



US00D706780S

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

(10) **Patent No.:** **US D706,780 S**  
(45) **Date of Patent:** **\*\* Jun. 10, 2014**

(54) **MODULAR HEADS-UP DISPLAY SYSTEM**

7,375,701 B2 5/2008 Covannon et al.  
D578,120 S \* 10/2008 Lowe et al. .... D14/372  
7,595,933 B2 9/2009 Tang

(71) Applicant: **Recon Instruments Inc.**, Vancouver  
(CA)

(Continued)

(72) Inventors: **Hamid Abdollahi**, Vancouver (CA);  
**Raymond C. M. Leung**, Vancouver  
(CA)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **Recon Instruments Inc.**, Vancouver  
(CA)

EP 1777953 A1 4/2007  
WO 2011/044680 A1 4/2011  
WO 2011/085501 A1 7/2011  
WO 2013/000075 A1 1/2013

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

Karalis et al., "Efficient wireless non-radiative mid-range energy transfer", *Annals of Physics*, 323, (2008), pp. 34-48.

(21) Appl. No.: **29/455,741**

(Continued)

(22) Filed: **May 23, 2013**

*Primary Examiner* — Austin Murphy

(51) **LOC (10) Cl.** ..... **14-02**

(74) *Attorney, Agent, or Firm* — Richard A. Johnson;  
Borden Ladner Gervais LLP

(52) **U.S. Cl.**

USPC ..... **D14/372**

(58) **Field of Classification Search**

USPC ..... D14/356–358, 361, 370, 372, 385, 388,  
D14/432–439, 447, 458, 474, 480.1, 483,  
D14/484.1, 217, 239, 299; D8/349, 354,  
D8/395; D16/100, 330, 300, 309; 345/7–9;  
351/158; 359/633, 630

See application file for complete search history.

(57) **CLAIM**

The ornamental design for a modular heads-up display system, as shown and described.

**DESCRIPTION**

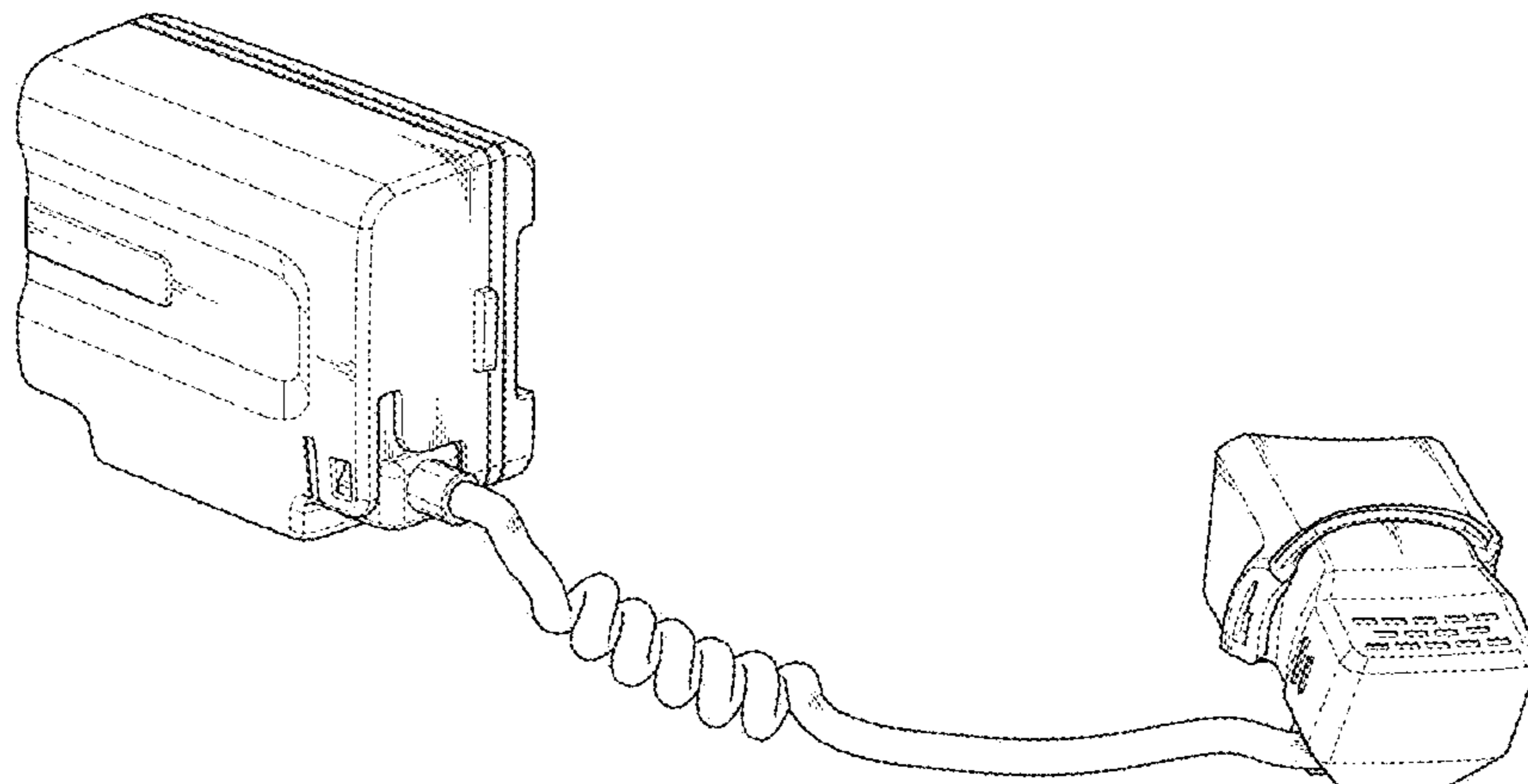
FIG. 1 is a perspective view of the modular heads-up display system showing the design;  
FIG. 2 is a front view thereof;  
FIG. 3 is a rear view thereof;  
FIG. 4 is a right side view thereof;  
FIG. 5 is a left side view thereof;  
FIG. 6 is a top view thereof;  
FIG. 7 is a bottom view thereof;  
FIG. 8 is an exploded view thereof; and,  
FIG. 9 is a perspective view showing the modular heads-up display system coupled to a pair of goggles.  
The goggles and strap clip are shown in broken lines for illustrative purposes only and form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,526,473 A 7/1985 Zahn, III  
5,045,700 A 9/1991 Crowson et al.  
5,331,149 A 7/1994 Spitzer et al.  
5,343,313 A 8/1994 Ferguson  
5,491,510 A 2/1996 Gove  
5,813,990 A 9/1998 Ryll  
6,431,705 B1 8/2002 Linden  
6,483,646 B2 11/2002 Scott et al.  
D537,078 S \* 2/2007 Tanaka et al. .... D14/372  
7,192,137 B2 3/2007 Ishibashi et al.  
D559,250 S \* 1/2008 Pombo ..... D14/372

