

US00D847977S

(12) **United States Design Patent** (10) **Patent No.:** **US D847,977 S**  
**Protasiewicz et al.** (45) **Date of Patent:** **\*\* \*May 7, 2019**

(54) **INJECTION ASSIST DEVICE**  
(71) Applicant: **West Pharmaceutical Services, Inc.**,  
Exton, PA (US)  
(72) Inventors: **Raymond Protasiewicz**, Whippany, NJ  
(US); **Brian Costello**, Whitehouse  
Station, NJ (US)

9,008,764 B2 4/2015 Larsen  
D752,763 S \* 3/2016 Rondoni ..... D24/186  
D760,374 S \* 6/2016 Nagar ..... D24/108  
9,373,269 B2 6/2016 Bergman et al.  
D761,434 S \* 7/2016 Nelson ..... D24/186  
9,443,445 B2 9/2016 Laurusonis et al.  
9,457,153 B2 10/2016 Marano, Jr. et al.  
9,460,638 B2 10/2016 Baker et al.  
D776,874 S \* 1/2017 Kling ..... D24/133

(Continued)

(73) Assignee: **West Pharmaceutical Services, Inc.**,  
Exton, PA (US)

**FOREIGN PATENT DOCUMENTS**

(\*) Notice: This patent is subject to a terminal disclaimer.

WO 2016054634 A1 4/2016

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

*Primary Examiner* — David G Muller

(74) *Attorney, Agent, or Firm* — Panitch Schwarze  
Belisario & Nadel LLP

(21) Appl. No.: **29/625,023**

(57) **CLAIM**

(22) Filed: **Nov. 6, 2017**

The ornamental design for an injection assist device, as shown and described.

(51) **LOC (11) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/113**

**DESCRIPTION**

(58) **Field of Classification Search**  
USPC ..... D24/112–114, 108, 133, 130, 127, 186;  
606/181, 185; 604/264, 272, 187, 181,  
604/184, 227  
CPC ..... A61M 5/427; A61M 5/178; A61M 3/00;  
A61M 5/20; A61M 5/31; A61M 5/3146;  
A61M 5/3129; A61M 5/3148; A61M  
5/315

The file of this patent contains at least one drawing executed in color. Copies of this patent with color drawings will be provided by the Patent and Trademark Office upon request and payment of the necessary fee.

FIG. 1 is a front and top perspective view of an injection assist device in accordance with our new design;

FIG. 2 is a top plan view thereof;

FIG. 3 is a right side elevational view thereof, a left side elevational view being identical;

FIG. 4 is a front elevational view thereof; and,

FIG. 5 is rear elevational view thereof.

The bottom view of the injection assist device is not shown in the drawings nor described in the specification and, therefore, forms no part of the claimed design.

The broken line showing of parts of the drawings is included for the purpose of illustrating use and environment and forms no part of the claimed design.

