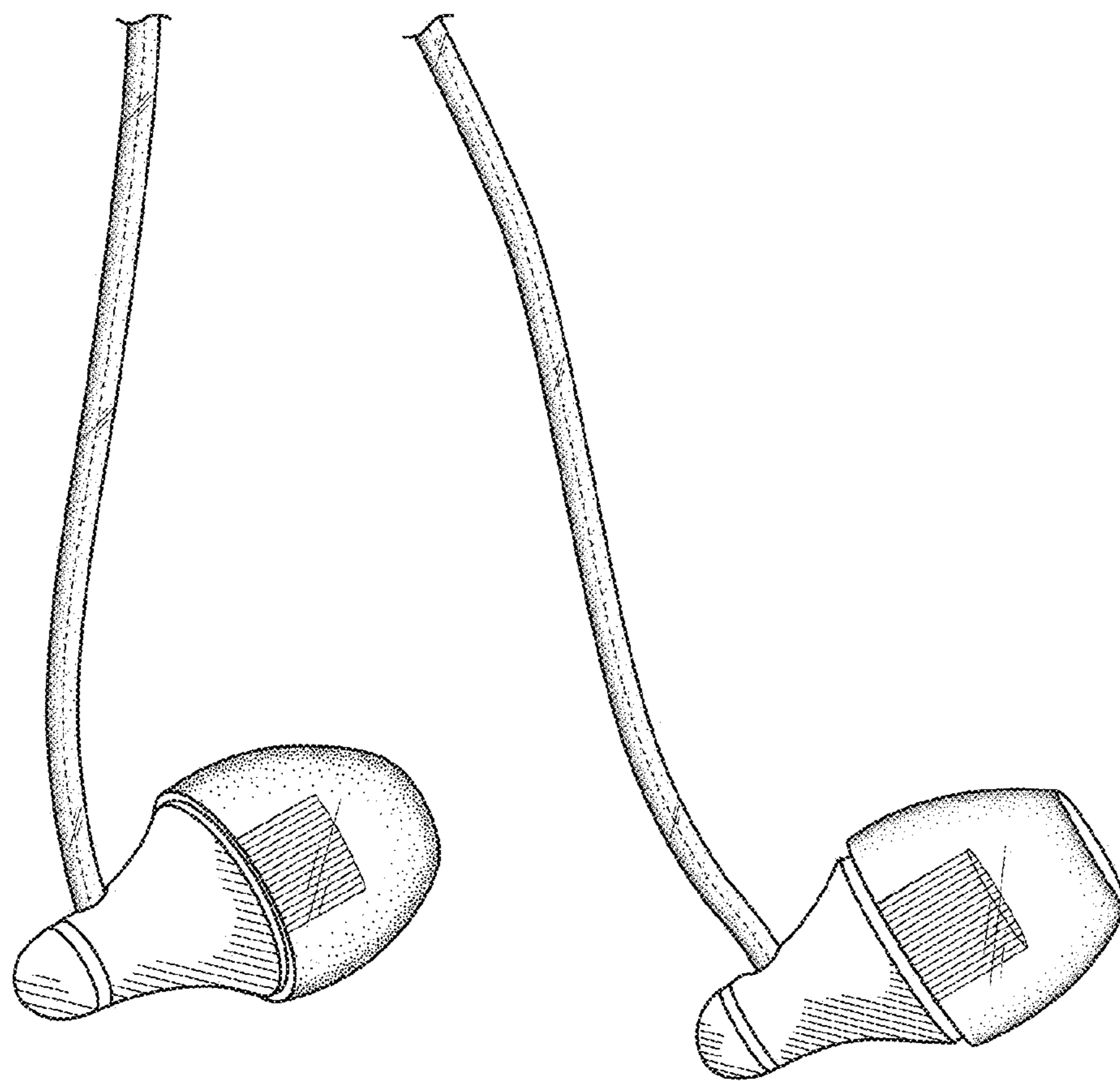


FIG. 2