**1 Claim, 5 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

7,825,996	B2	11/2010	Yamada et al.	
7,952,059	B2	5/2011	Vitale et al.	
D659,136	S *	5/2012	Matsumoto .....	D14/372
D659,137	S *	5/2012	Matsumoto .....	D14/372
D659,741	S *	5/2012	Heinrich et al. ....	D16/309
D660,341	S *	5/2012	Olsson et al. ....	D16/300
8,203,502	B1	6/2012	Chi et al.	
D664,185	S *	7/2012	Heinrich et al. ....	D16/309
8,212,859	B2	7/2012	Tang et al.	
8,235,529	B1	8/2012	Raffle et al.	
D682,267	S *	5/2013	Mase .....	D14/372
D682,268	S *	5/2013	Ricks et al. ....	D14/372
8,467,133	B2 *	6/2013	Miller .....	359/630
2005/0116882	A1	6/2005	Yamazaki et al.	

2010/0060551	A1	3/2010	Sugiyama et al.
2010/0097580	A1	4/2010	Yamamoto et al.
2010/0103077	A1	4/2010	Sugiyama et al.
2011/0018903	A1	1/2011	Lapstun et al.
2011/0211260	A1	9/2011	Yamamoto
2012/0310391	A1	12/2012	Sanders

OTHER PUBLICATIONS

Kopin, "Kopin Golden-i Head-Mounted Display Delivers True Hands-free Mobility", Microsoft, May 2009, pp. 1-2.

Goddard, Louis, "Olympus announces Project Glass-style wearable display prototype", The Verge, Jul. 5, 2012.

Purcher, Jack, "The Next Step in Apple's Glass Project Revealed!", Patentably Apple, Dec. 7, 2012.

