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**Gentle et al.**

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(54) **CONTROLLER**

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

(21) Appl. No.: **29/502,763**

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

(52) **U.S. Cl.**  
USPC ..... **D14/412**; D15/28; D12/179

(58) **Field of Classification Search**  
USPC ..... D15/17, 28; D12/174, 179;  
D14/412-416  
CPC ..... E02F 3/84; G05G 9/00-9/10; G05G 3/00  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- D320,589 S \* 10/1991 Kelley et al. .... D12/179
- D362,330 S \* 9/1995 Avitan et al. .... D34/35
- D365,576 S \* 12/1995 Butkovich et al. .... D15/29
- D366,910 S \* 2/1996 Hsieh ..... D14/412
- 5,805,256 A \* 9/1998 Miller ..... 348/734
- D418,097 S \* 12/1999 Leschke et al. .... D12/179
- D419,570 S \* 1/2000 Blondeel et al. .... D15/29
- D450,702 S \* 11/2001 Sagawa et al. .... D14/412
- D454,569 S \* 3/2002 Osborn et al. .... D14/412
- D463,457 S \* 9/2002 Nagatsuka ..... D15/28
- 6,571,902 B2 \* 6/2003 Heyne et al. .... 180/321
- D498,188 S \* 11/2004 Ligneau ..... D12/179
- D498,189 S \* 11/2004 Ligneau ..... D12/179

- D499,121 S \* 11/2004 Masalin ..... D15/28
- D531,942 S \* 11/2006 Chanteloup ..... D12/179
- D537,393 S \* 2/2007 Chanteloup ..... D12/179
- D537,394 S \* 2/2007 Chanteloup ..... D12/179
- D559,749 S \* 1/2008 Barbieri ..... D12/179
- 7,497,298 B2 \* 3/2009 Shearer et al. .... 180/333
- D590,848 S \* 4/2009 Umeda et al. .... D15/28

(Continued)

**FOREIGN PATENT DOCUMENTS**

EP 1818752 B1 12/2006

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(57) **CLAIM**

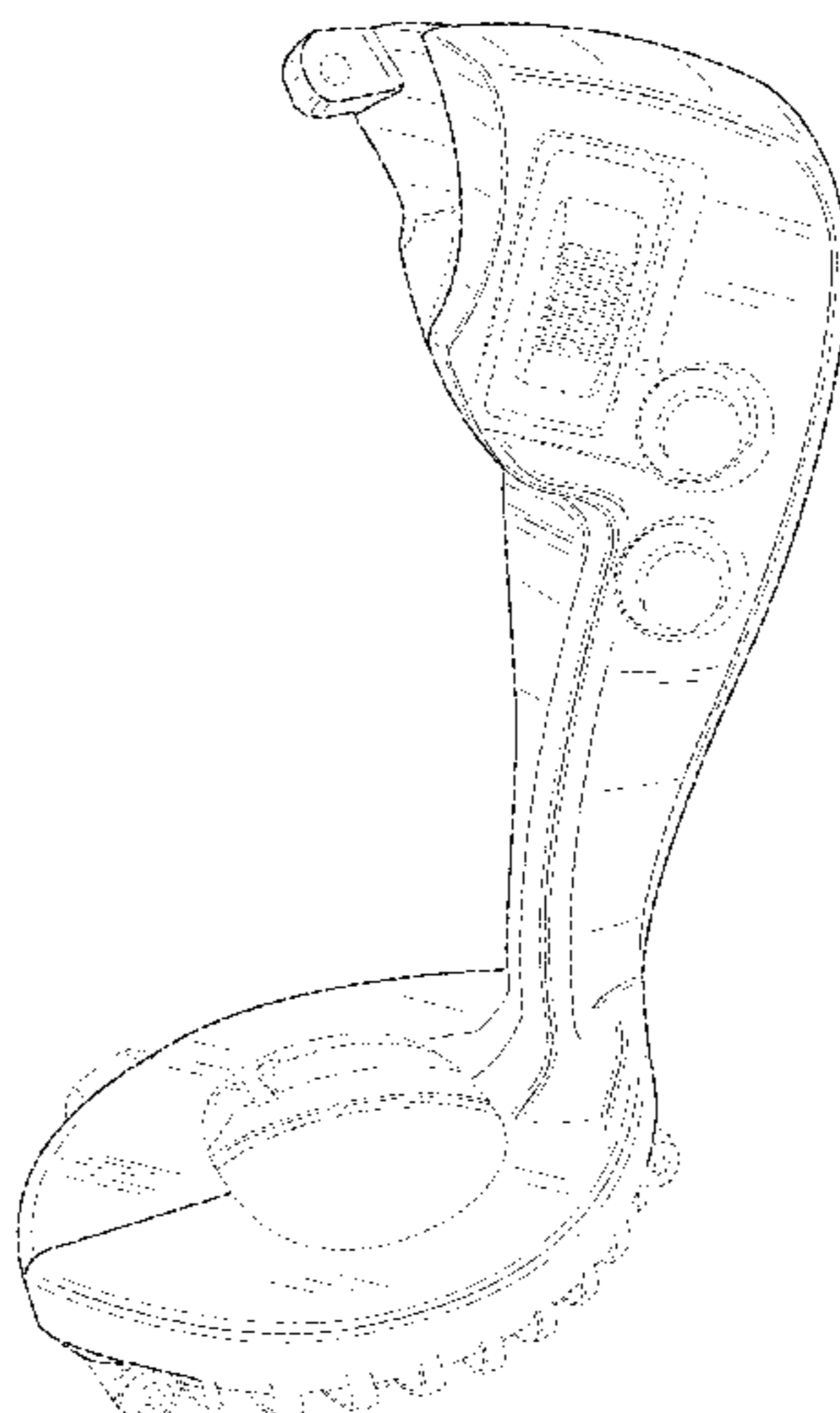
The ornamental design for a controller, as shown and described.

**DESCRIPTION**

FIG. 1 is a front, left perspective view of a first embodiment of a controller showing our new design;  
 FIG. 2 is rear, left perspective view thereof;  
 FIG. 3 is a left side view thereof;  
 FIG. 4 is a front elevation view thereof;  
 FIG. 5 is a rear elevation view thereof;  
 FIG. 6 is a right side view thereof;  
 FIG. 7 is a top plan view thereof;  
 FIG. 8 is a bottom view thereof;  
 FIG. 9 is a front, left perspective view of a second embodiment of a controller showing our new design;  
 FIG. 10 is rear, right perspective view thereof;  
 FIG. 11 is a left side view thereof;  
 FIG. 12 is a front elevation view thereof;  
 FIG. 13 is a rear elevation view thereof;  
 FIG. 14 is a right side view thereof;  
 FIG. 15 is a top plan view thereof; and,  
 FIG. 16 is a bottom view thereof.

The broken lines shown in the drawings illustrate portions of the controller that form no part of the claimed design.