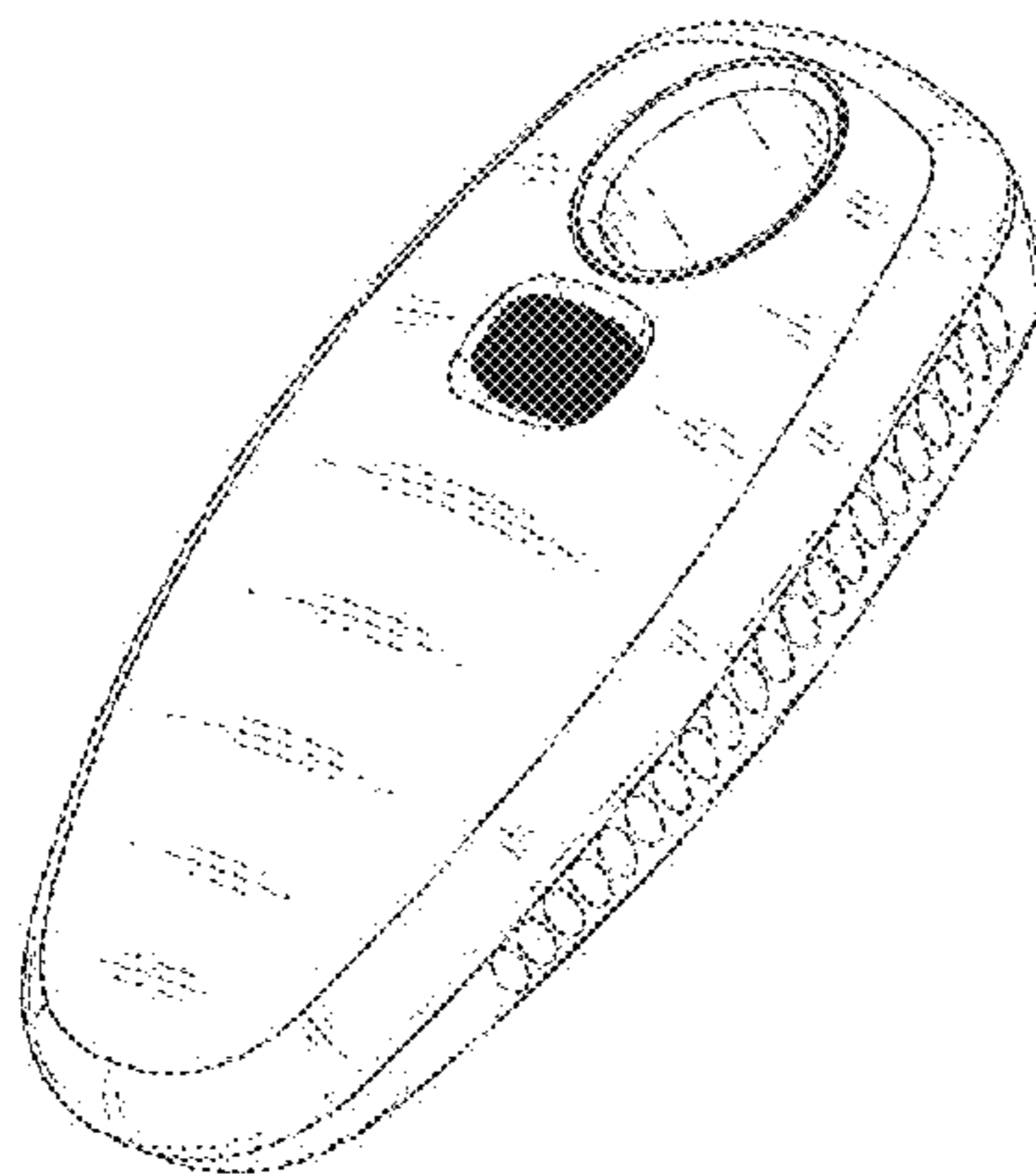
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,809,997 A 9/1998 Wolf  
6,202,642 B1 3/2001 McKinnon et al.  
6,254,586 B1 7/2001 Mann et al.  
D544,605 S \* 6/2007 Gumisawa ..... D24/186  
8,425,425 B2 4/2013 Hagy et al.  
D687,140 S \* 7/2013 Guarraia ..... D24/108  
8,926,525 B2 1/2015 Hulvershorn et al.