\* cited by examiner

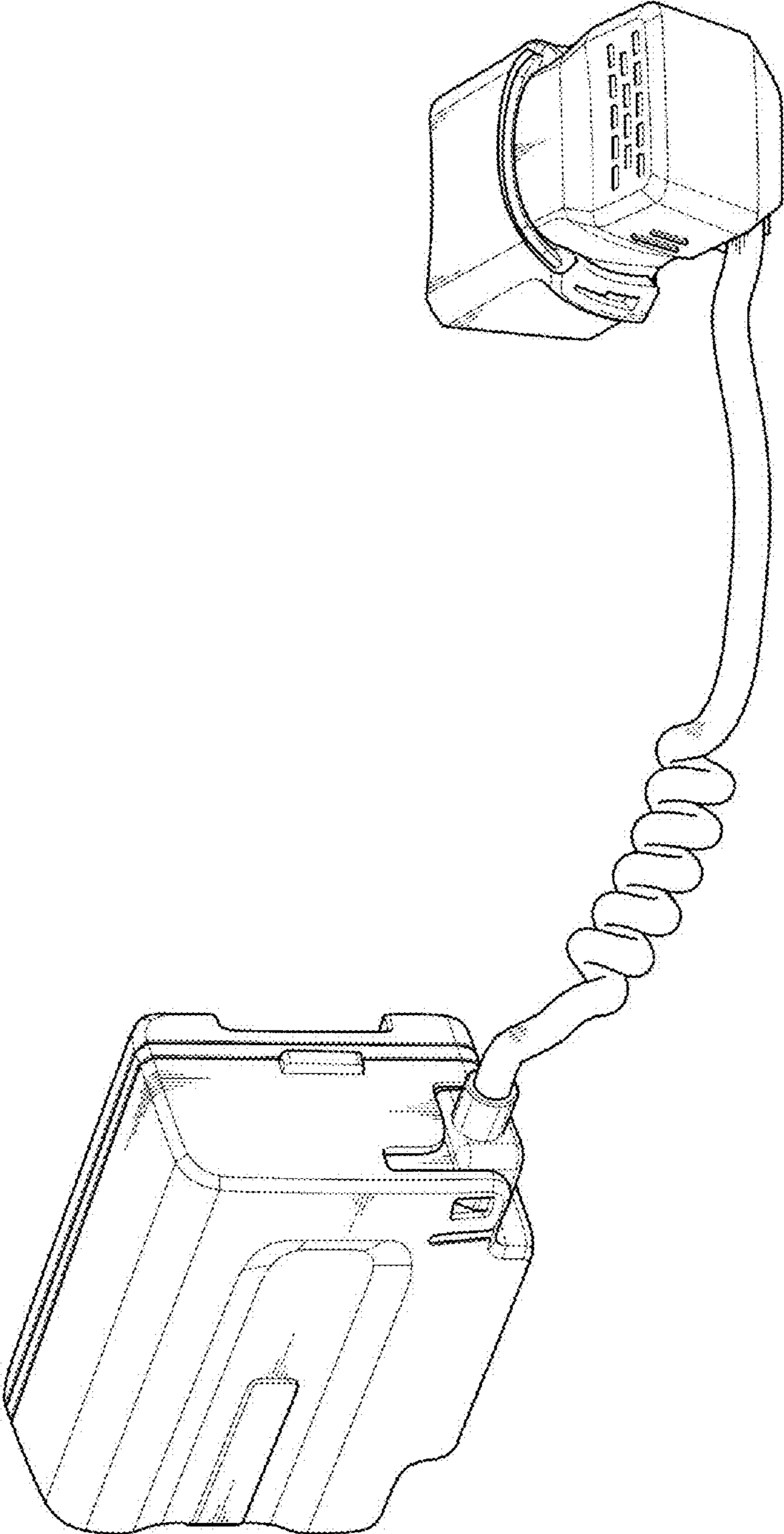


FIG. 1

