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(12) **United States Design Patent** (10) **Patent No.:** **US D951,482 S**  
**Salomon et al.** (45) **Date of Patent:** **\*\* May 10, 2022**

(54) **CARTRIDGE DEVICE**

FOREIGN PATENT DOCUMENTS

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CN 101098956 5/2012  
JP 2007-178328 7/2007

(Continued)

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OTHER PUBLICATIONS

Official Action dated Nov. 26, 2019 From the US Patent and Trademark Office Re. U.S. Appl. No. 29/662,120. (13 pages).

(Continued)

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(73) Assignee: **MeMed Diagnostics Ltd.**, Tirat  
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(57) **CLAIM**

The ornamental design for a cartridge device, as shown and described.

(\*\*) Term: **15 Years**

**DESCRIPTION**

(21) Appl. No.: **29/662,119**

This invention was made with government support under contract number HDTRA1-17-C-0011 awarded by the Defense Threat Reduction Agency and grant number W81XWH-17-1-0694 awarded by the U.S. Army Medical Research Acquisition Activity. The government has certain rights in the invention.

(22) Filed: **Sep. 2, 2018**

(51) **LOC (13) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/226**

(58) **Field of Classification Search**  
USPC ..... D24/216, 223–224, 231–232, 107, 226,  
D24/229, 230; D10/81  
CPC ..... G01N 33/6803; A61B 17/32  
See application file for complete search history.

FIG. 1 is a top perspective view of a cartridge device, showing our new design;  
FIG. 2 is a top view thereof;  
FIG. 3 is a left side view thereof;  
FIG. 4 is a front view thereof;  
FIG. 5 is a right side view thereof;  
FIG. 6 is a rear view thereof;  
FIG. 7 is a bottom view thereof;  
FIG. 8 is a bottom perspective view thereof;  
FIG. 9 is a top perspective view thereof in a partially folded position; and,  
FIG. 10 is a bottom perspective view thereof in a partially folded position.  
The broken lines depict portions of the cartridge device that form no part of the claimed design.