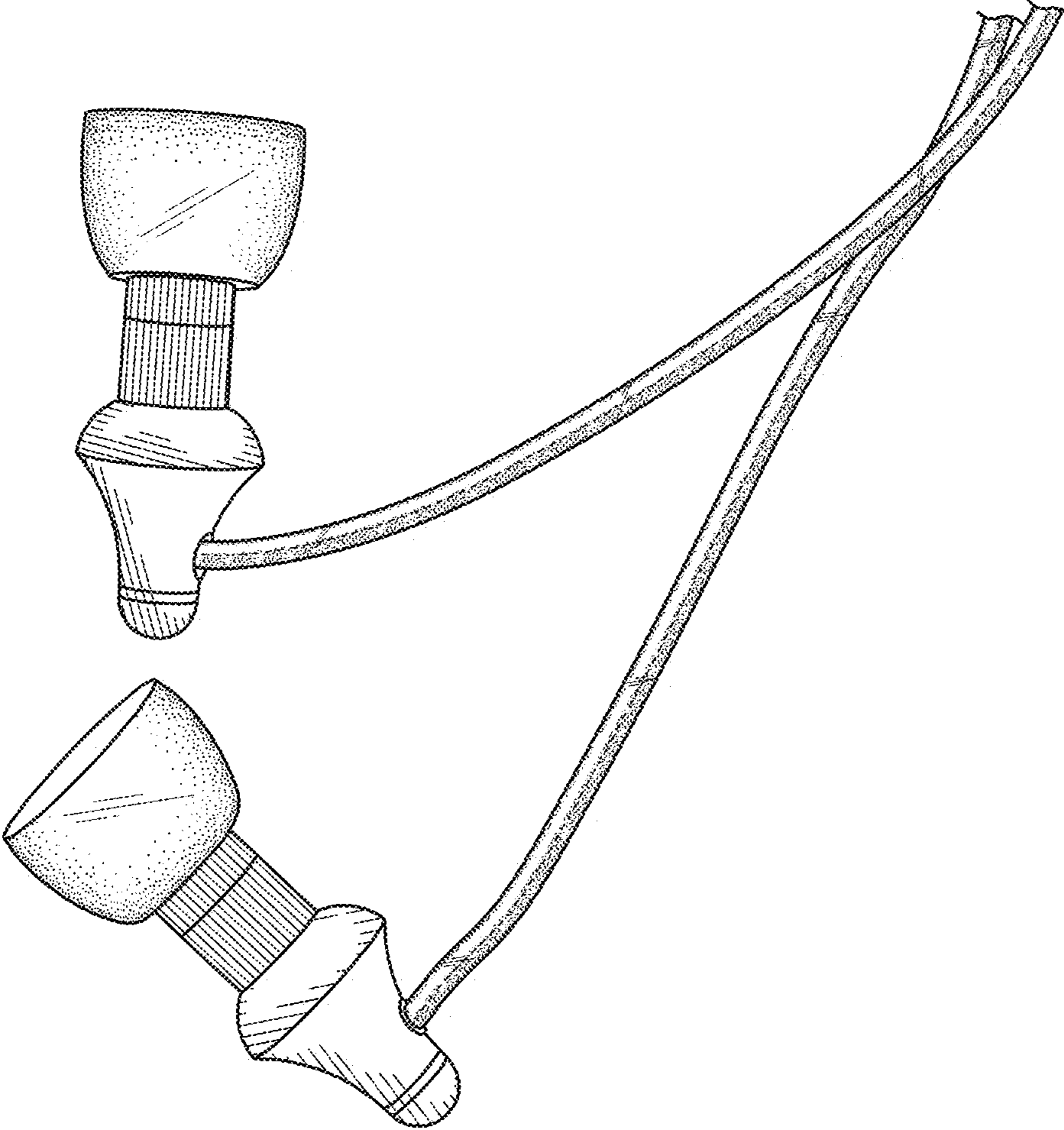


FIG. 3