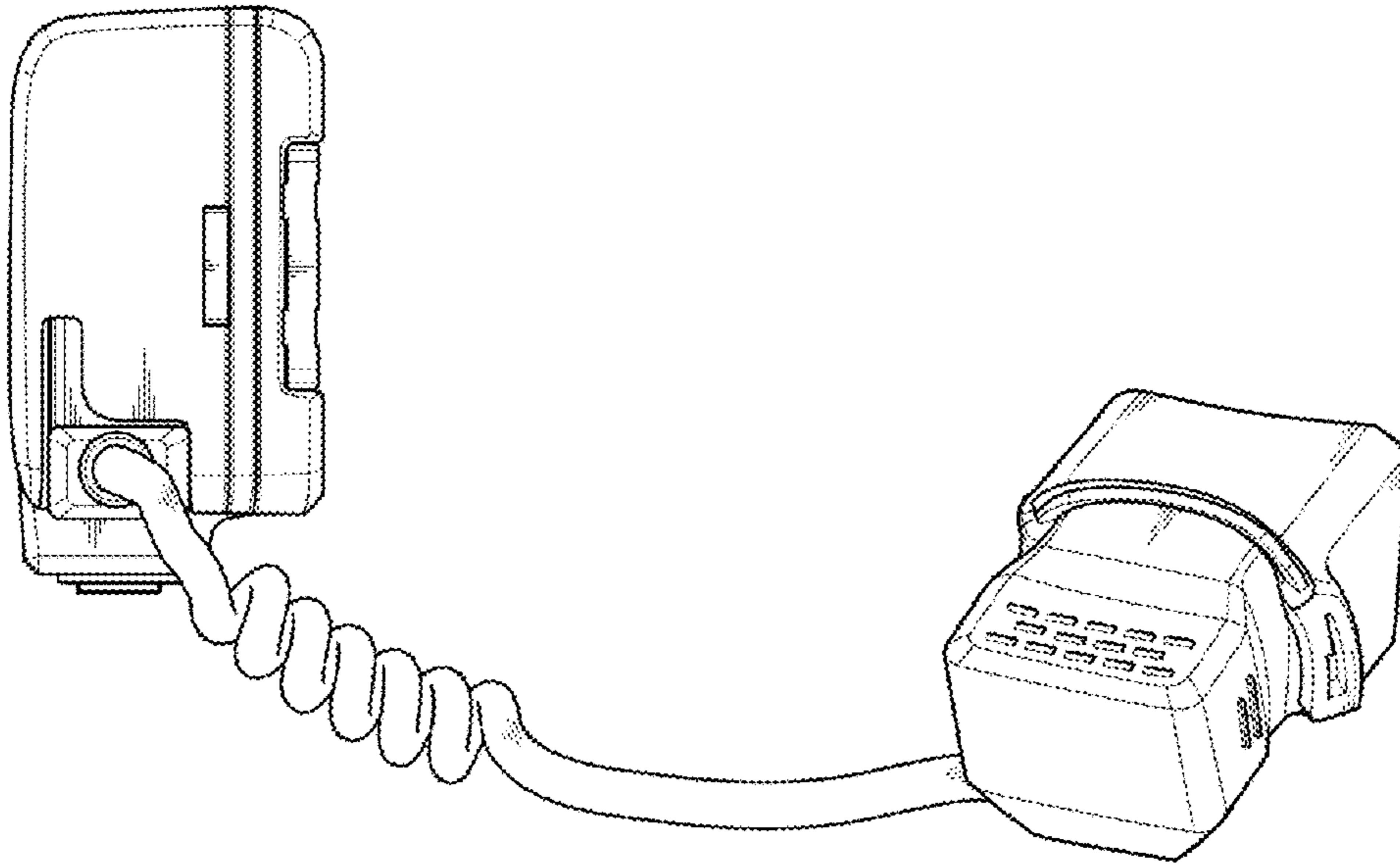


FIG. 2

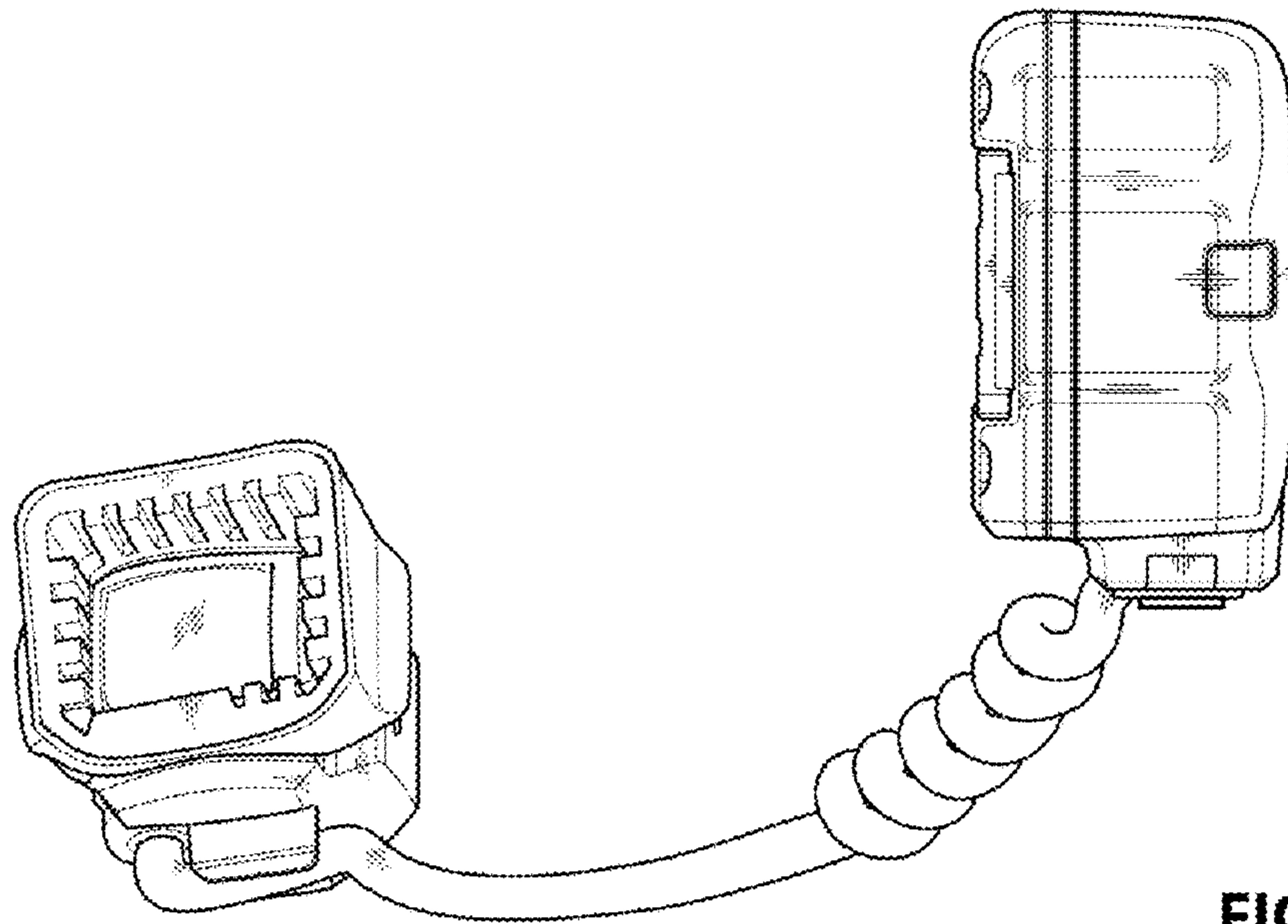