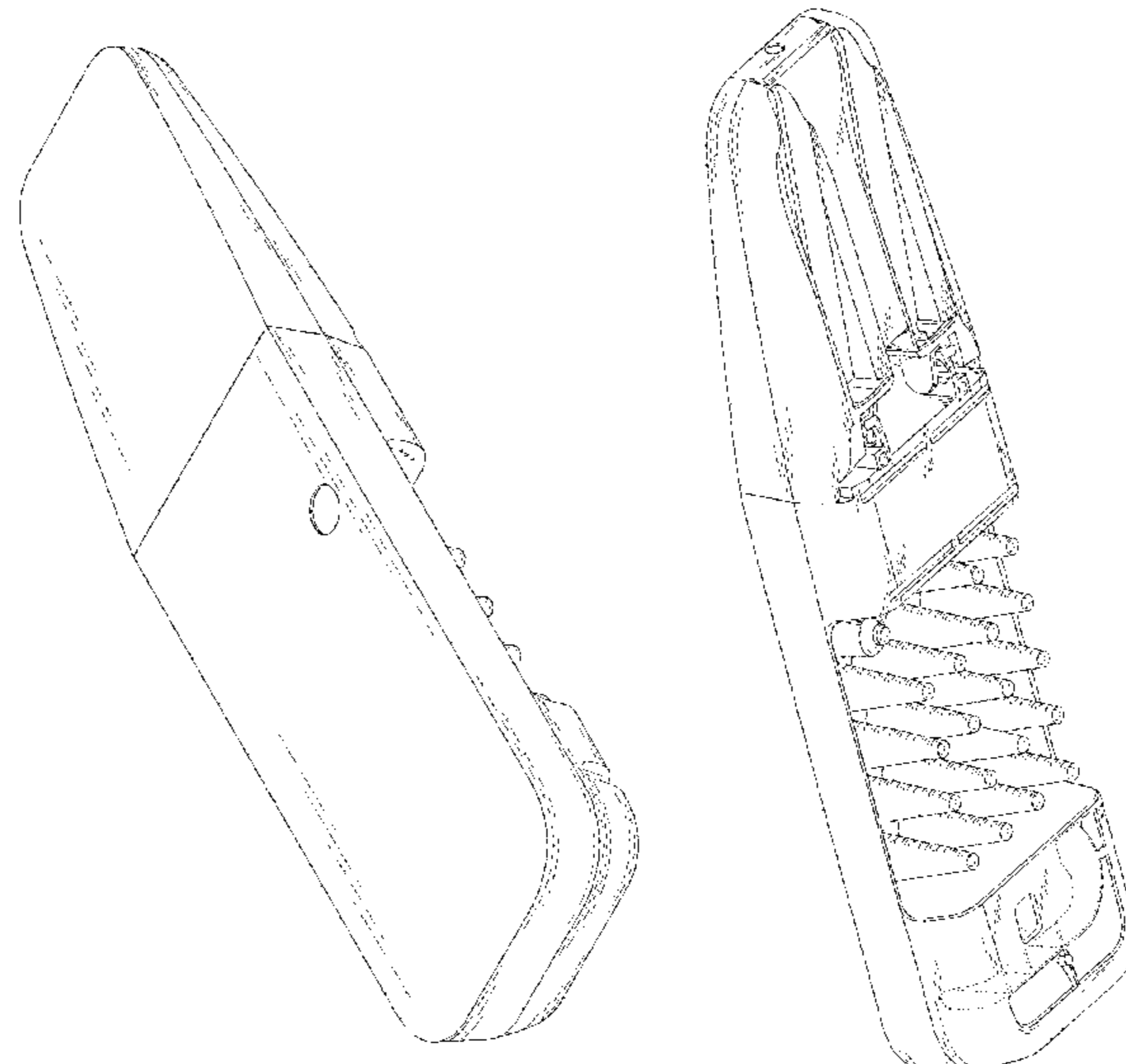
(56) **References Cited**

U.S. PATENT DOCUMENTS

D282,208 S \* 1/1986 Lowry ..... 73/863.32  
4,576,185 A 3/1986 Proud et al.  
D438,633 S \* 3/2001 Miller ..... D24/216  
D631,554 S 1/2011 Jackson et al.  
D638,953 S \* 5/2011 Cavada ..... D24/226  
D639,975 S \* 6/2011 Doyle ..... D24/225  
D649,658 S 11/2011 Belfance et al.

(Continued)

**1 Claim, 10 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D669,169	S	10/2012	Washington et al.	
8,383,421	B2	2/2013	Yanagida et al.	
8,409,872	B2	4/2013	Yokoi et al.	
D686,311	S *	7/2013	Mori .....	D24/108
8,697,377	B2	4/2014	Burd et al.	
D707,825	S	6/2014	Murai	
9,335,339	B2	5/2016	Tajima	
D785,811	S *	5/2017	Watts .....	D24/224
D830,548	S	10/2018	Kemp	
D833,639	S	11/2018	Peltosaari et al.	
10,118,177	B2 *	11/2018	Burroughs .....	B01L 3/5085
D843,009	S *	3/2019	Watts .....	D24/224
2009/0088336	A1	4/2009	Burd et al.	
2015/0250456	A1	9/2015	Olgun	
2016/0051415	A1	2/2016	Kuan et al.	
2017/0065971	A1	3/2017	Kreifels et al.	
2017/0350838	A1 *	12/2017	Katsumoto .....	B01L 3/50
2020/0290037	A1	9/2020	Salomon et al.	

FOREIGN PATENT DOCUMENTS

WO	WO 02/090995	11/2002
WO	WO 2004/061418	7/2004
WO	WO 2013/043203	3/2013
WO	WO 2013/049706	4/2013
WO	WO 2013/068760	5/2013
WO	WO 2019/087176	5/2019

OTHER PUBLICATIONS

Supplementary European Search Report and the European Search Opinion dated Jul. 8, 2021 From the European Patent Office Re. Application No. 18874575.6. (50 Pages).