**1 Claim, 16 Drawing Sheets**



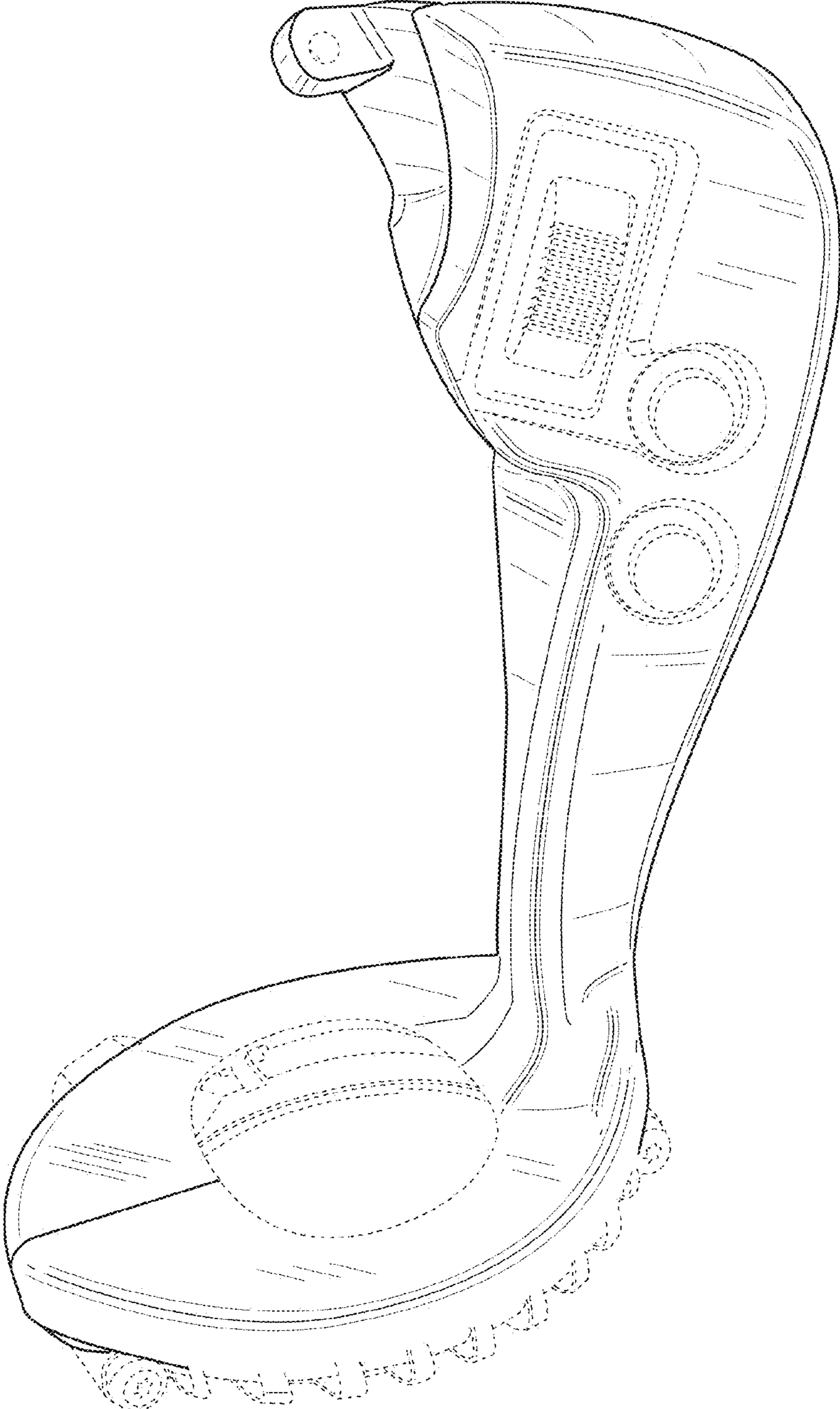
(56)

**References Cited**

U.S. PATENT DOCUMENTS

D595,744 S *	7/2009	Umeda et al. ....	D15/28	D635,155 S *	3/2011	Blind .....	D15/28
D606,100 S *	12/2009	Kobayashi et al. ....	D15/28	8,276,476 B2 *	10/2012	Diccion .....	74/471 XY
D606,566 S *	12/2009	Kobayashi et al. ....	D15/28	D671,565 S *	11/2012	Kinoshita et al. ....	D15/28
D606,567 S *	12/2009	Kobayashi et al. ....	D15/28	D686,622 S *	7/2013	Rey et al. ....	D14/412
7,729,835 B2 *	6/2010	Morris et al. ....	701/50	D704,189 S *	5/2014	Rey et al. ....	D14/412
D633,111 S *	2/2011	Muraoka et al. ....	D15/28	2002/0166267 A1 *	11/2002	McGugan .....	37/348
				2009/0090208 A1	4/2009	Diccion	
				2015/0149054 A1 *	5/2015	Gentle et al. ....	701/67