FIG. 3

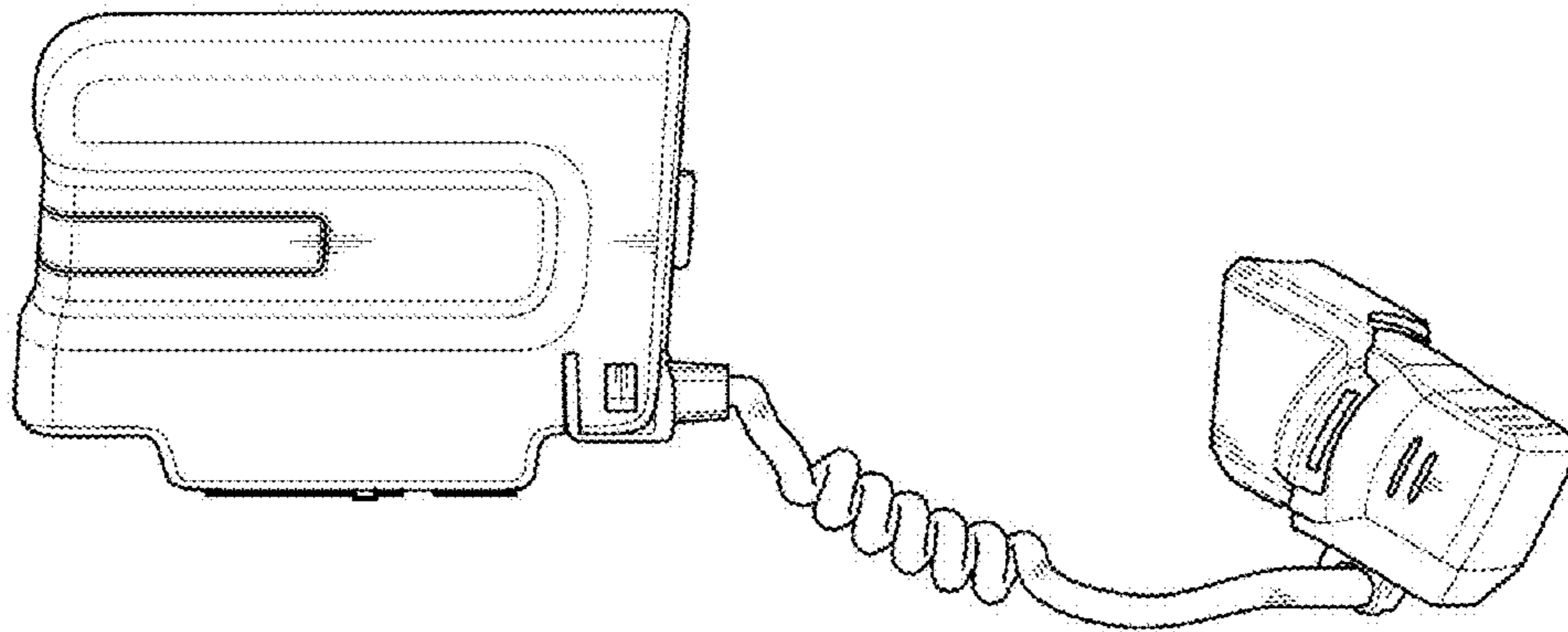


FIG. 4

