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**Rich et al.**

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(54) **NASAL ALAR PHOTOPLETHYSMOGRAPHY  
PROBE HOUSING**

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(52) **U.S. Cl.**  
USPC ..... **D24/187**; D24/164; D24/169

(58) **Field of Classification Search**  
USPC ..... D24/167–168, 186–187, 200;  
705/14.41; 600/372, 382, 383, 386,  
600/393, 19, 322–324, 340, 343–344, 335,  
600/479; 607/45, 46, 115, 139, 141;  
702/189; 128/204.23

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,817,010	A	10/1998	Hibl	
5,891,022	A *	4/1999	Pologe	600/323
6,647,279	B2 *	11/2003	Pologe	600/322
7,190,984	B1	3/2007	Delonzor et al.	
7,412,272	B2	8/2008	Medina	
7,522,948	B2	4/2009	Chin	
7,657,295	B2	2/2010	Coakley et al.	
D618,803	S *	6/2010	Lash et al.	D24/168
D629,521	S *	12/2010	Lash et al.	D24/168
7,869,849	B2	1/2011	Ollerdessen	

7,881,762	B2	2/2011	Kling et al.	
7,887,502	B2 *	2/2011	Ross et al.	600/19
D634,846	S *	3/2011	Vivenzio et al.	D24/167
7,899,510	B2	3/2011	Hoarau	
8,073,518	B2	12/2011	Chin	
8,229,532	B2	7/2012	Davis	
8,452,366	B2	5/2013	Gilland	
8,755,857	B2 *	6/2014	Melker et al.	600/344
2007/0027375	A1 *	2/2007	Melker et al.	600/340
2011/0046464	A1 *	2/2011	Debreczeny et al.	600/335
2012/0053469	A1 *	3/2012	Melker	600/479
2012/0289799	A1 *	11/2012	Delianides et al.	600/322
2013/0276785	A1 *	10/2013	Melker et al.	128/204.23
2014/0243631	A1 *	8/2014	Melker	600/324