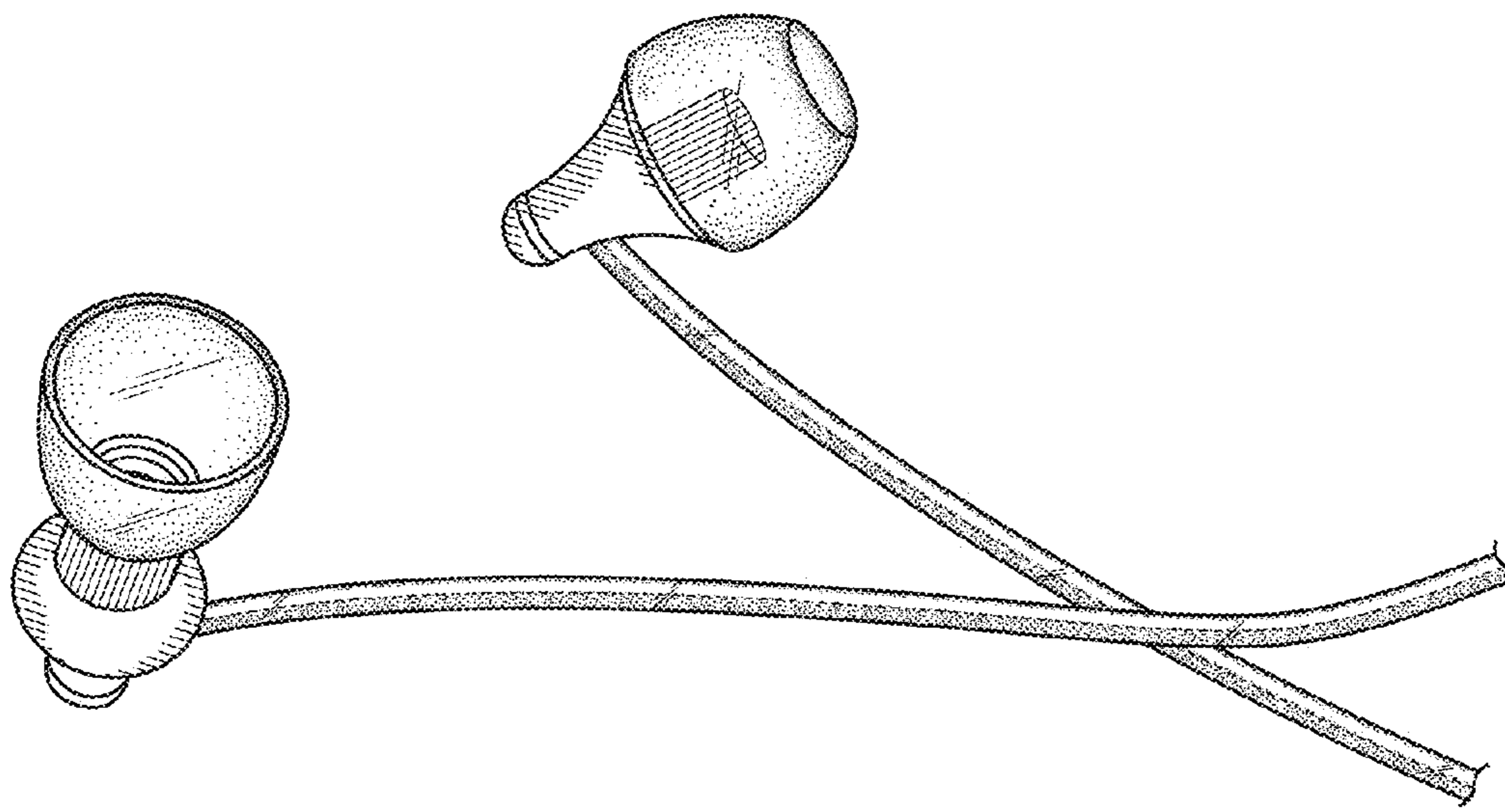


FIG. 4

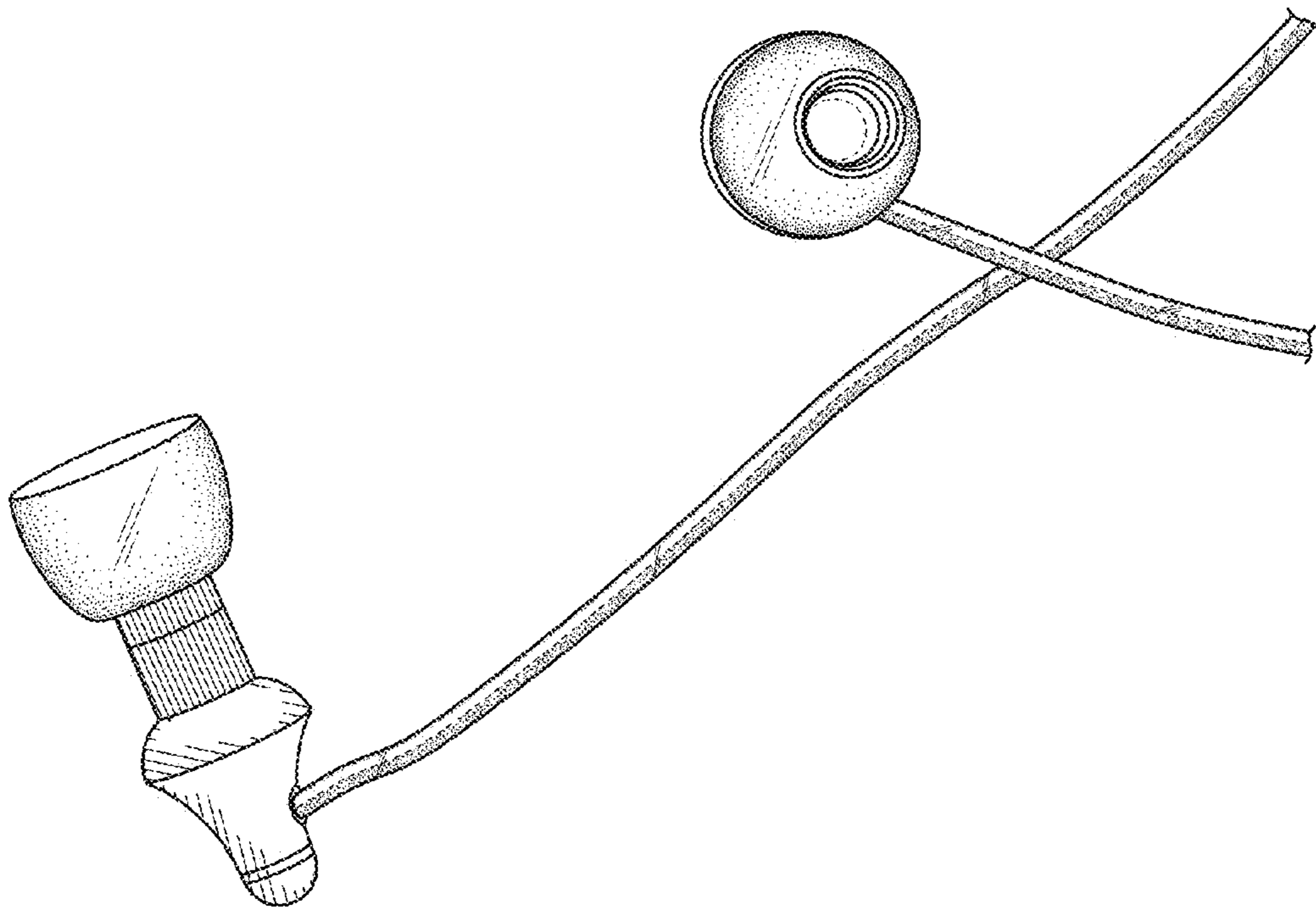