**1 Claim, 4 Drawing Sheets**  
**(4 of 4 Drawing Sheet(s) Filed in Color)**



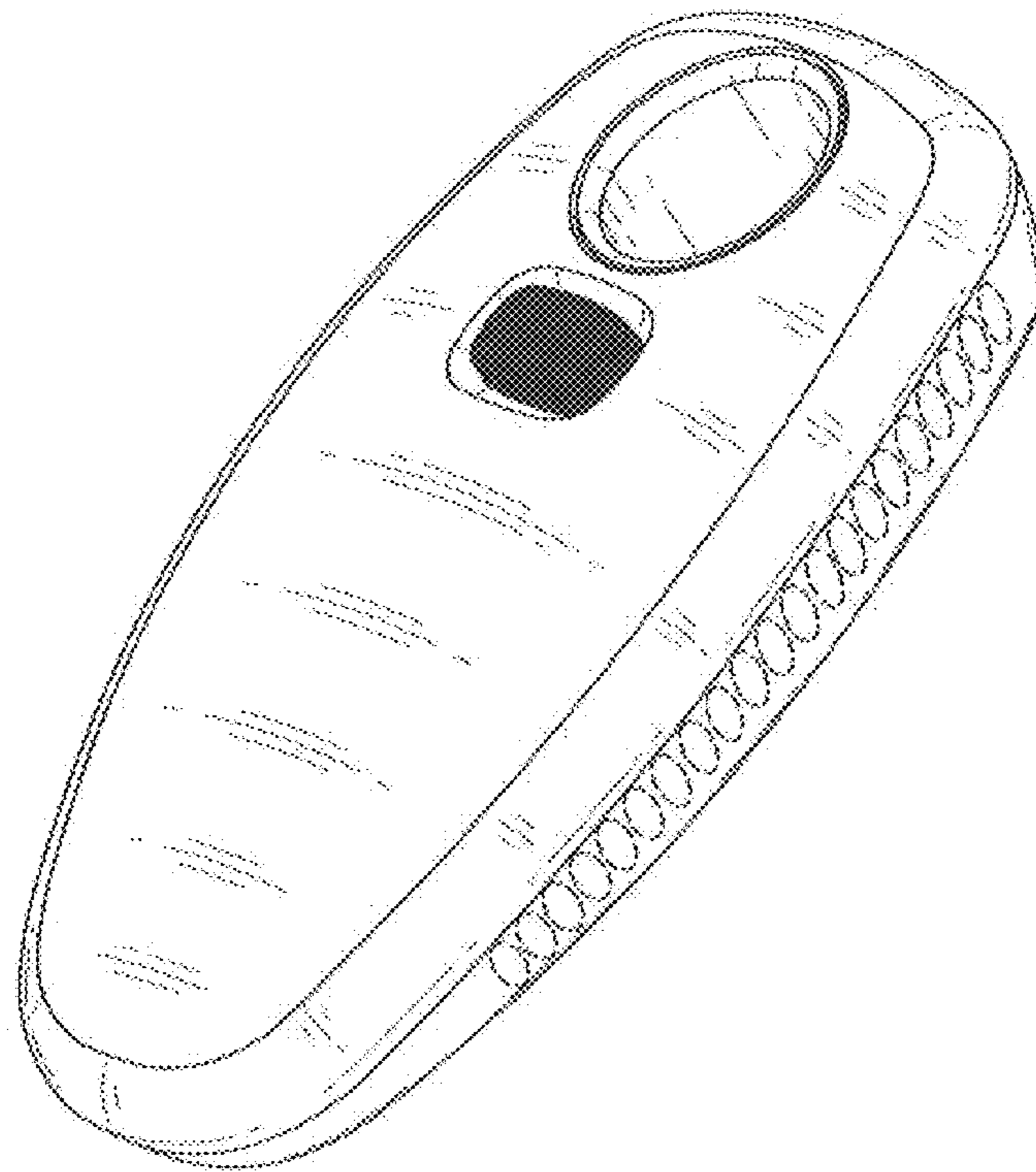
(56)