\* cited by examiner

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(57) **CLAIM**

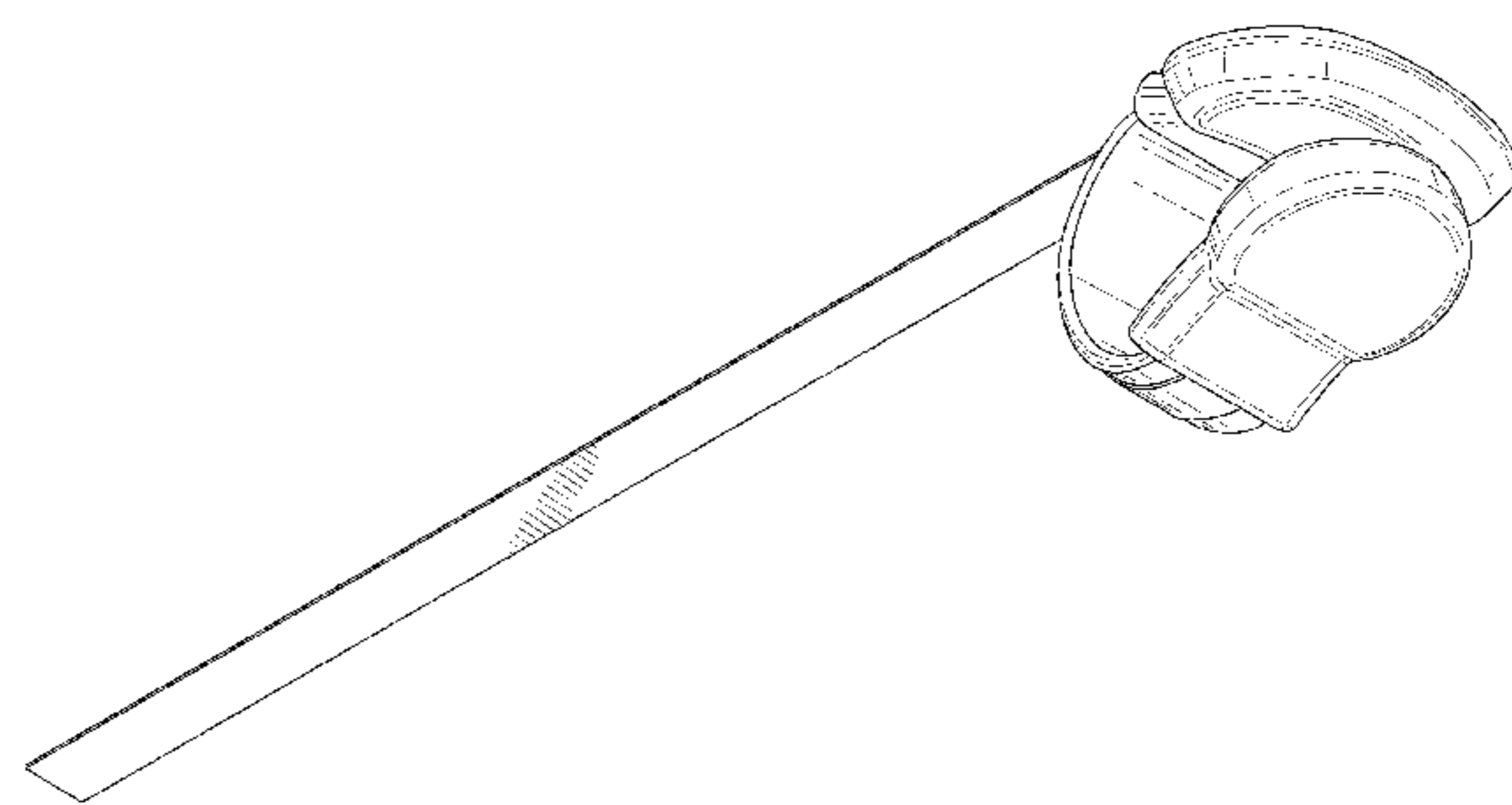
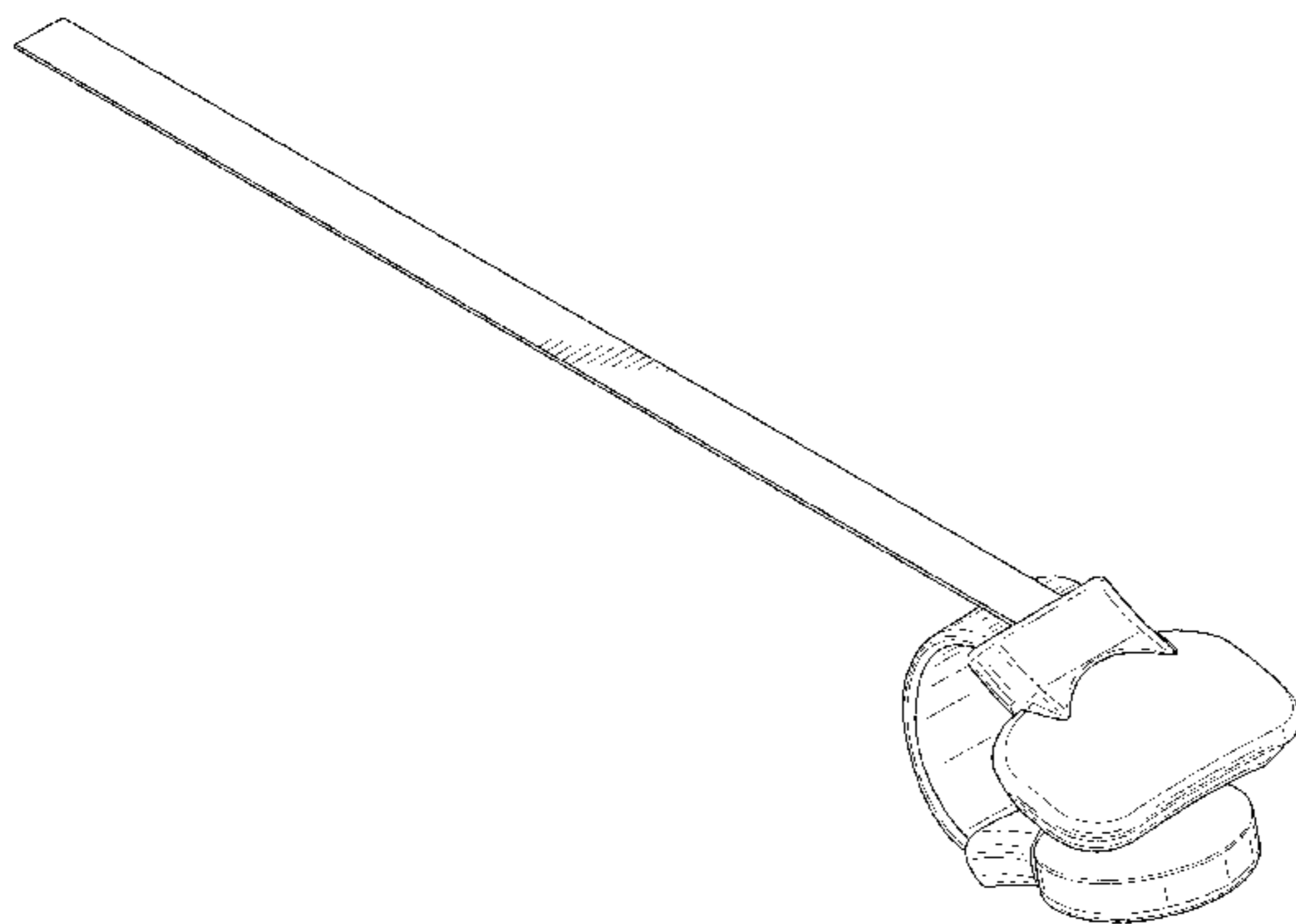
The ornamental design for a nasal alar photoplethysmography probe housing, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view from above of a nasal alar photoplethysmography probe housing showing our new design; FIG. 2 is a perspective view from below thereof; and, FIG. 3 provides an elevational side view thereof, with the opposite side view a mirror image of this view.