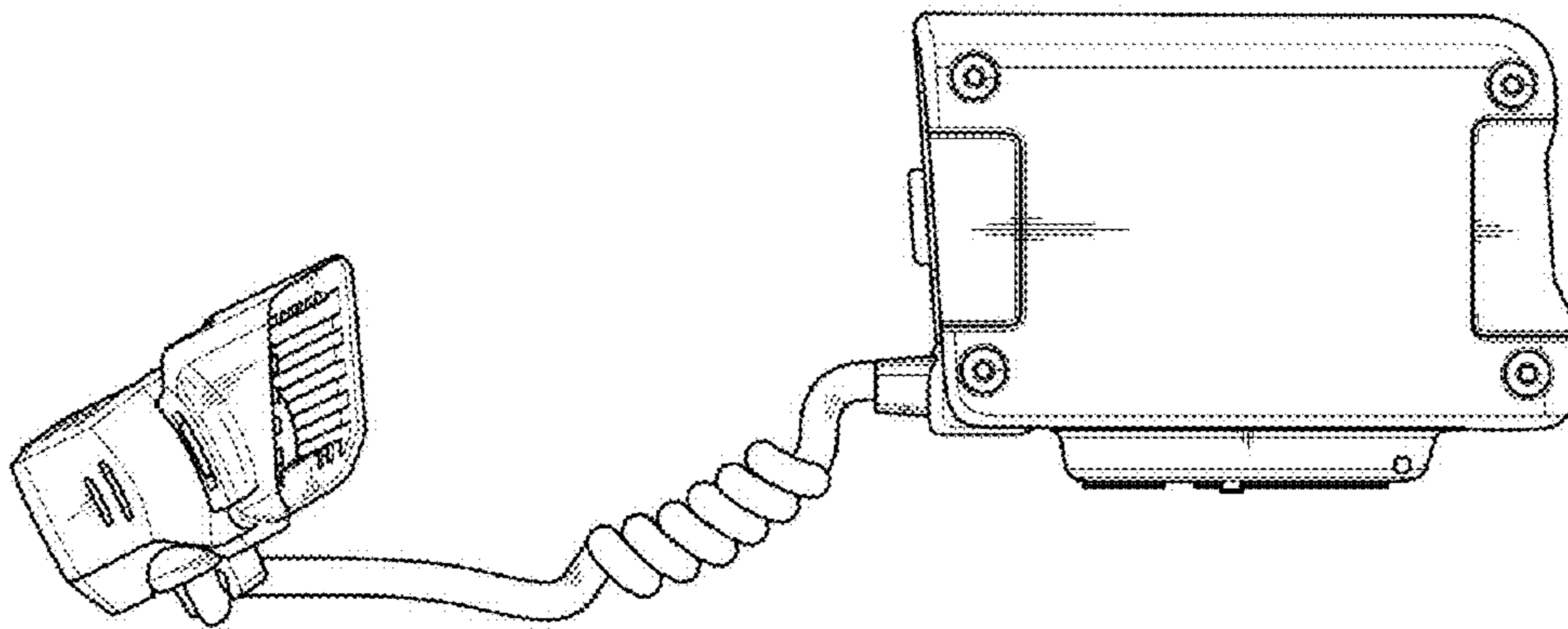


FIG. 5

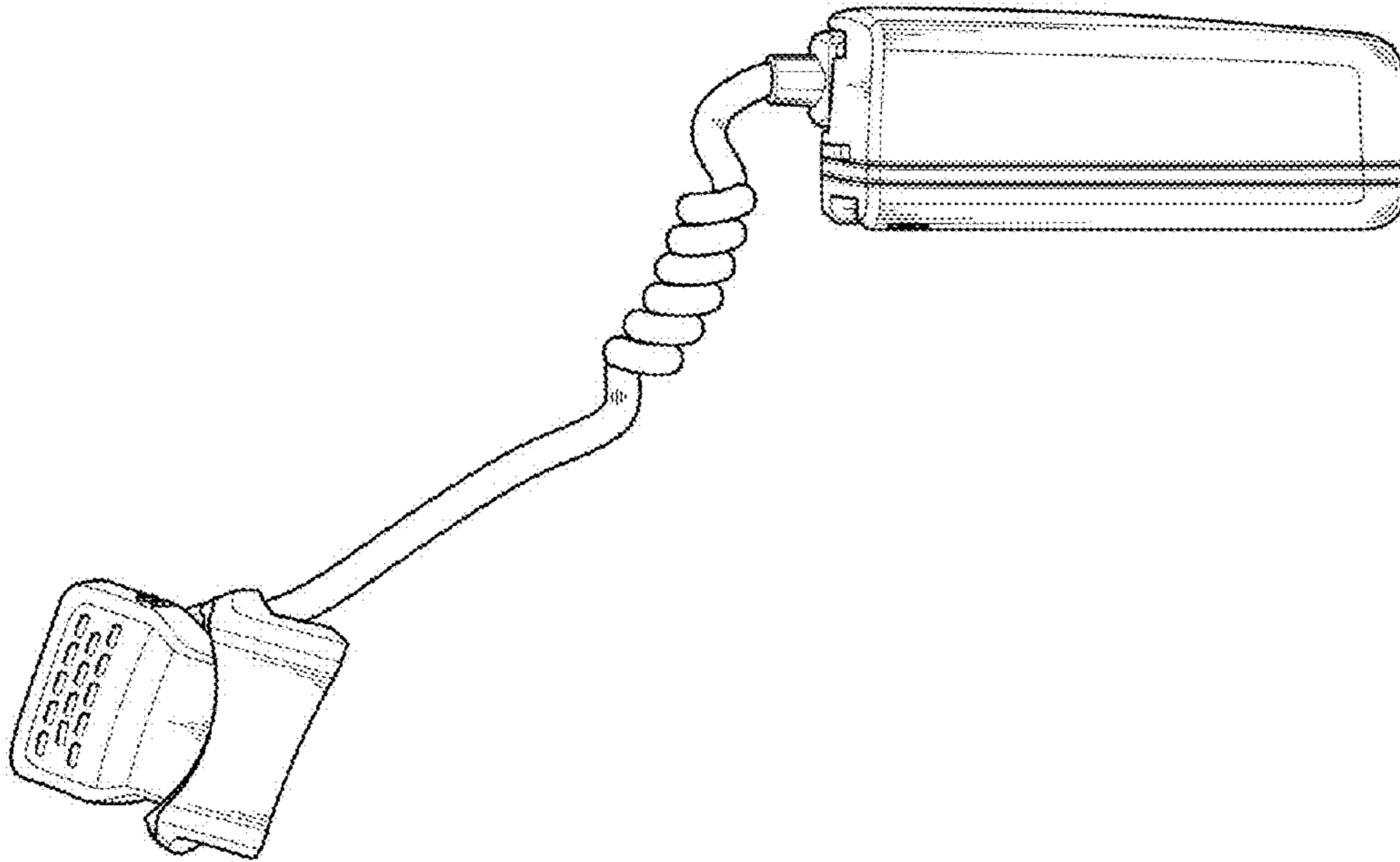