\* cited by examiner

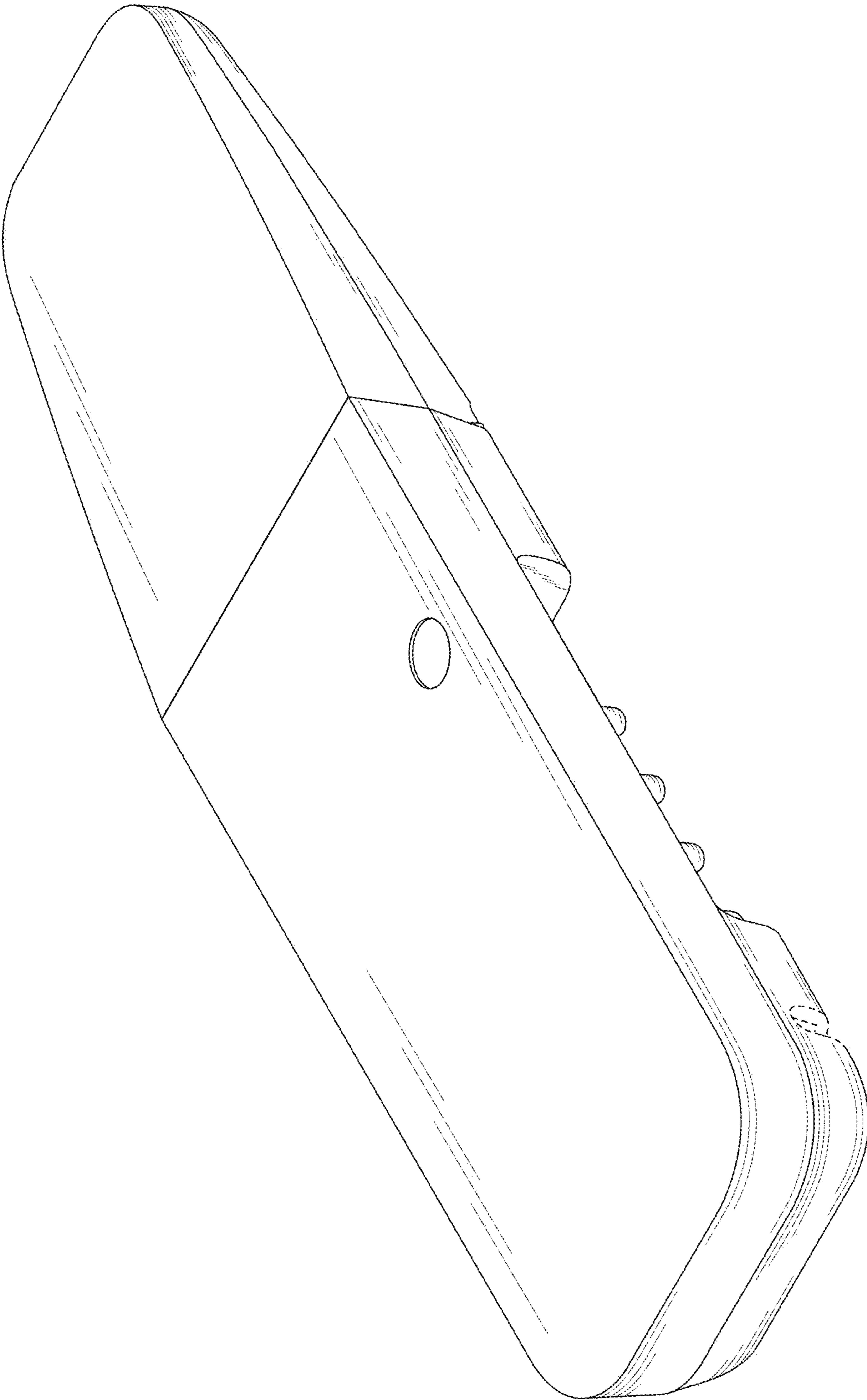


FIG. 1