FIG. 5

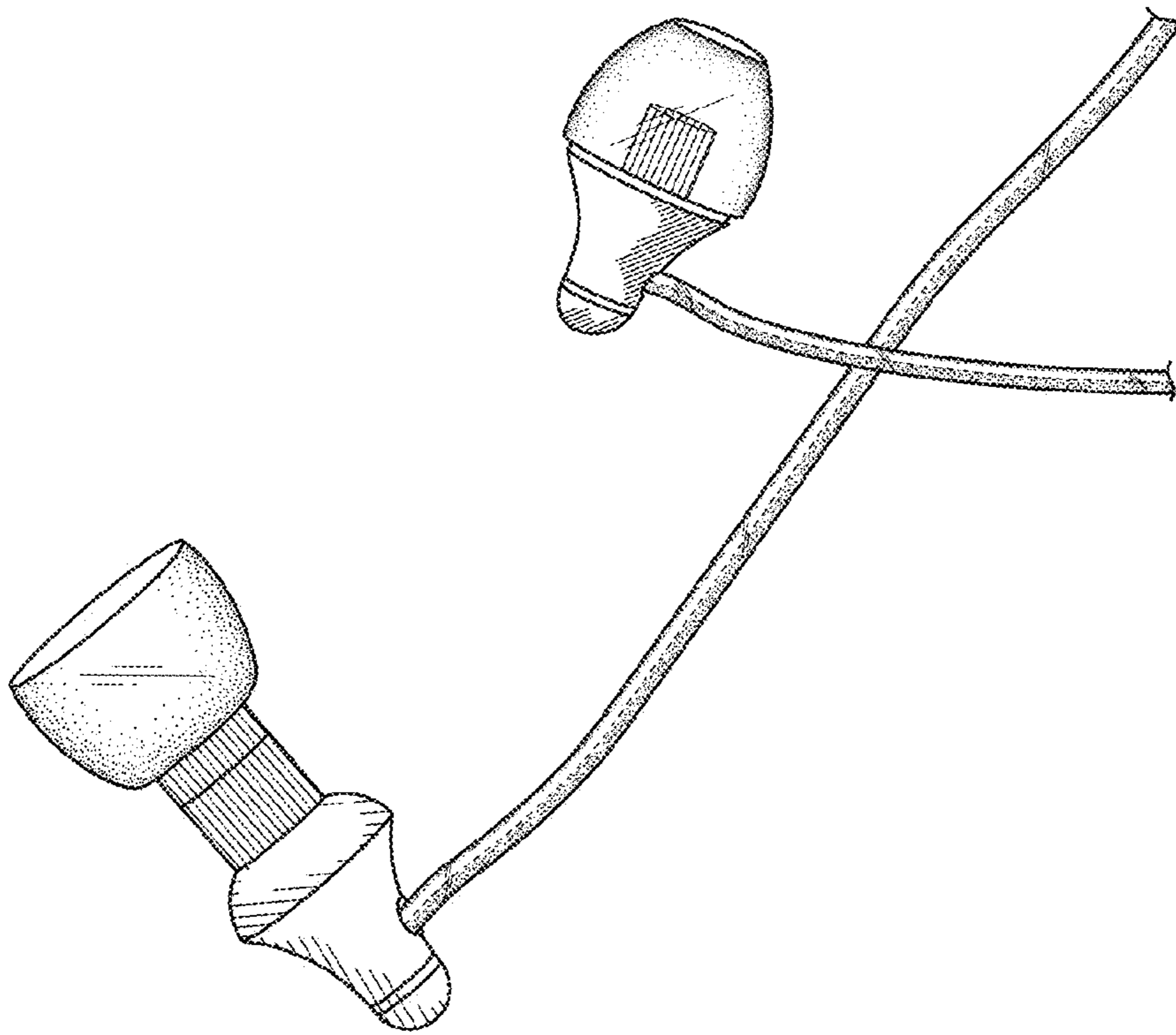