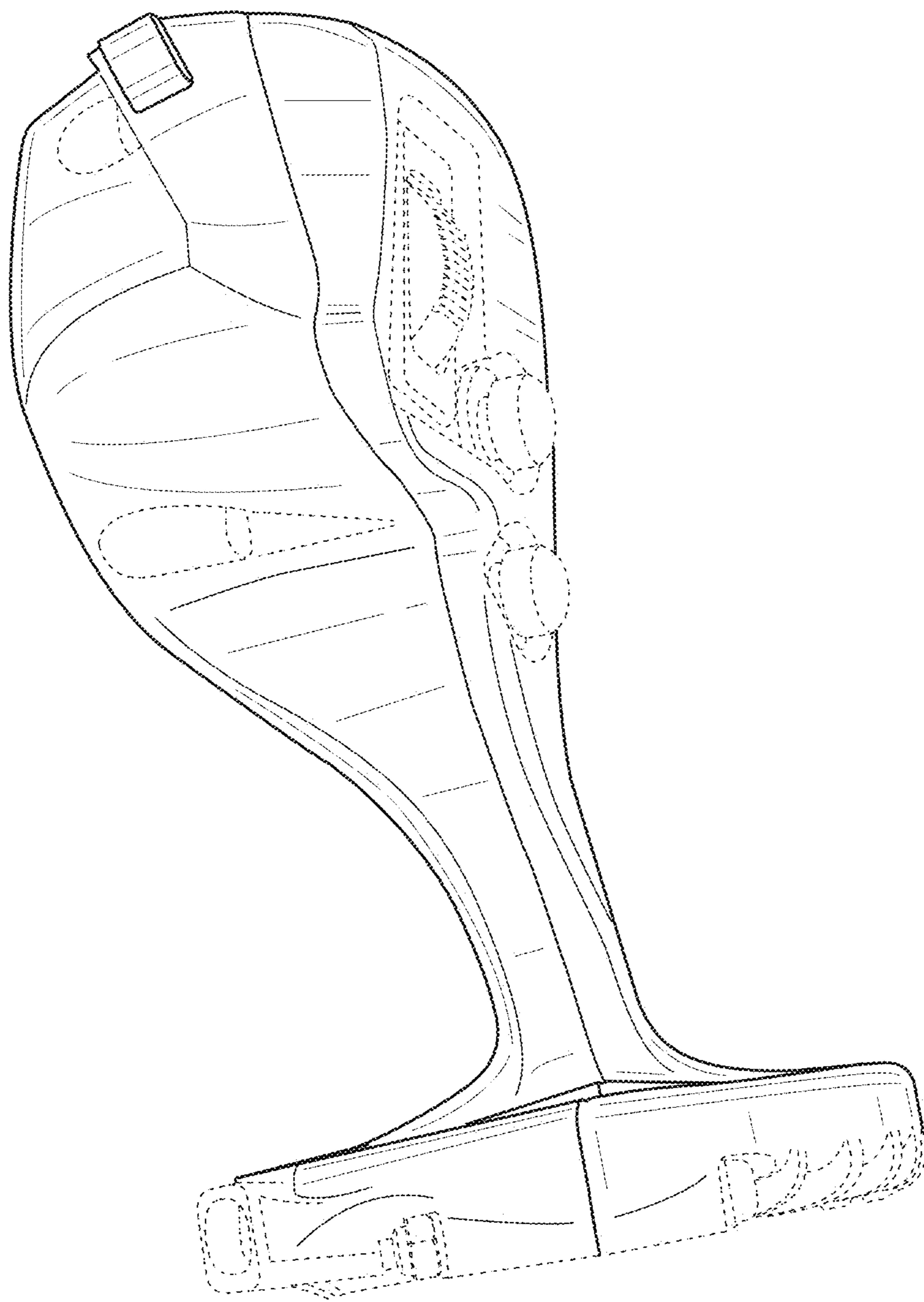
\* cited by examiner



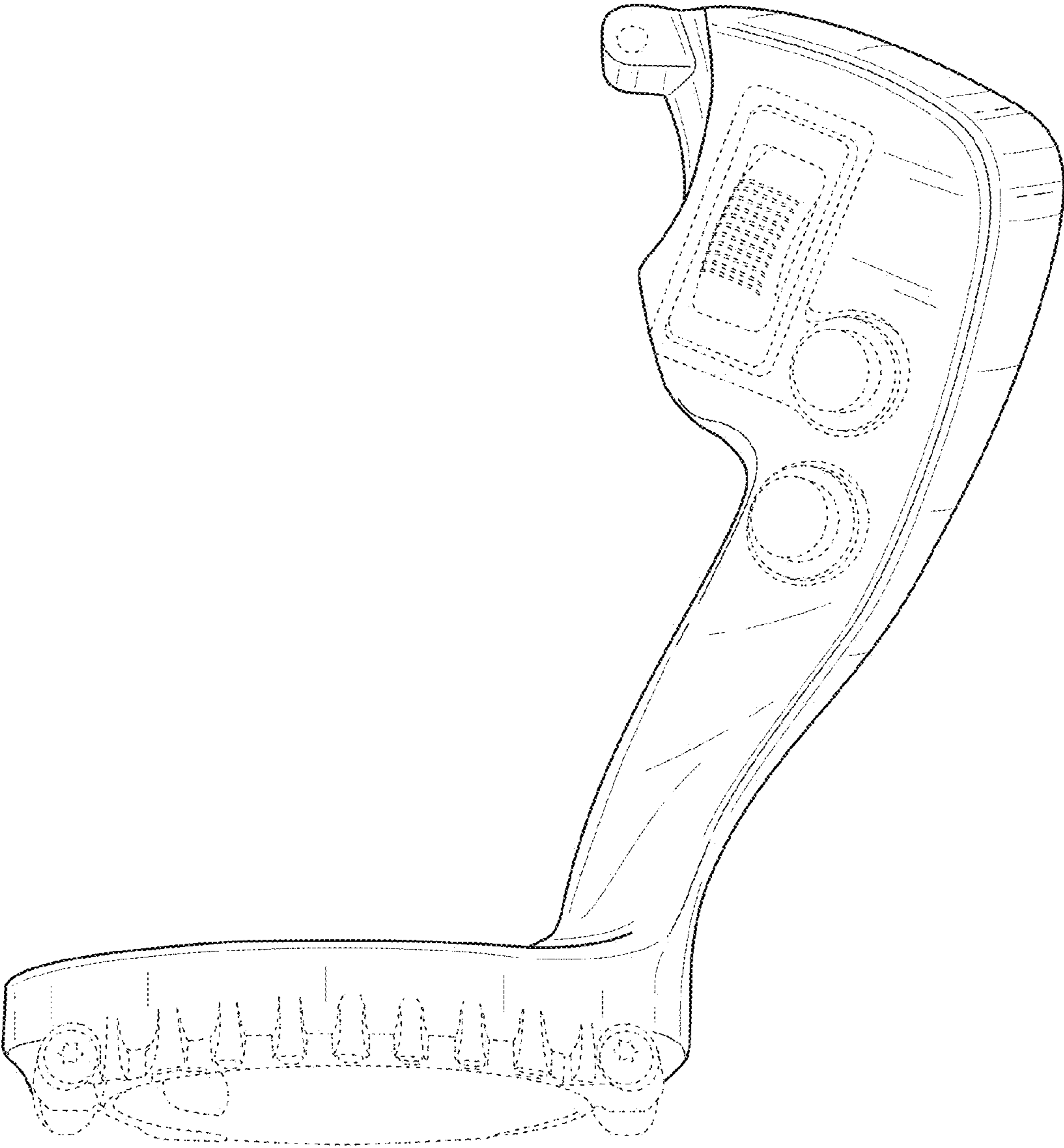