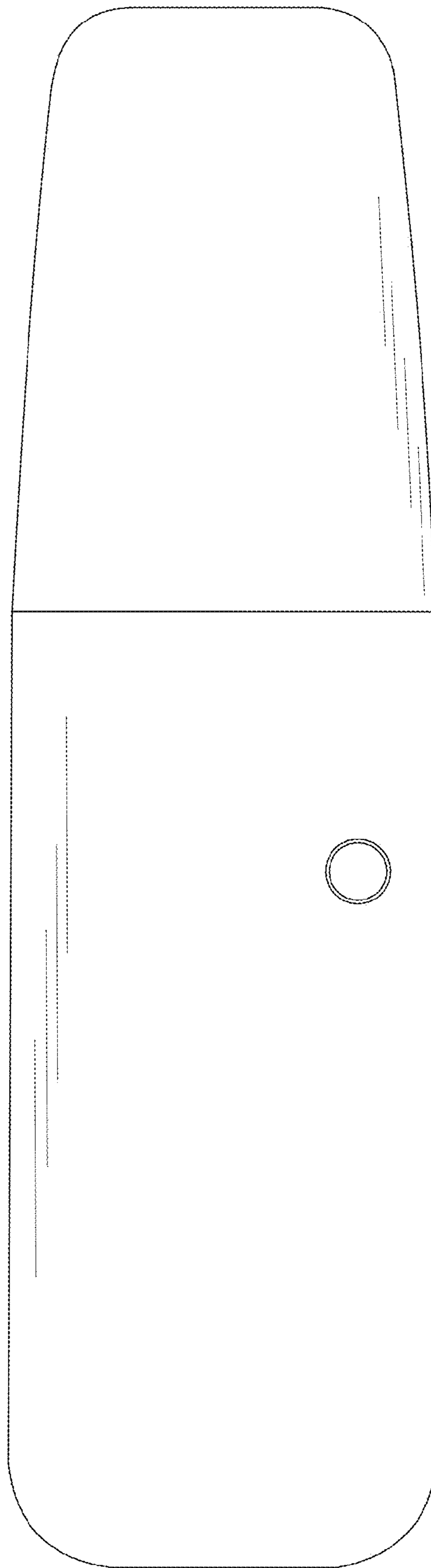


FIG. 2

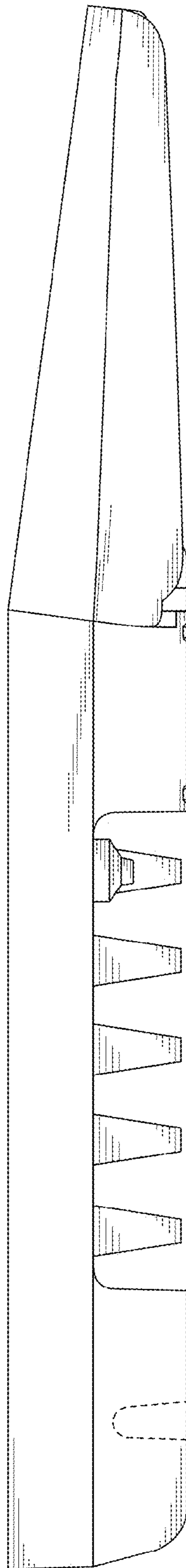


FIG. 3