FIG. 6

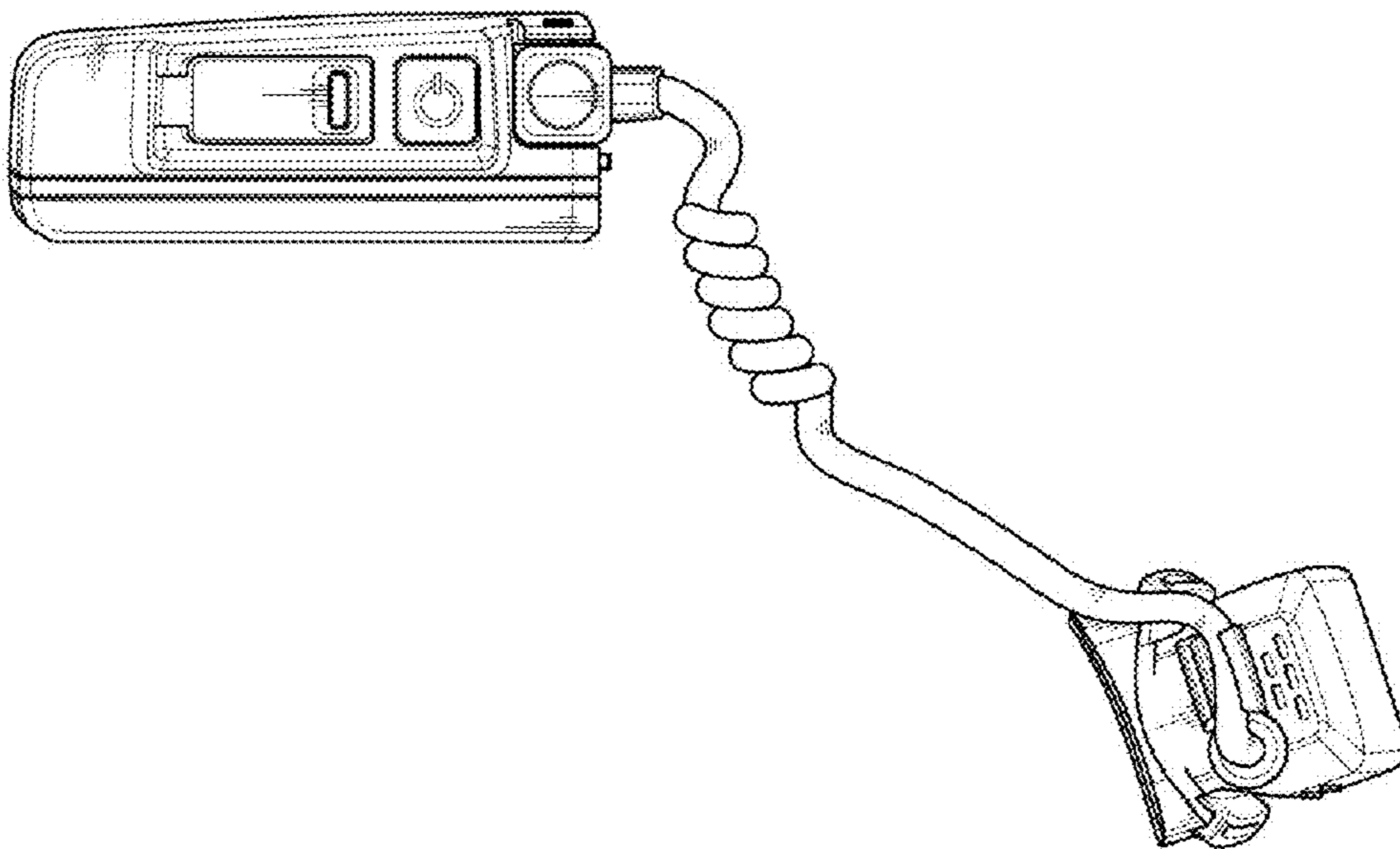


FIG. 7