**FIG. 1**



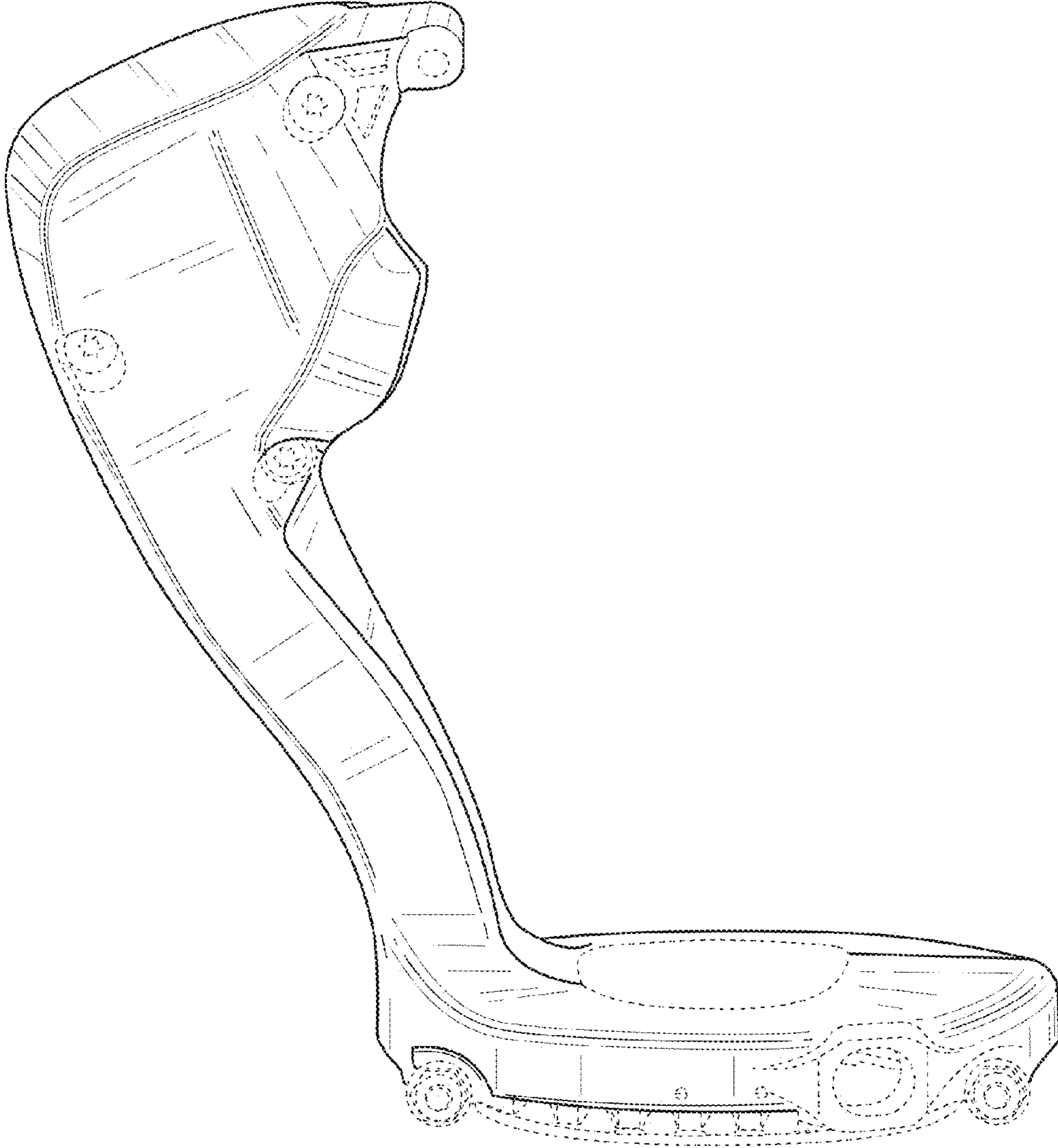
**FIG. 2**



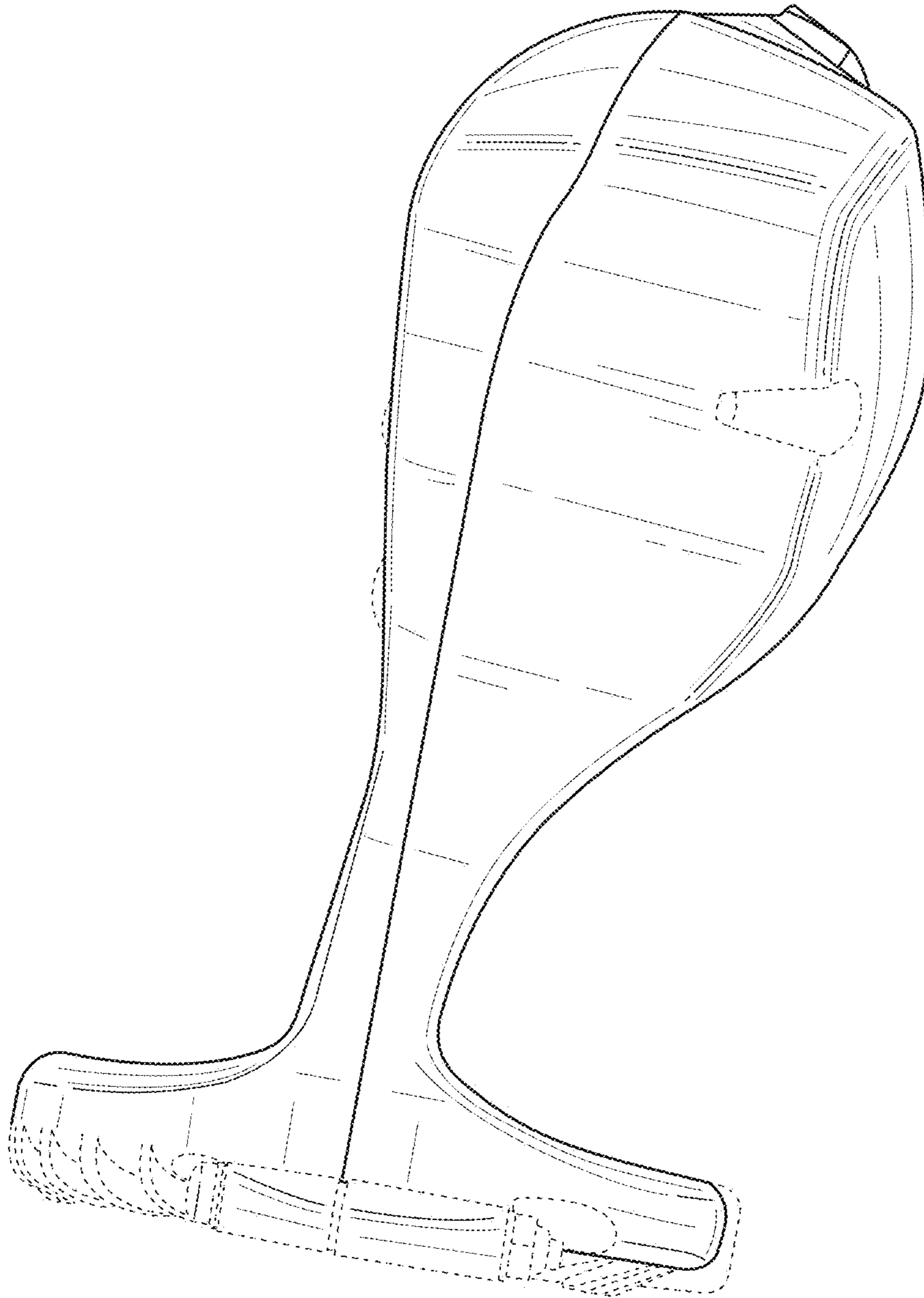
**FIG. 3**



**FIG. 