FIG. 6

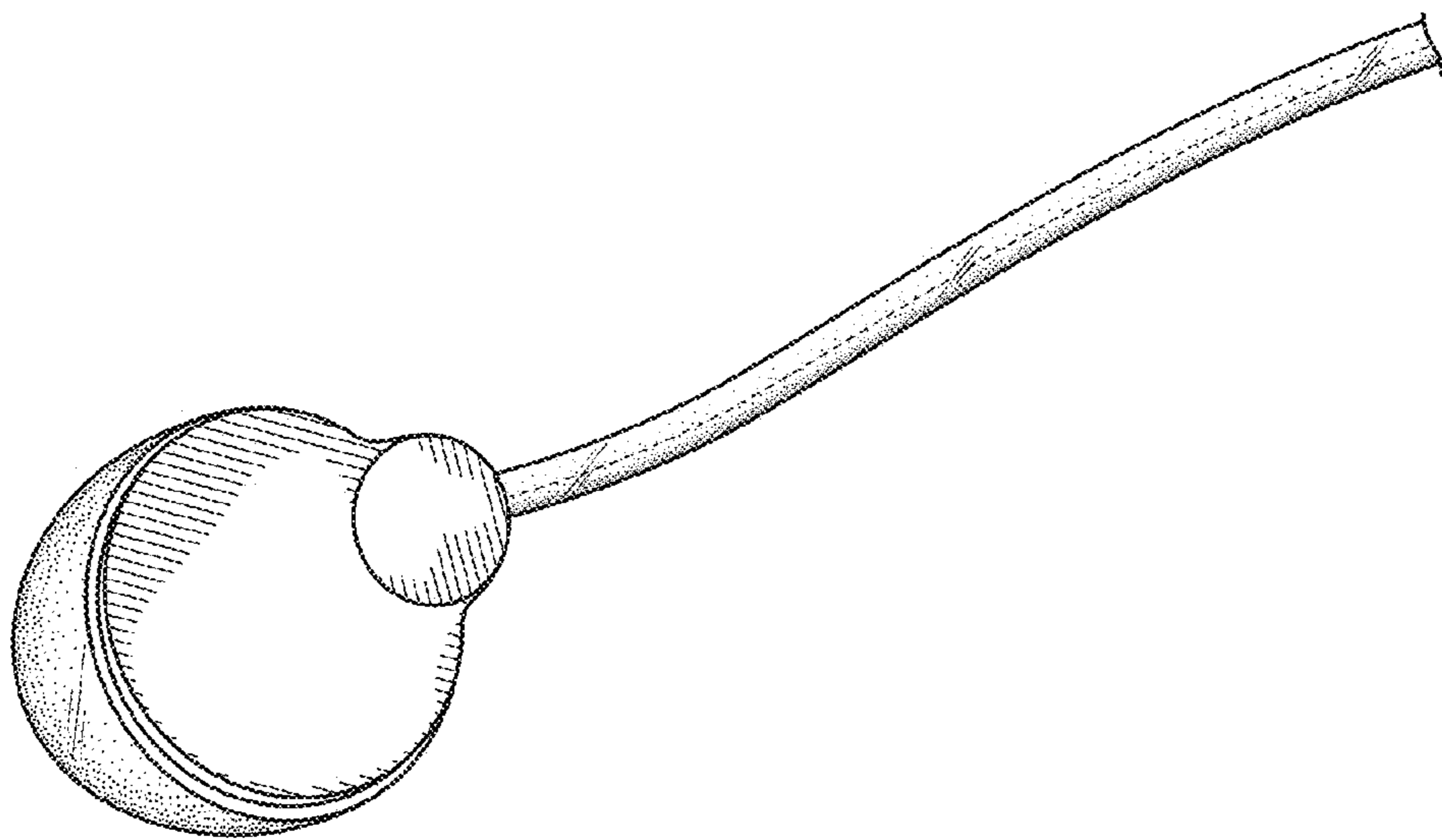