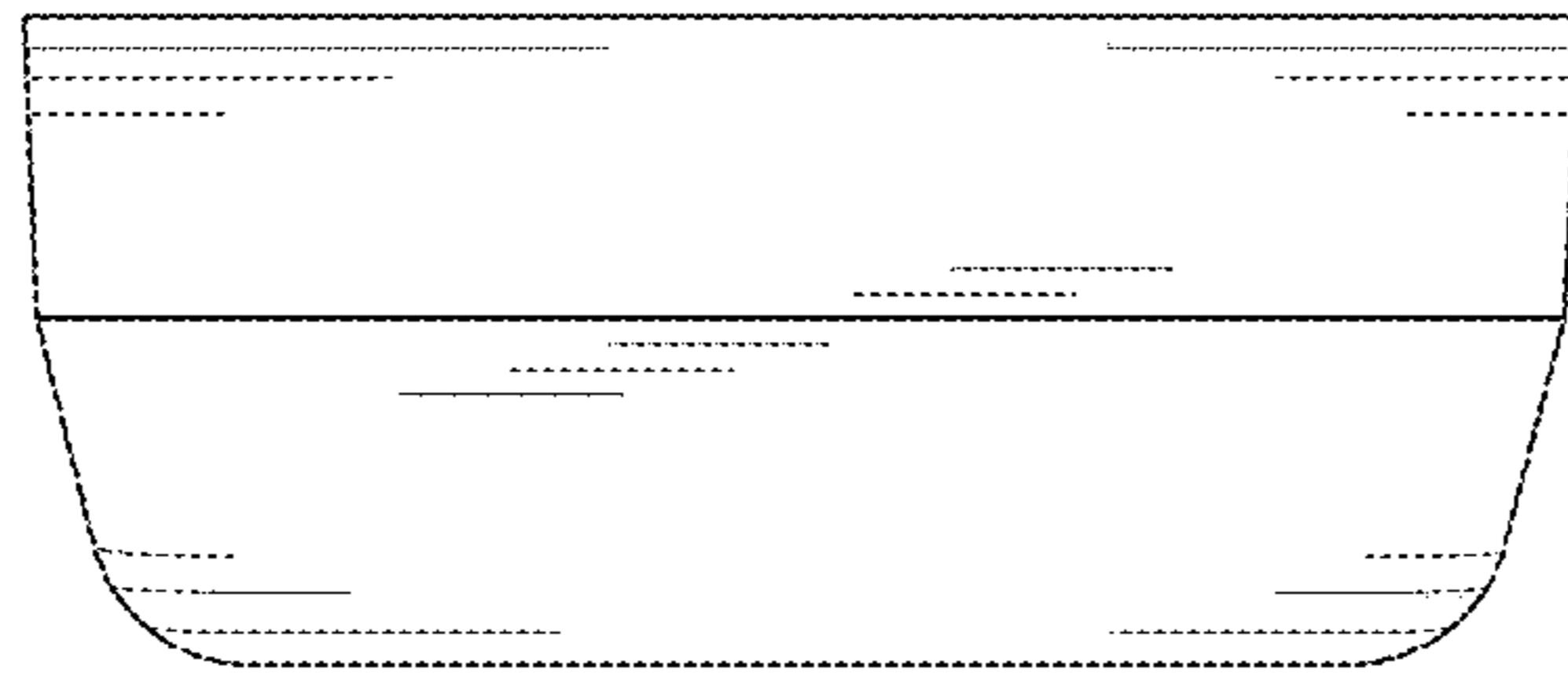


FIG. 4

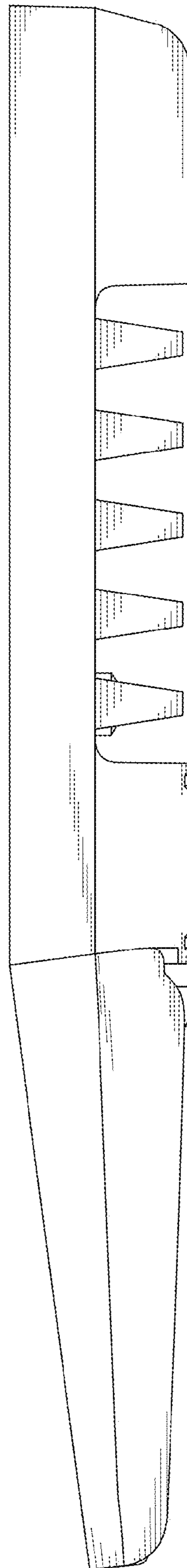