4**

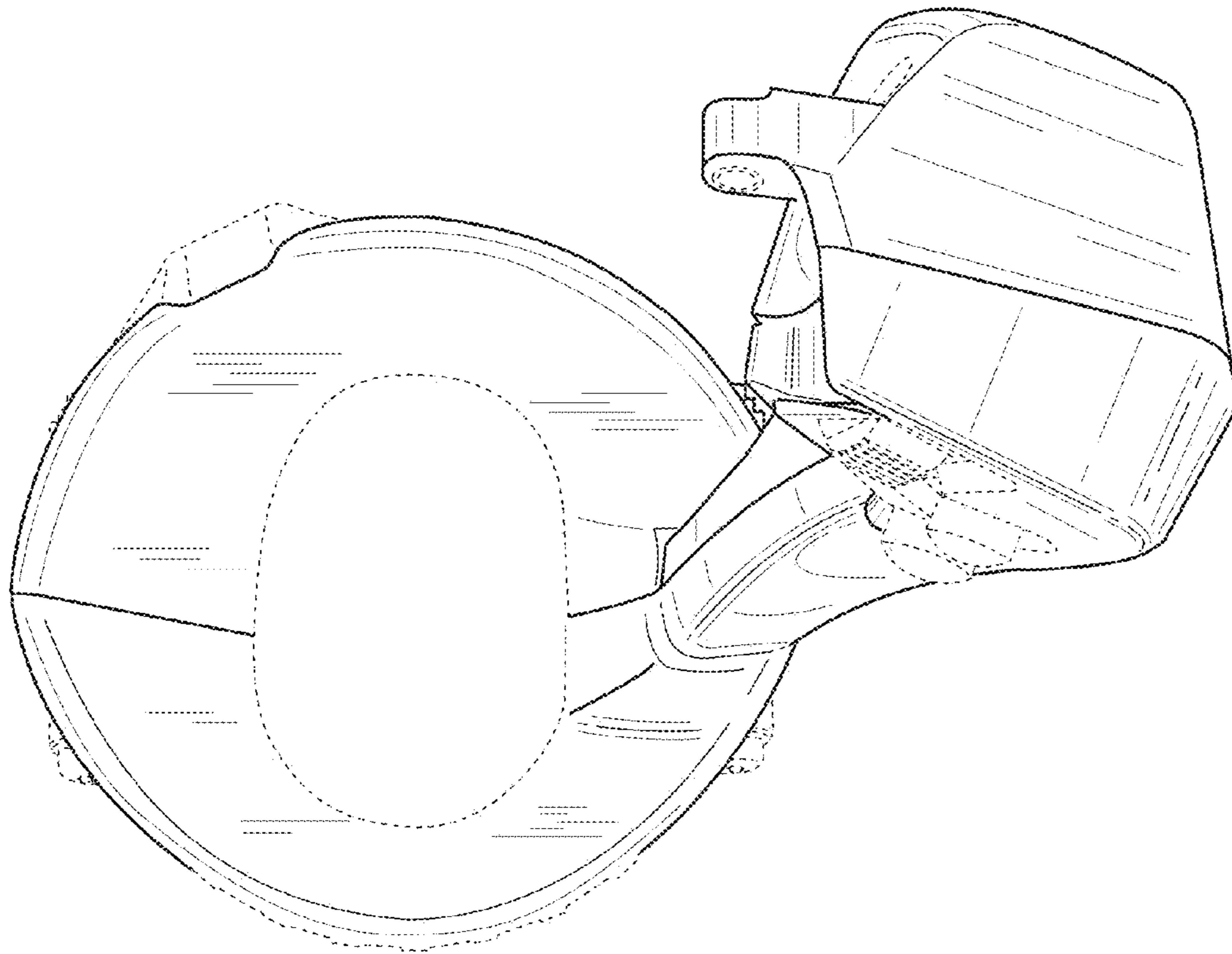


**FIG. 5**

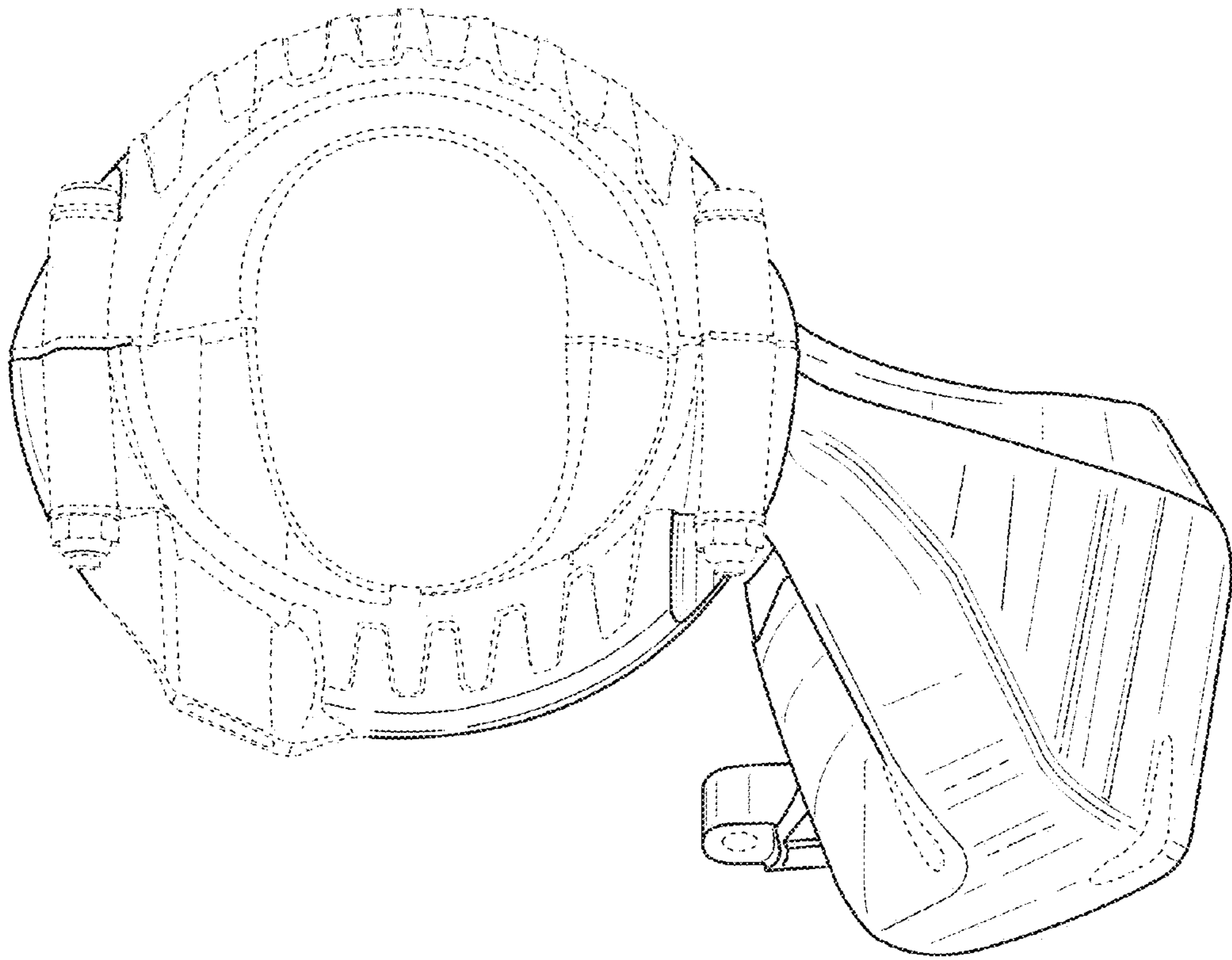