FIG. 7

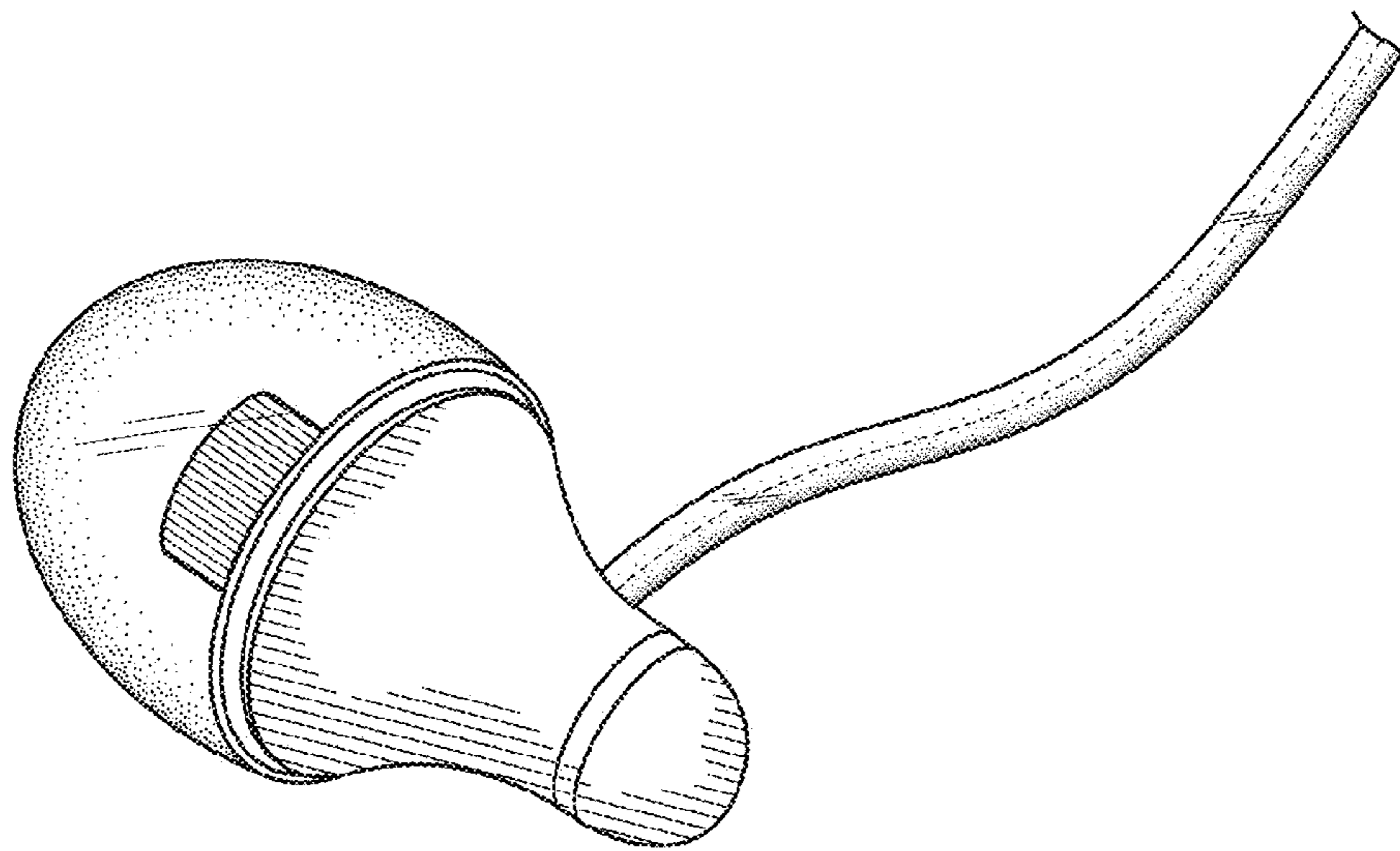