FIG. 5



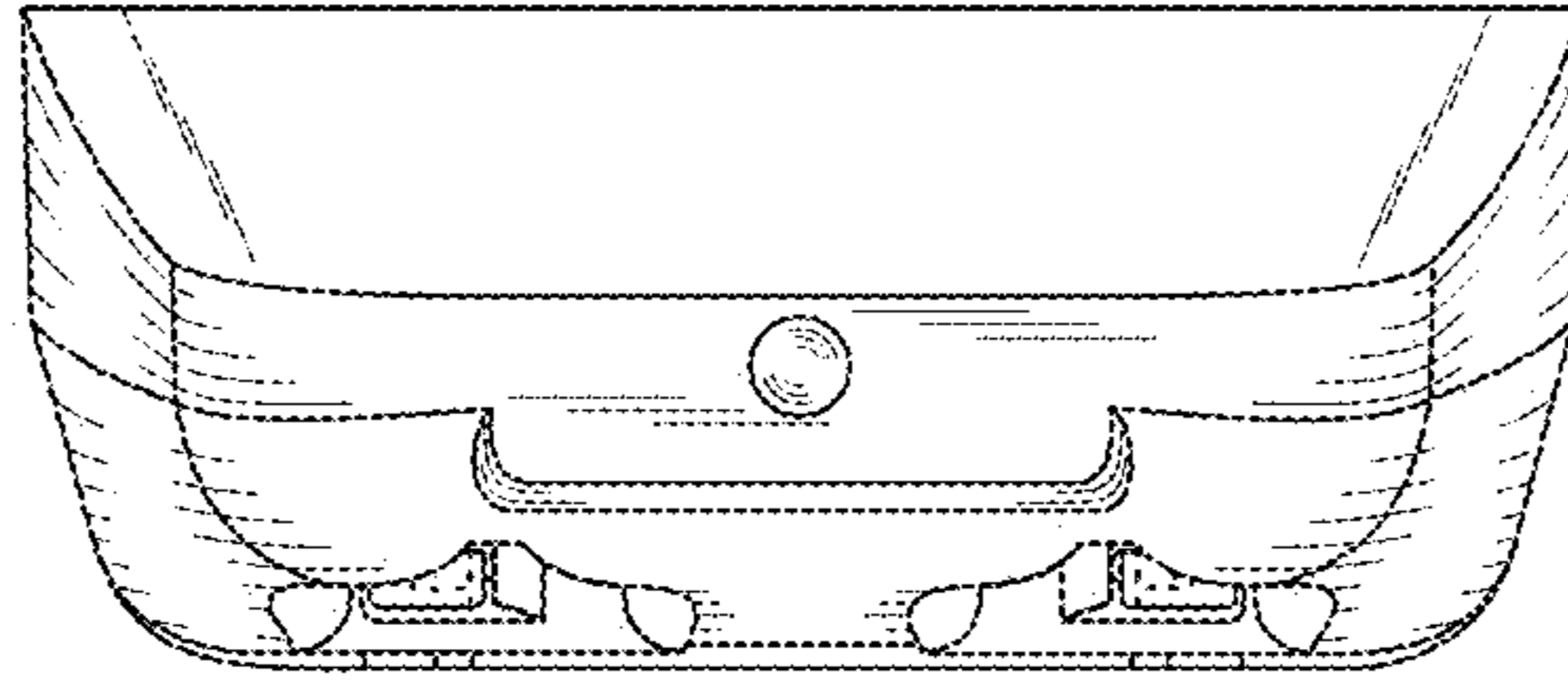


FIG. 6



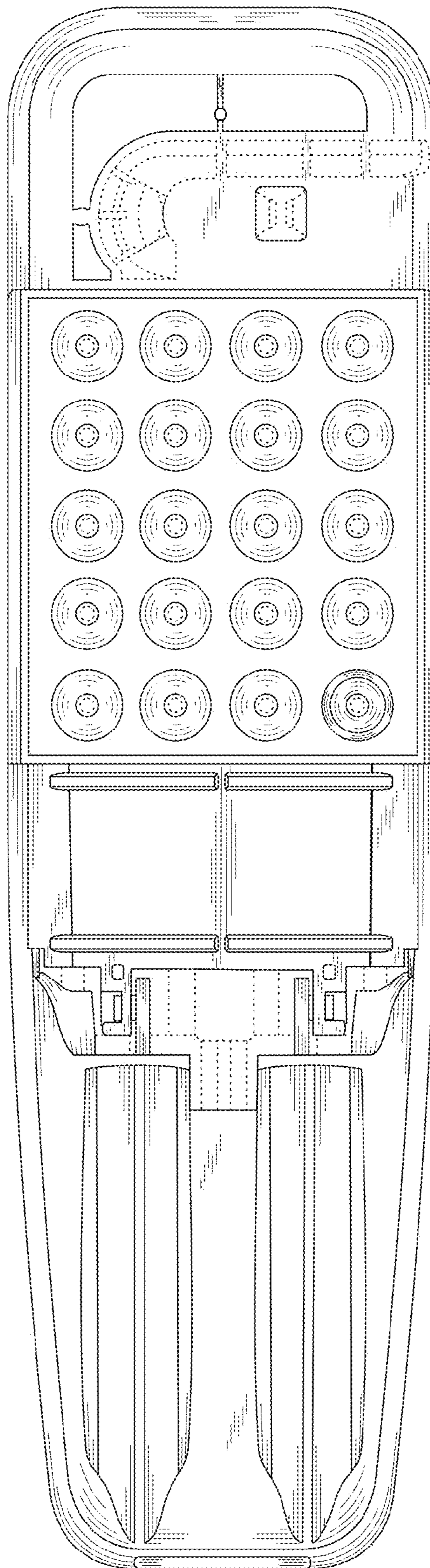