**FIG. 6**





**FIG. 7**



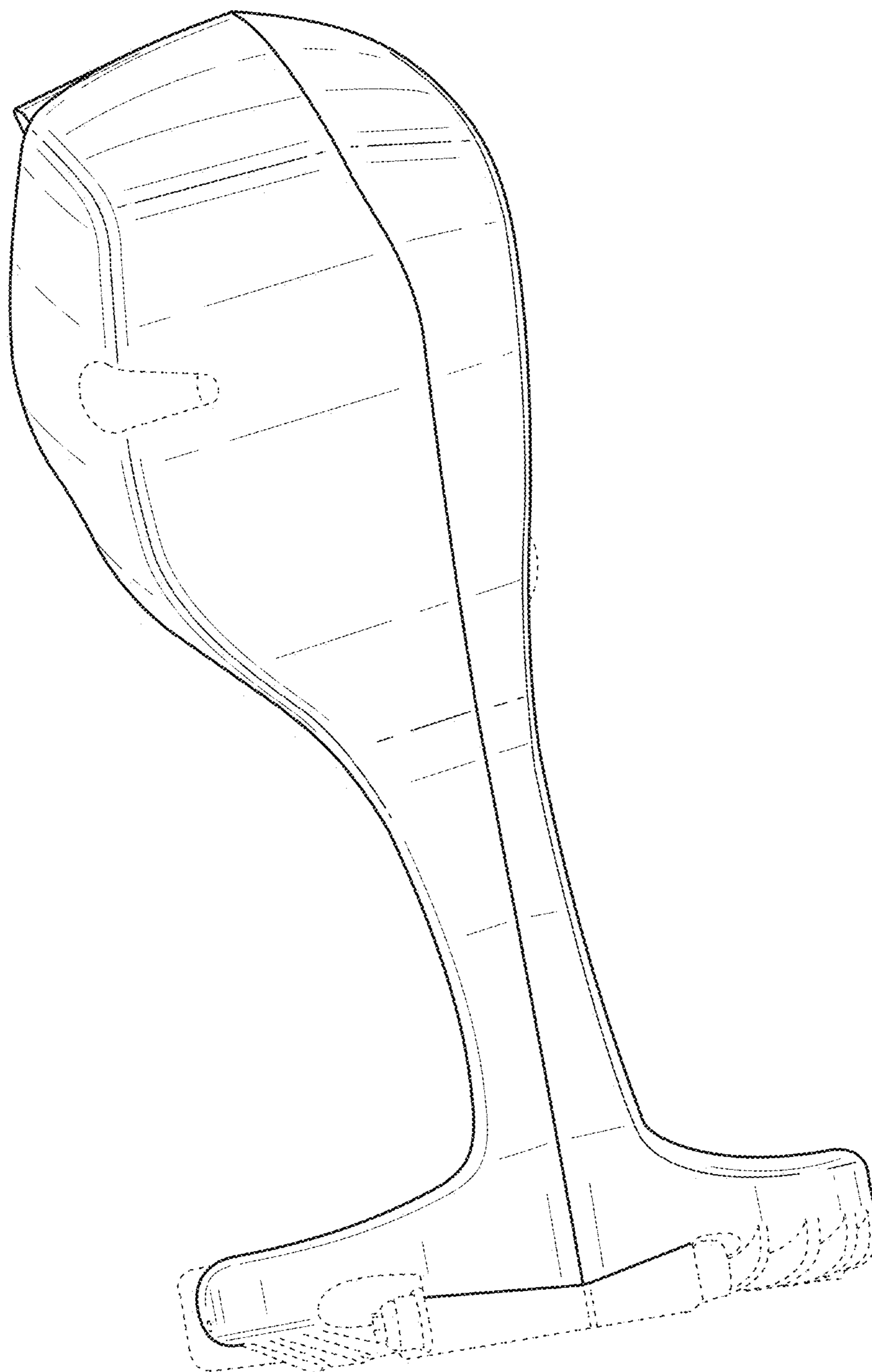
**FIG. 8**



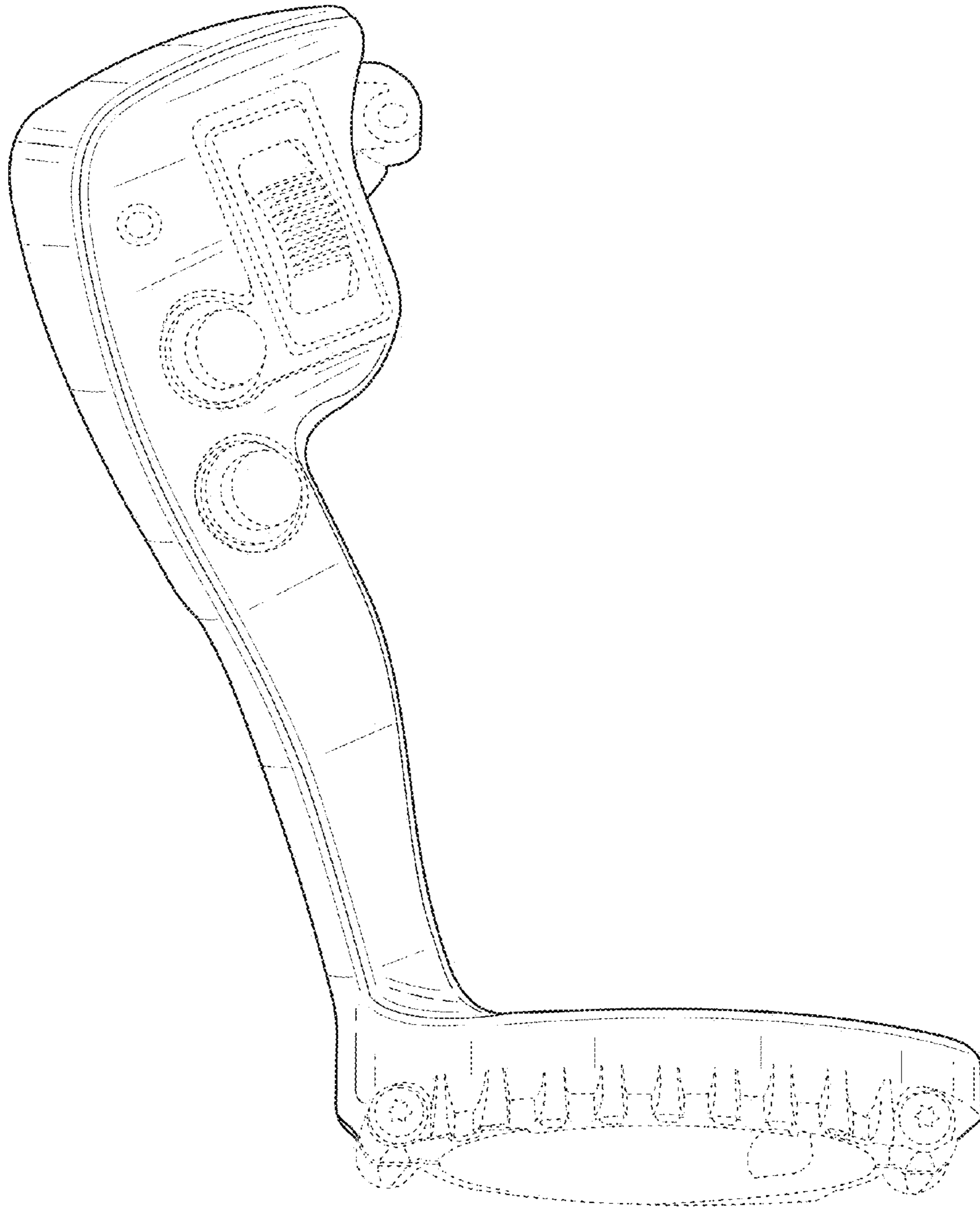