FIG. 8

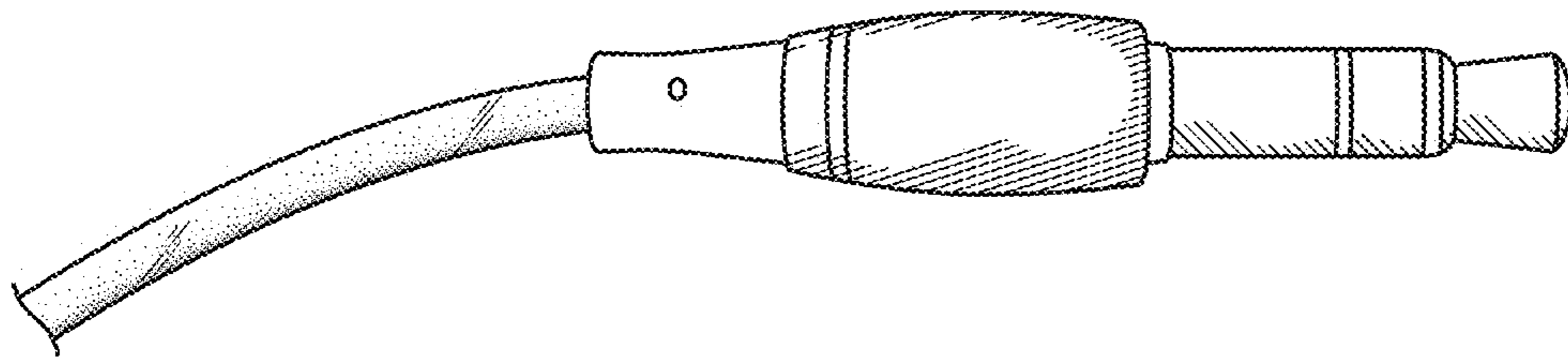


FIG. 9