FIG. 7

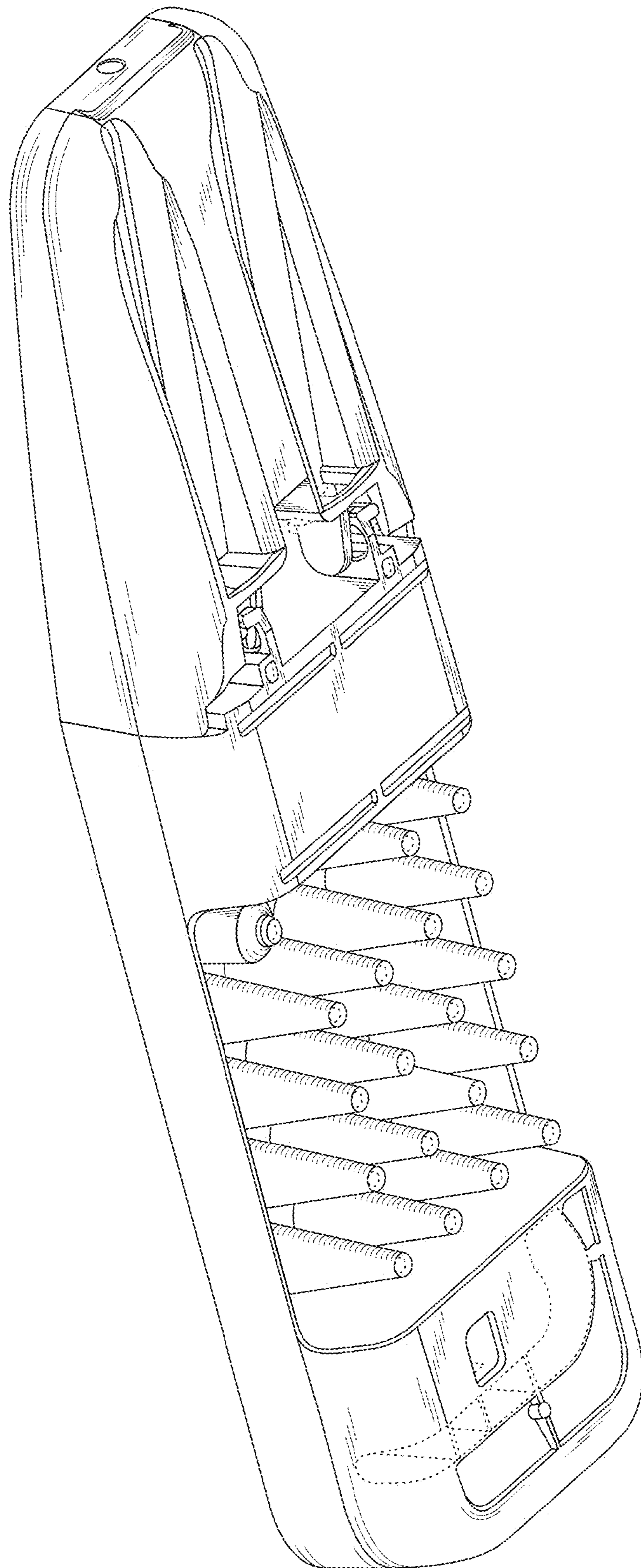


FIG. 8