**FIG. 9**



**FIG. 10**



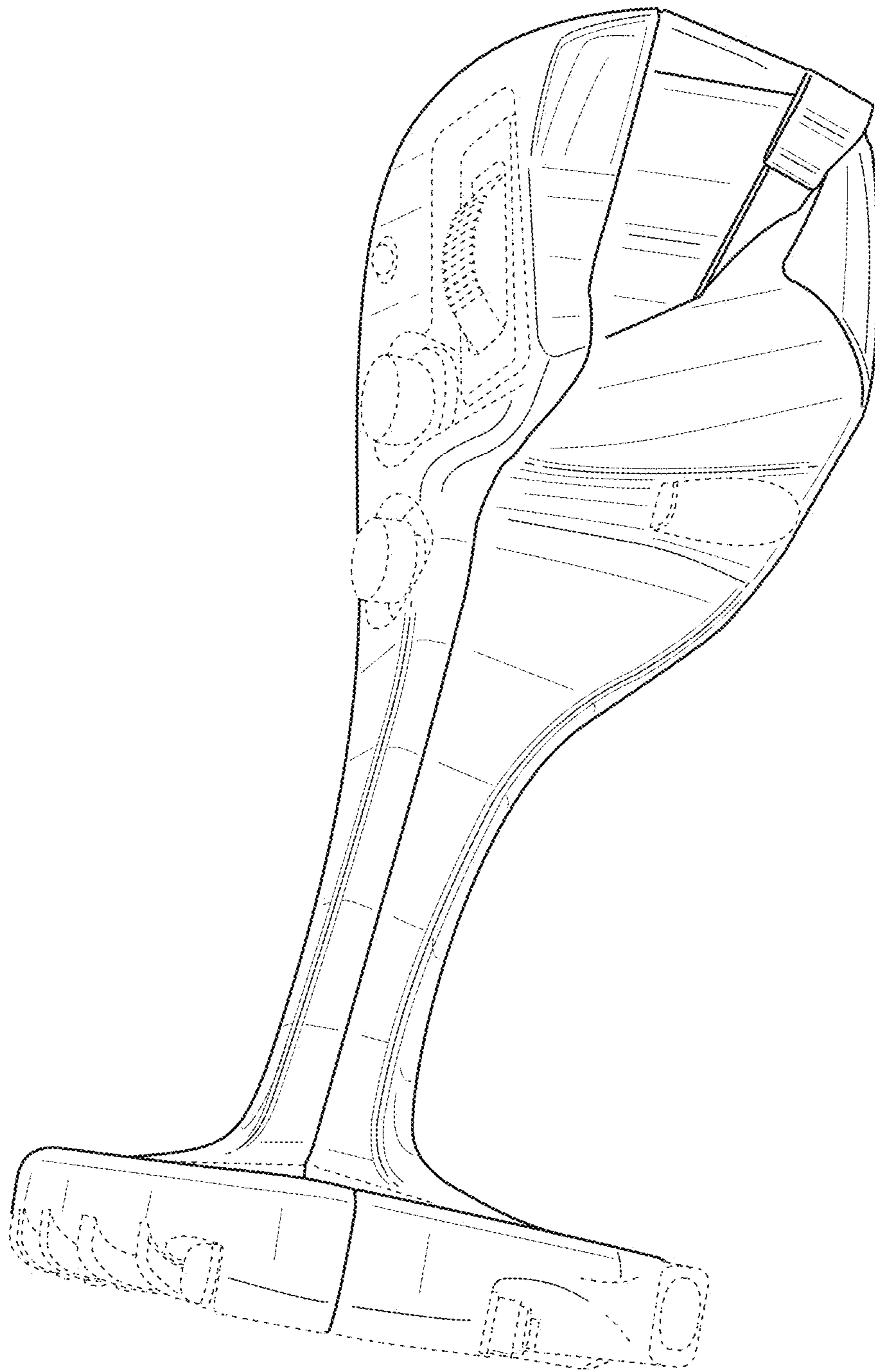
**FIG. 11**



**FIG. 12**

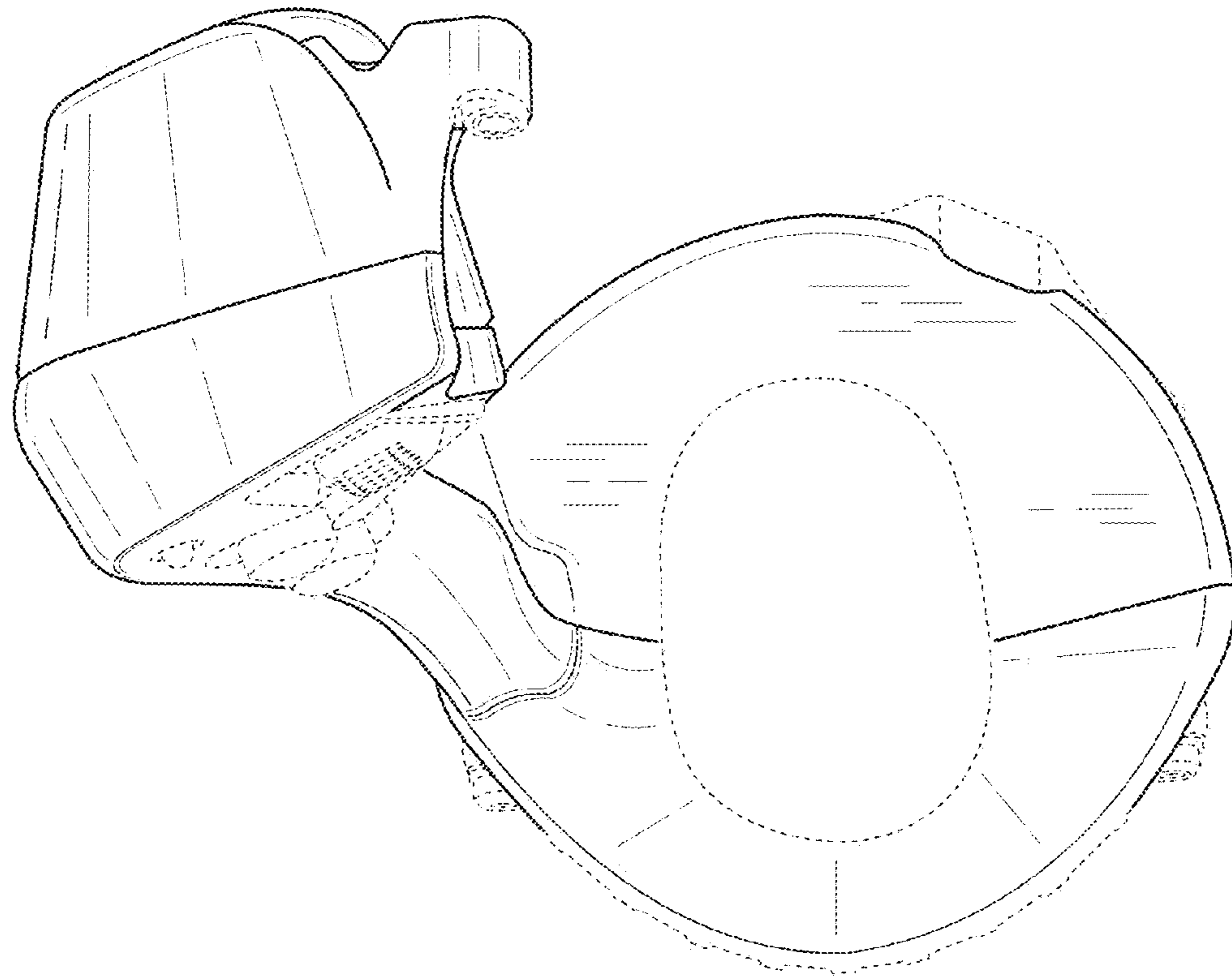