**References Cited**

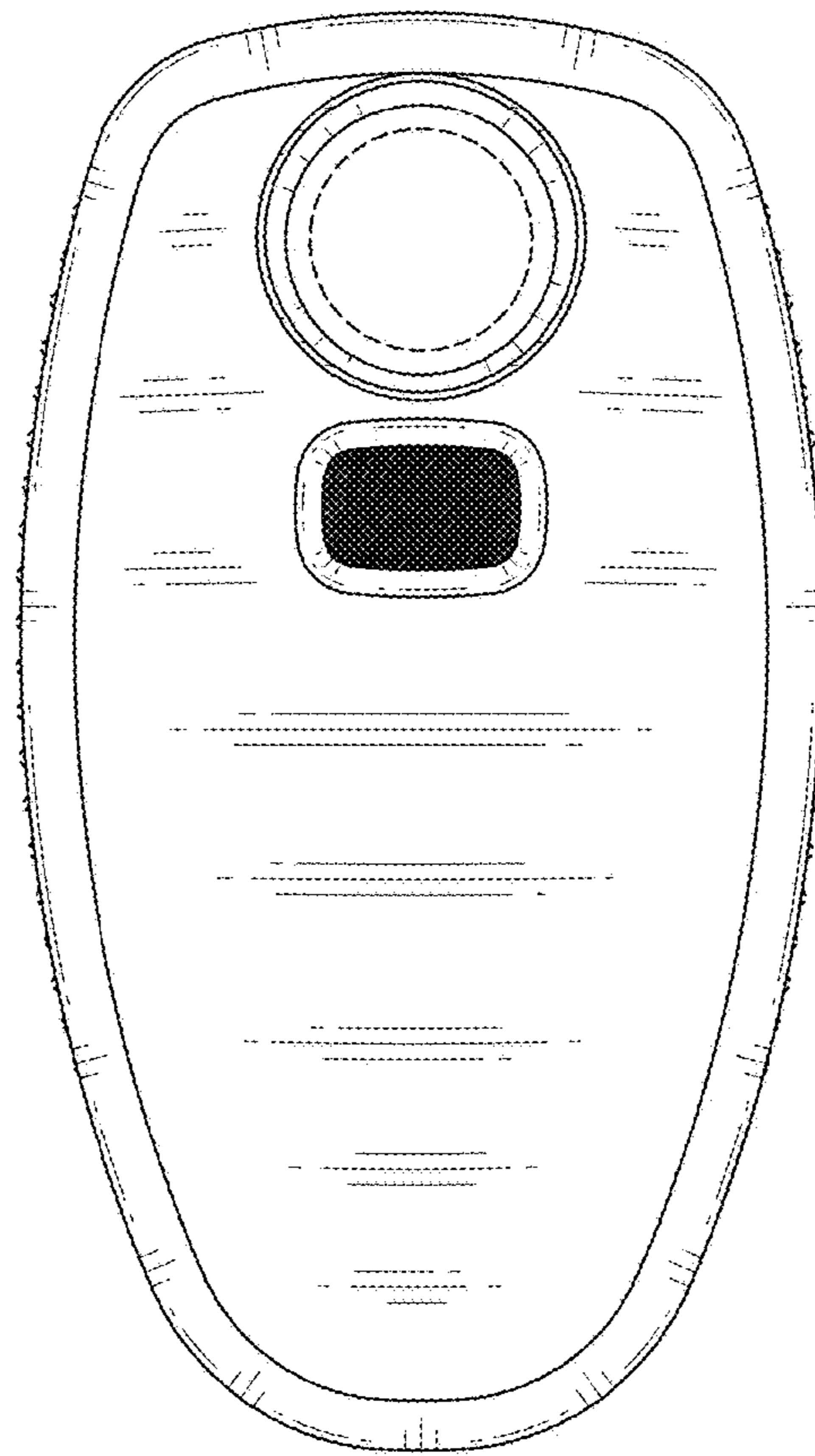
## U.S. PATENT DOCUMENTS

9,668,682	B2	6/2017	Brister et al.	
9,743,875	B2	8/2017	Maguire et al.	
D801,538	S *	10/2017	Rondoni .....	D24/186
D805,189	S *	12/2017	Costello .....	D24/113
D806,235	S *	12/2017	Costello .....	D24/113
D810,306	S *	2/2018	Rondoni .....	D24/186
D812,739	S *	3/2018	Wolford .....	D24/111
D813,380	S *	3/2018	Stonecipher .....	D24/113
D813,396	S *	3/2018	Yoon .....	D24/167
2011/0202012	A1	8/2011	Bartlett	
2014/0303564	A1	10/2014	Roberts et al.	
2014/0324021	A1	10/2014	Ulrich et al.	
2014/0335494	A1	11/2014	Yanev et al.	
2015/0004582	A1	1/2015	Baker et al.	
2015/0119666	A1	4/2015	Brister et al.	
2015/0170545	A1	6/2015	Baker et al.	
2015/0374273	A1	12/2015	Maguire et al.	
2015/0379899	A1	12/2015	Baker et al.	
2015/0379900	A1	12/2015	Samosky et al.	
2016/0113576	A1	4/2016	Hulvershorn et al.	
2016/0121056	A1	5/2016	Edwards et al.	
2016/0284239	A1	9/2016	Bergman et al.	
2016/0287241	A1	10/2016	Azevedo	
2016/0293053	A1	10/2016	Azevedo	
2016/0310663	A1	10/2016	Dantsker	
2016/0335920	A1	11/2016	Bendek et al.	
2016/0367766	A1	12/2016	Baker et al.	
2016/0374612	A9	12/2016	Hulvershorn et al.	