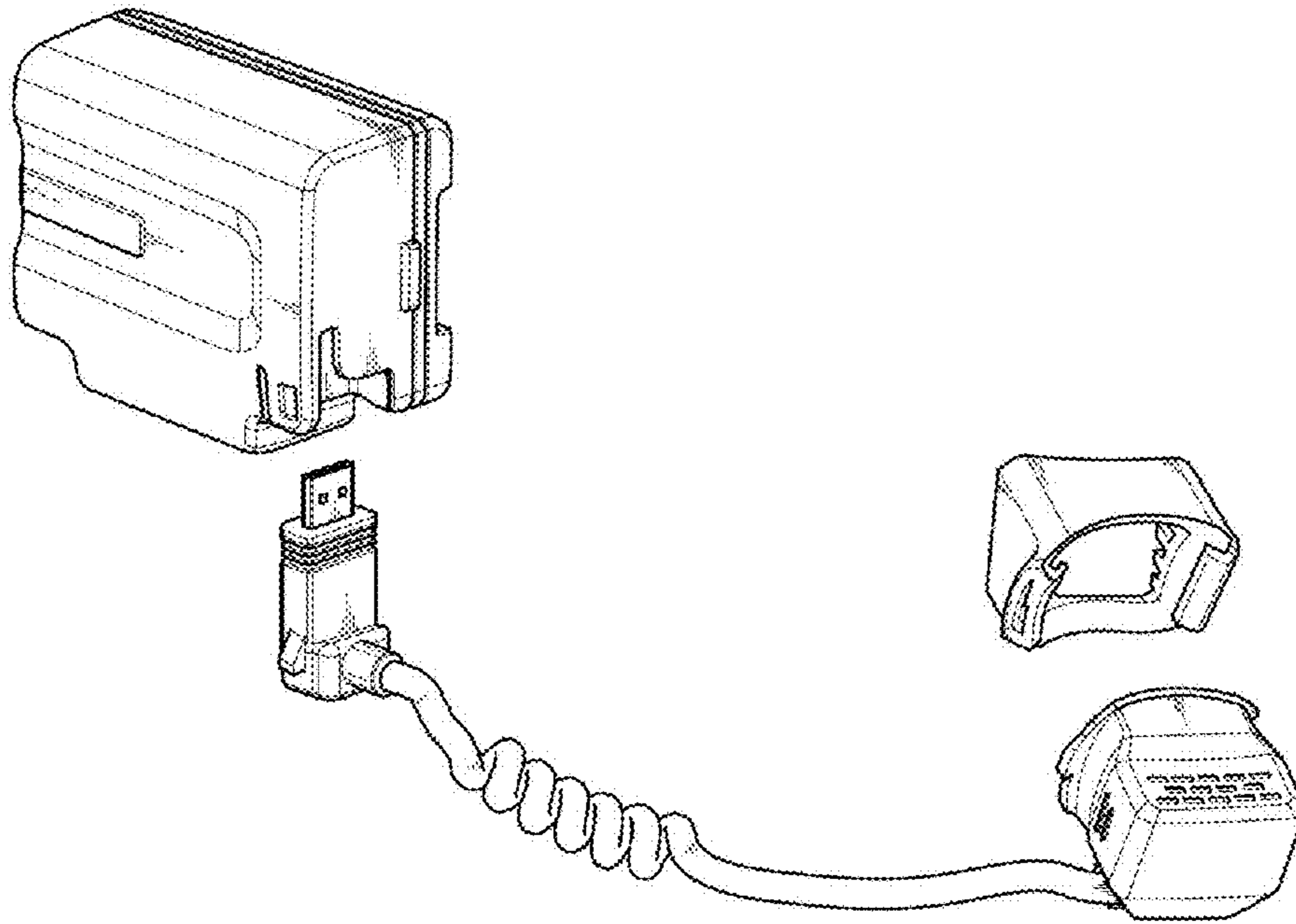


FIG. 8

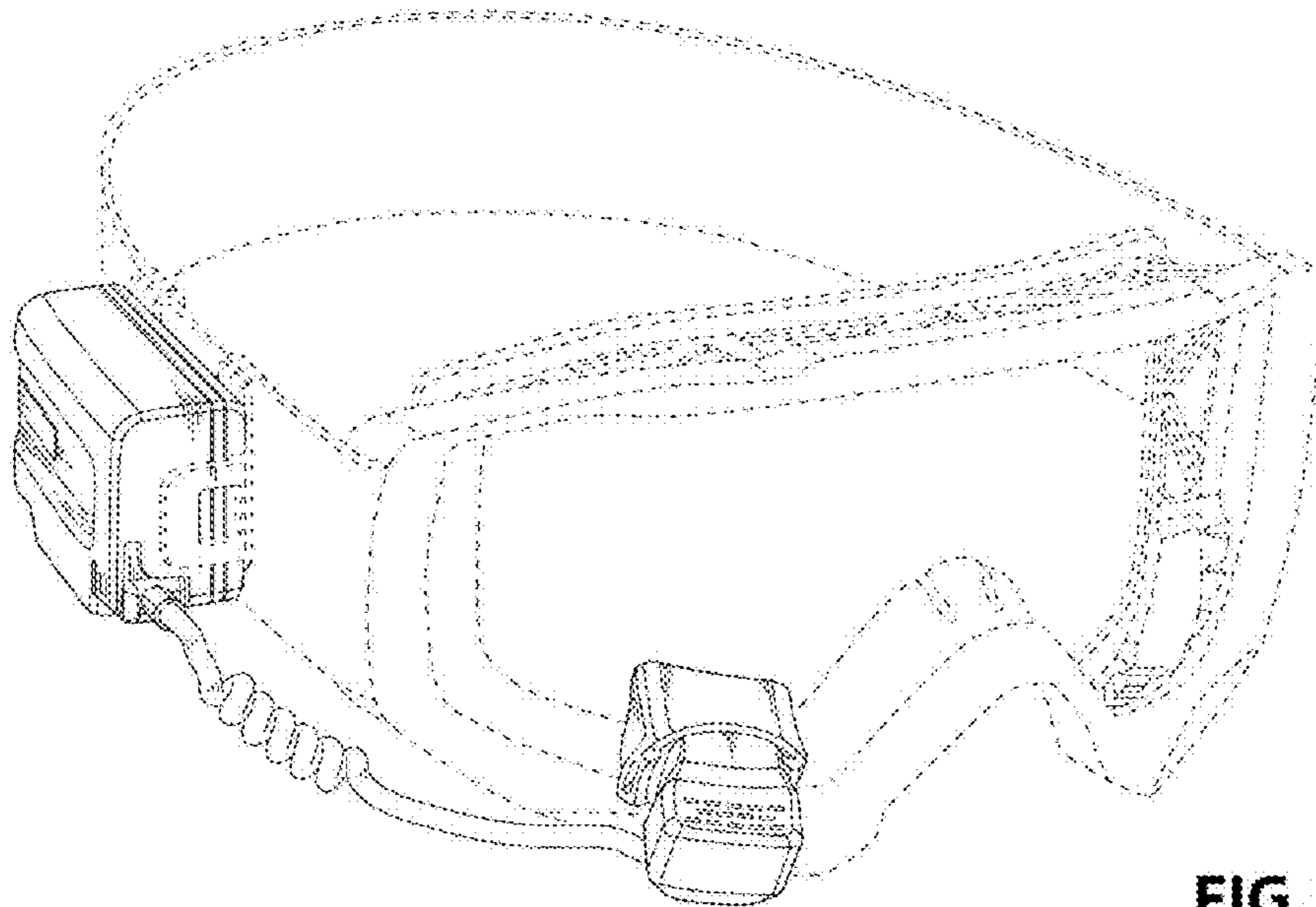


FIG. 9