**FIG. 13**

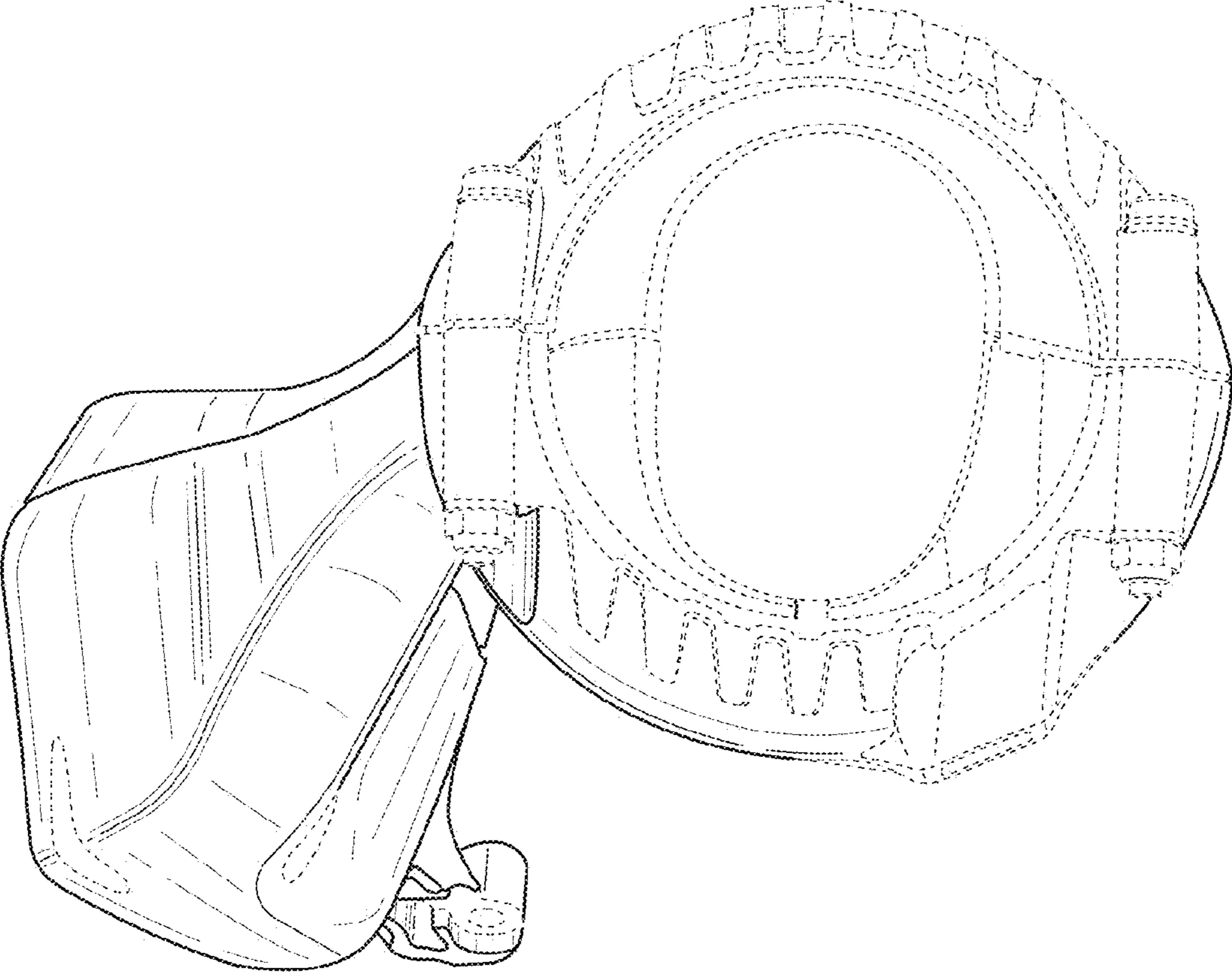


**FIG. 14**





**FIG. 15**



**FIG. 16**