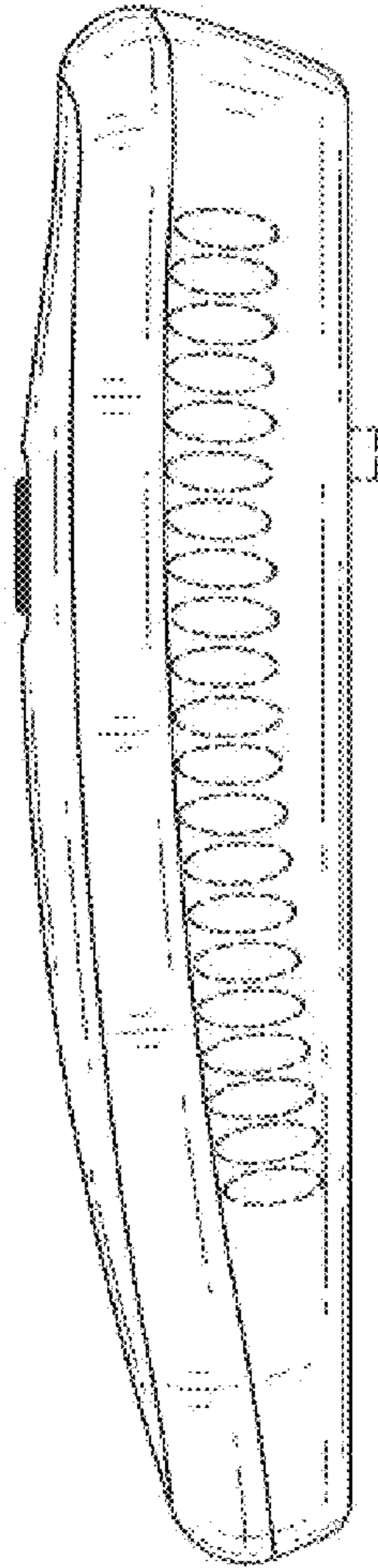
\* cited by examiner



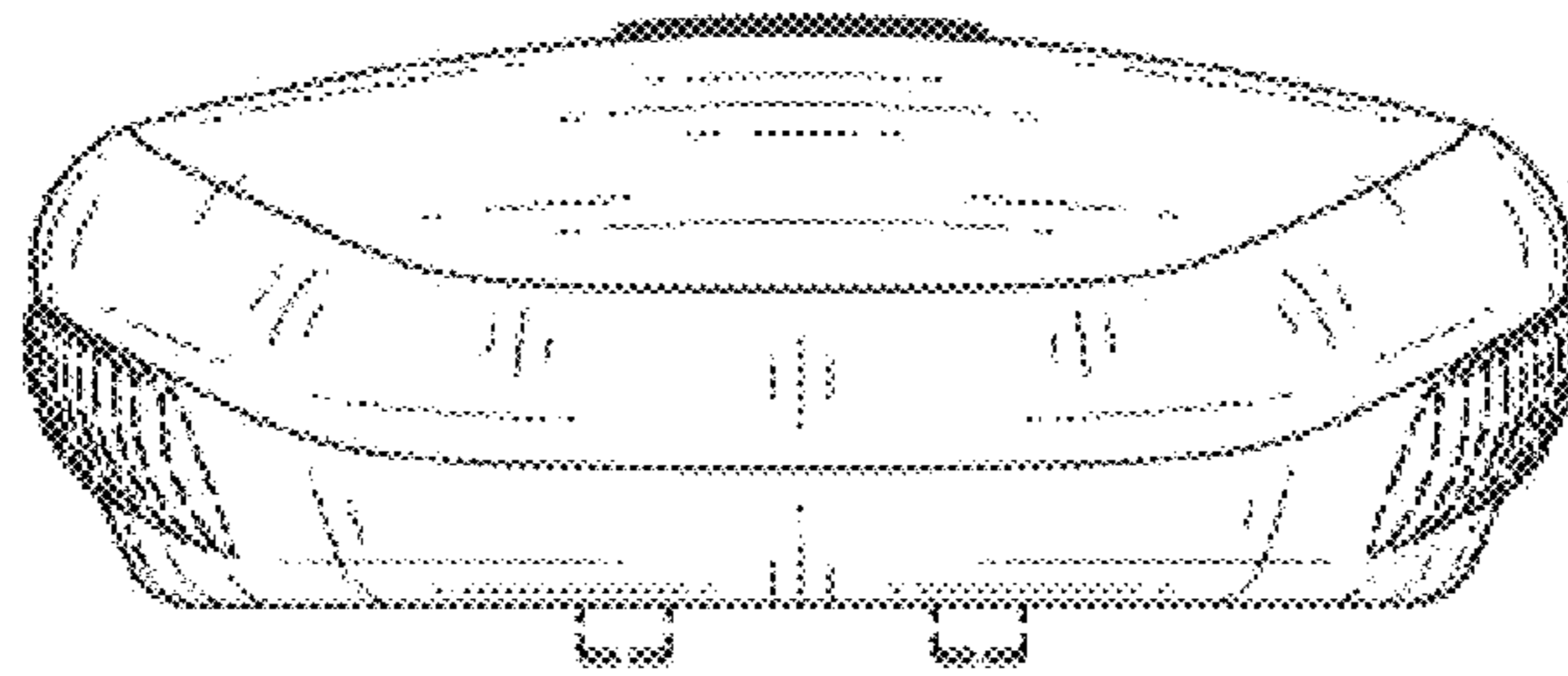