The design is for a photoplethysmographic (“PPG”) probe housing which, when emplaced at the nasal alar of a subject and operatively engaged therewith, secures light attenuation signal information from which useful physiologic information is derived.

**1 Claim, 3 Drawing Sheets**



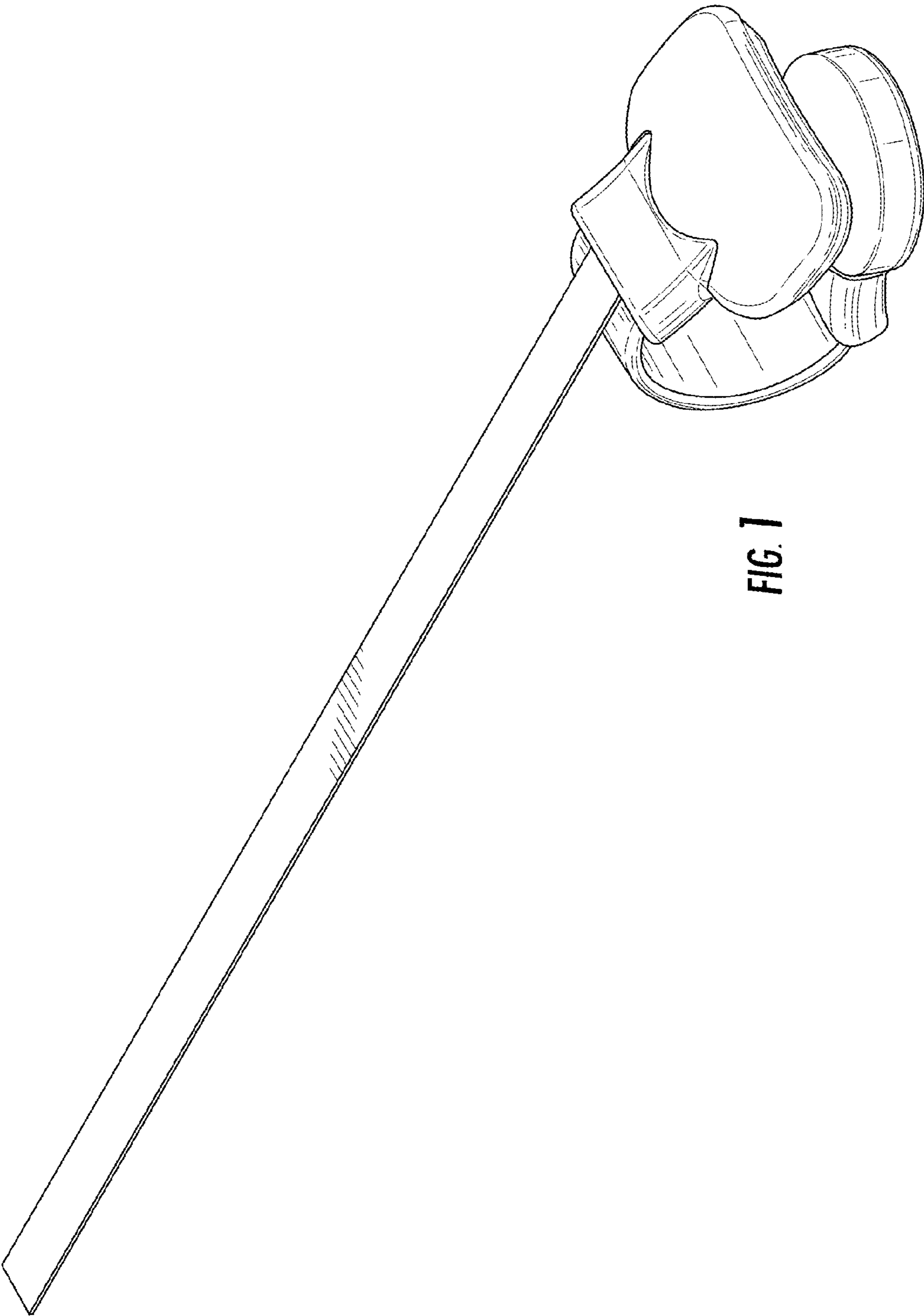


FIG. 1

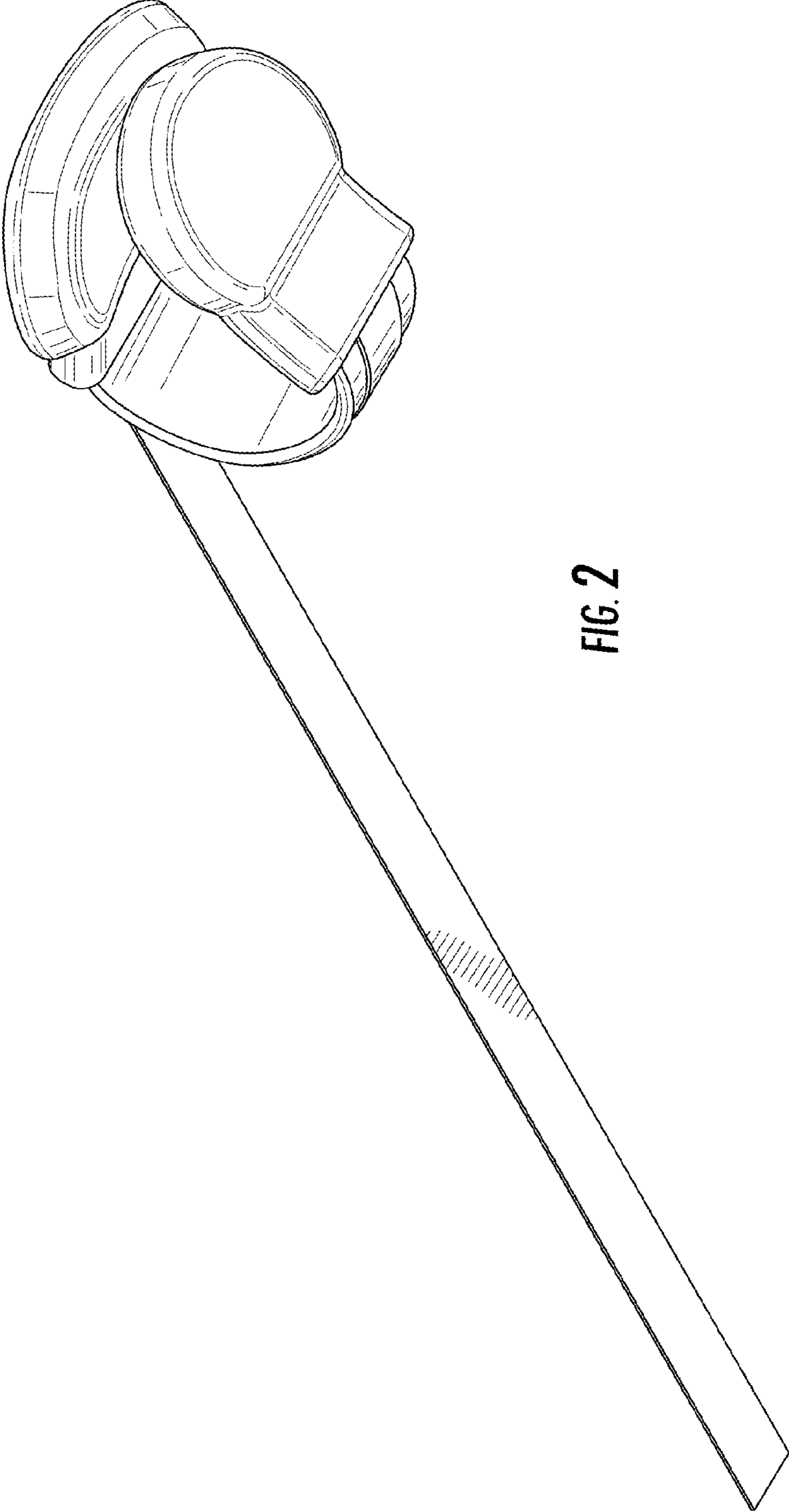


FIG. 2

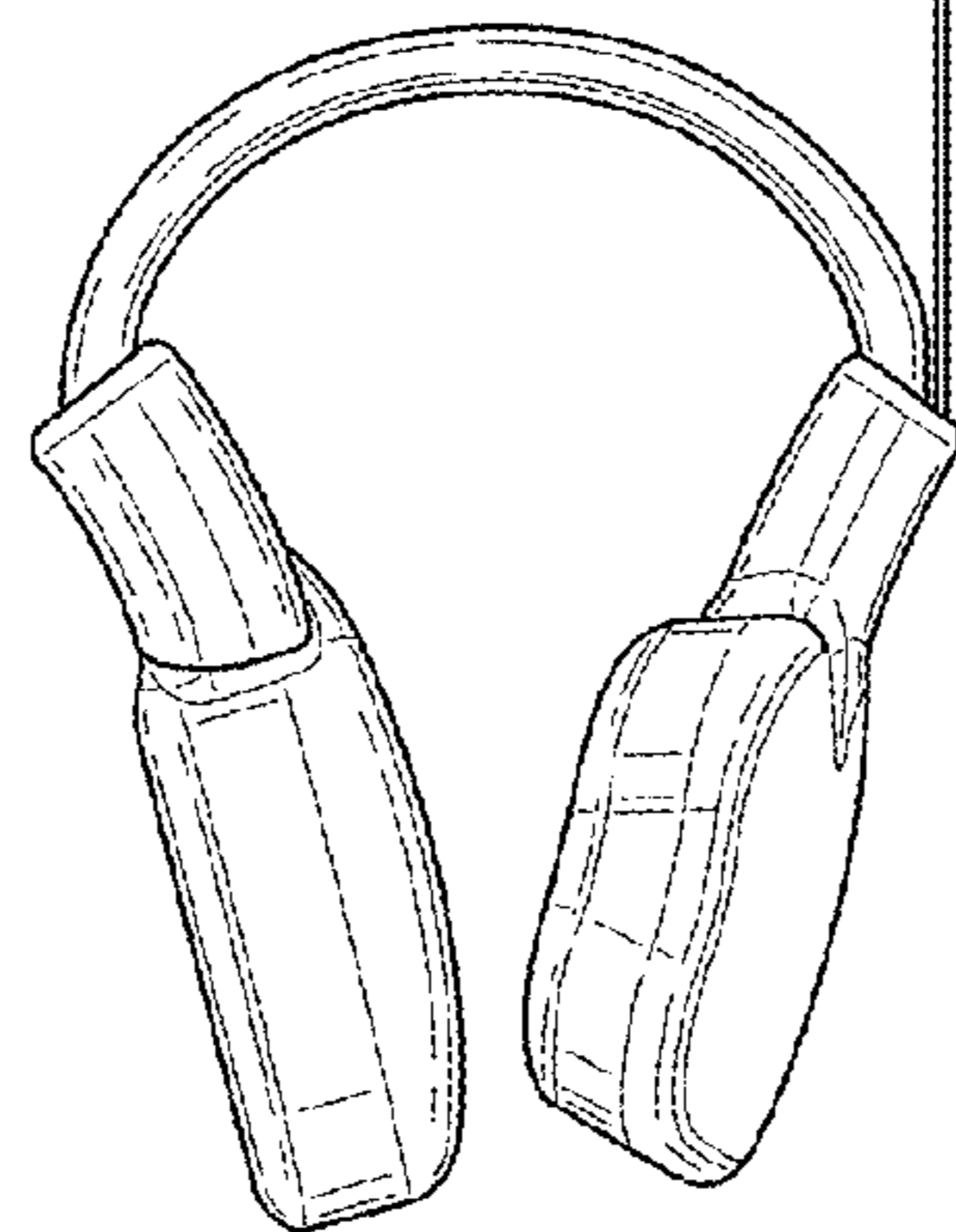


FIG. 3