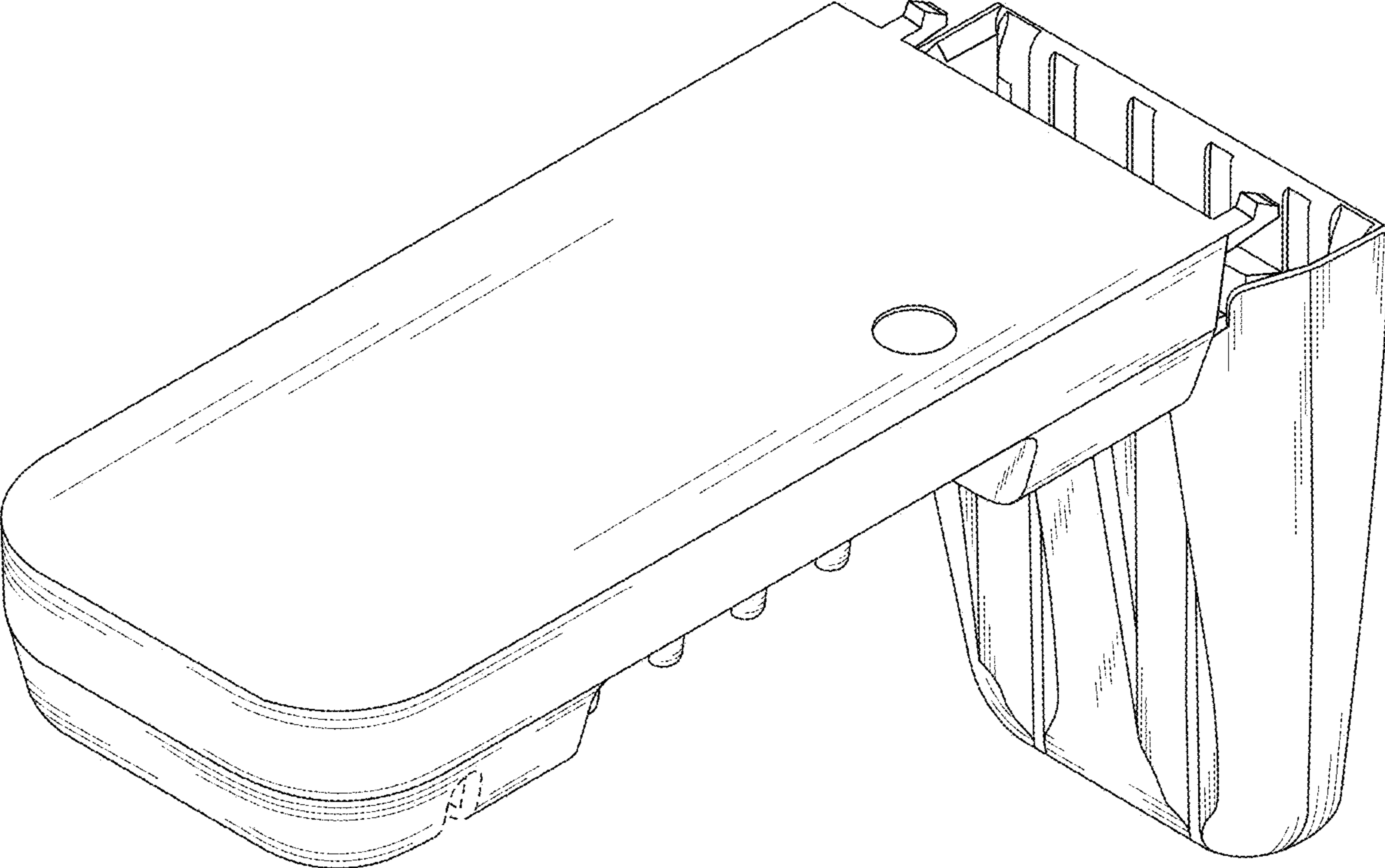


FIG. 9

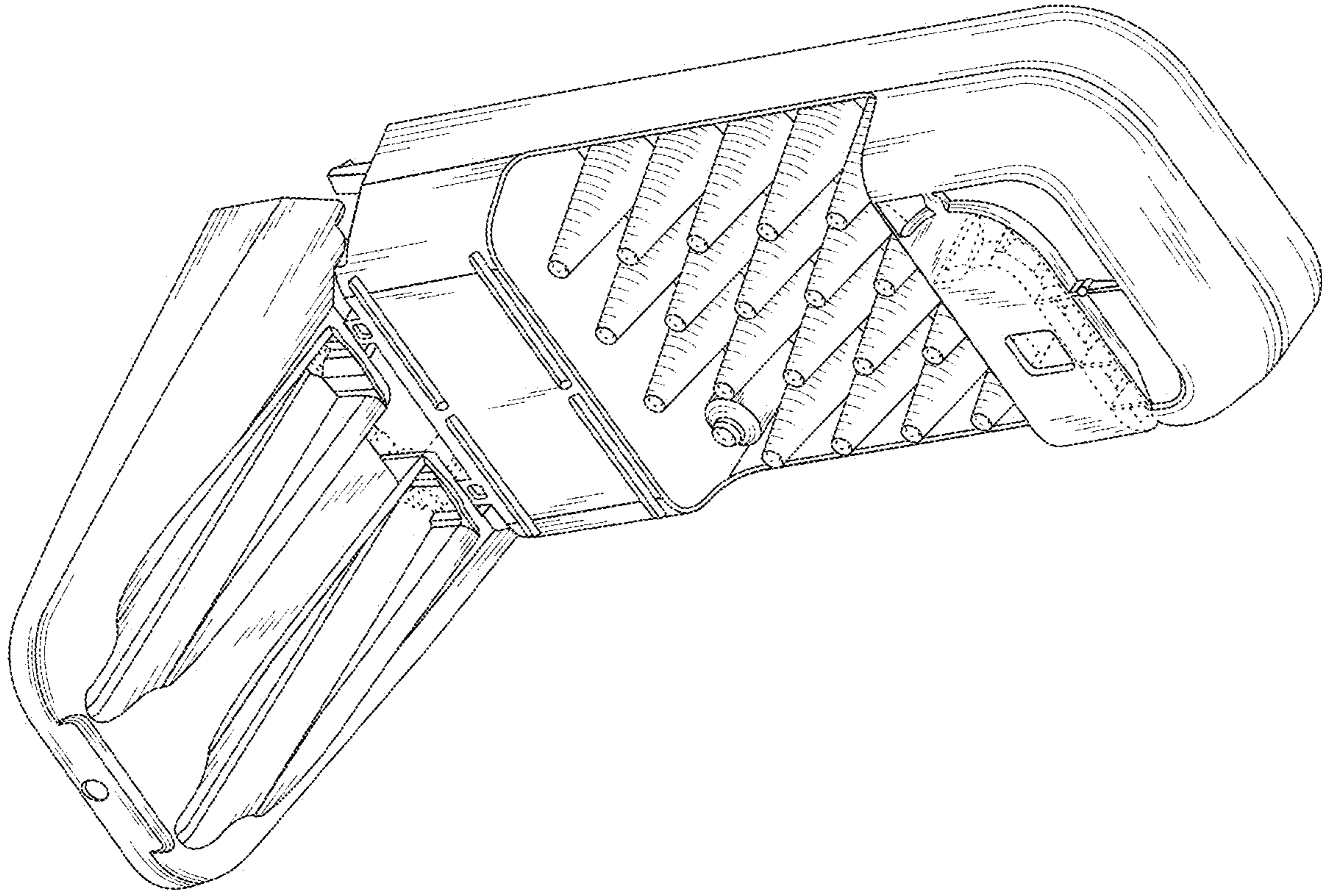


FIG. 10