*Fig. 1*



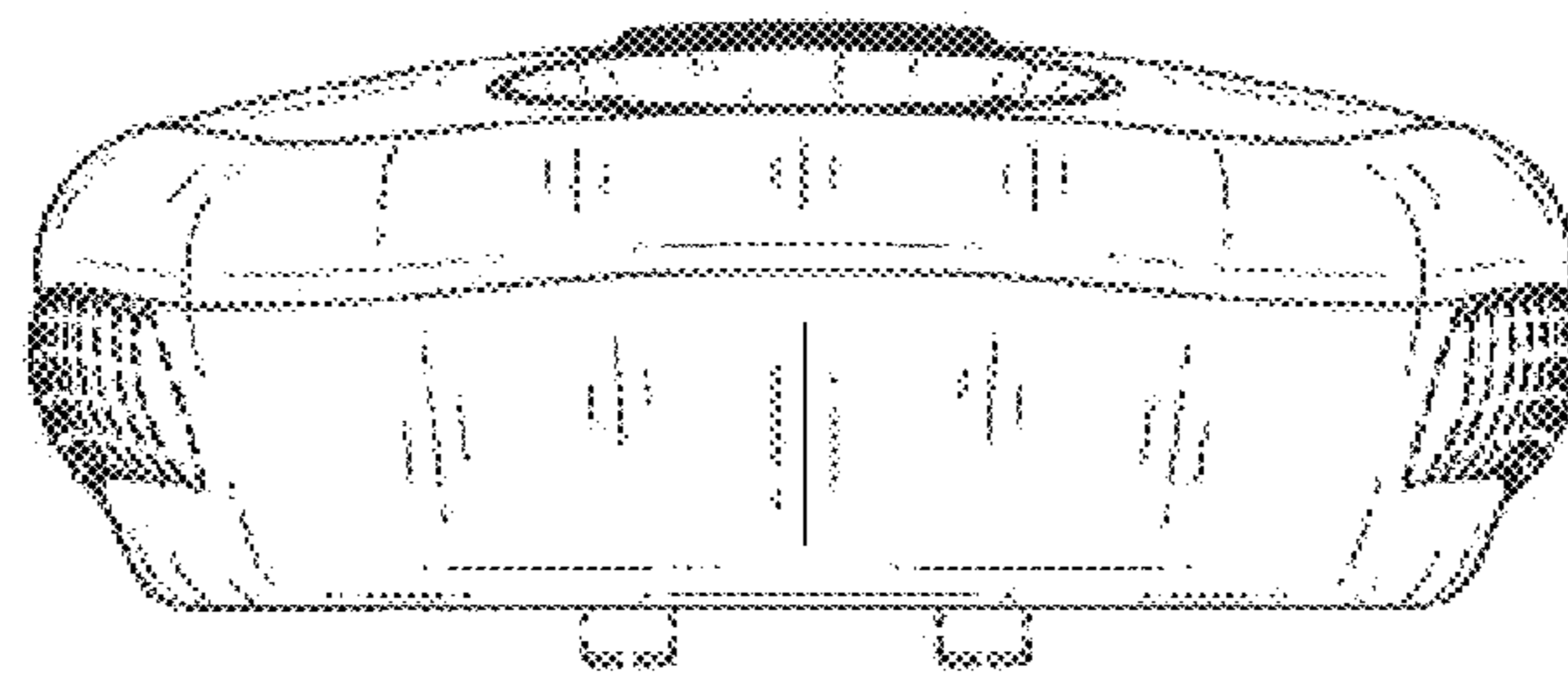
*Fig. 2*



*Fig. 3*



*Fig. 4*



*Fig. 5*