



US00D922938S

(12) **United States Design Patent** (10) **Patent No.:** **US D922,938 S**
Sexton et al. (45) **Date of Patent:** **** Jun. 22, 2021**

(54) **BATTERY**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **TTi (Macao Commercial Offshore) Limited**, Macau (MO)

CN 203932131 U 11/2014
CN 204254546 U 4/2015

(Continued)

(72) Inventors: **Joseph Sexton**, Charlotte, NC (US);
Somnanritha Chan, Charlotte, NC (US);
Benjamin Shrader, Newton, NC (US);
Bradley Hooley, Charlotte, NC (US)

OTHER PUBLICATIONS

Hoover Battery Pack, Applicant sold in the U.S. a battery similar to the one illustrated in Appendix A on Mar. 18, 2014.

(73) Assignee: **Techtronic Floor Care Technology Limited**, Praia Grande (MO)

Primary Examiner — Nathaniel D. Buckner

(74) *Attorney, Agent, or Firm* — Michael Best & Friedrich LLP

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

(57) **CLAIM**

(21) Appl. No.: **29/670,224**

The ornamental design for battery, as shown and described.

(22) Filed: **Nov. 14, 2018**

DESCRIPTION

(30) **Foreign Application Priority Data**

May 21, 2018 (CN) 201830235701.2

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

(52) **U.S. Cl.**
USPC **D13/103**

(58) **Field of Classification Search**
USPC D13/102–106, 110, 118–119, 184
CPC Y02E 60/12; Y02E 60/122; Y02E 60/124;
Y02E 60/50; H01M 2/02; H01M 2/022;
H01M 2/0202; H01M 2/0207; H01M
2/0212; H01M 2/1061; H01M 2/1022;
H01M 2/1055; H01M 2/1066; H01M
2/105; H01M 2/204; H01M 2/1016;
H01M

(Continued)

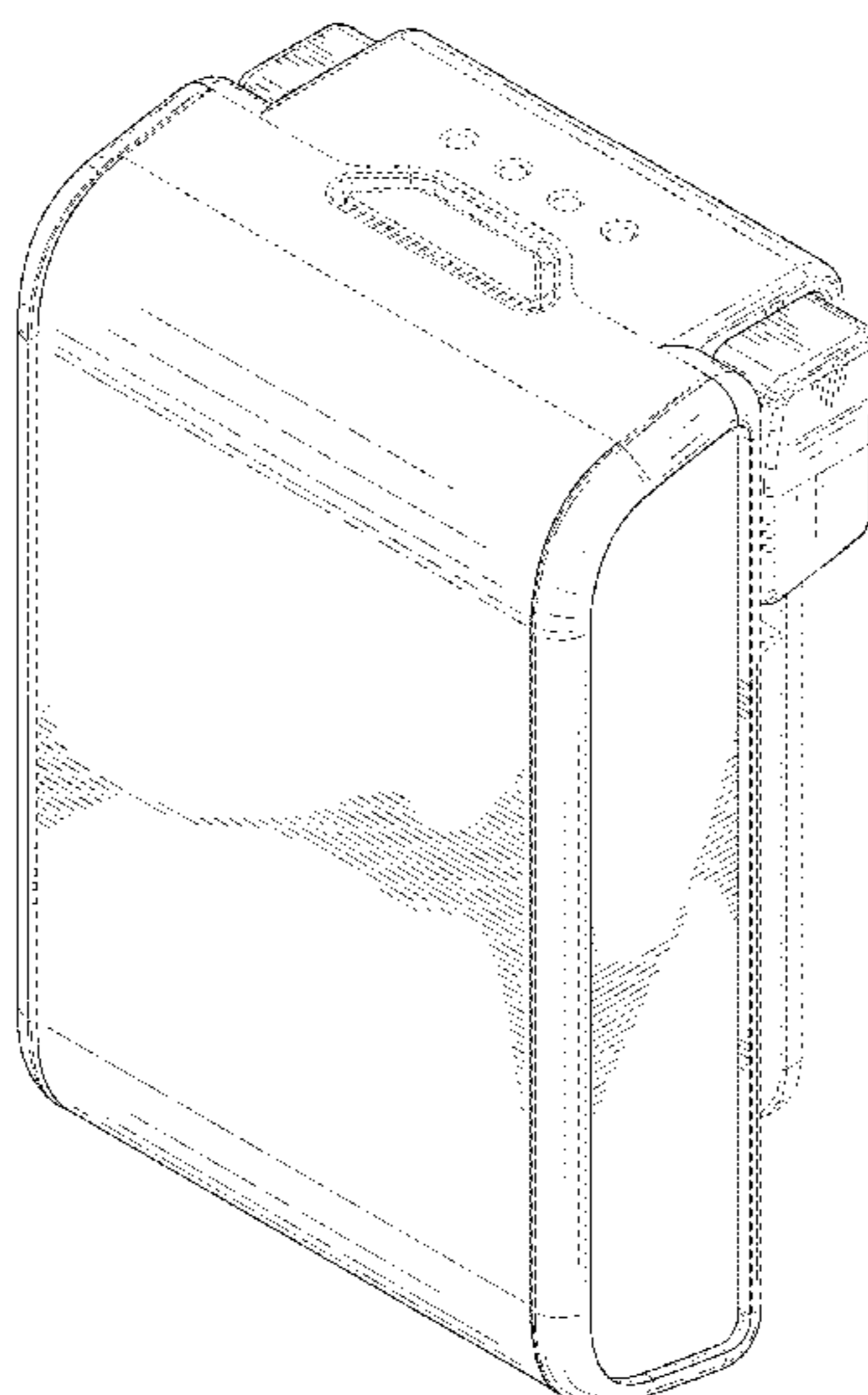
(56) **References Cited**

U.S. PATENT DOCUMENTS

5,707,757 A 1/1998 Lee
D506,065 S 6/2005 Sugino et al.

(Continued)

1 Claim, 13 Drawing Sheets



(58) **Field of Classification Search**
 CPC 2200/00; H01M 10/4257; H01M 10/0436;
 H01M 10/48; H01M 10/42
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D512,373	S	*	12/2005	Tsai	.....	D13/103
D514,060	S	*	1/2006	Wong	.....	D13/103
D516,020	S	*	2/2006	Wong	.....	D13/103
D529,438	S		10/2006	Viduya et al.		
D557,203	S		12/2007	Grunow et al.		
D562,227	S	*	2/2008	Yamada	.....	D13/103
D562,228	S	*	2/2008	Okada	.....	D13/103
D568,239	S	*	5/2008	Okada	.....	D13/103
D576,545	S		9/2008	Mandel et al.		
D580,351	S		11/2008	Elsmark et al.		
D580,852	S		11/2008	Heinzen et al.		
D589,439	S		3/2009	Van Wembeke		
D591,231	S		4/2009	Wung et al.		
D594,403	S		6/2009	Yang		
D597,932	S		8/2009	Aglassinger		
D597,933	S		8/2009	Aglassinger		
D597,934	S		8/2009	Aglassinger		
D598,373	S		8/2009	Aglassinger		
D606,935	S		12/2009	Murayama et al.		
D607,814	S	*	1/2010	Tsuzuki	.....	D13/103
D610,537	S		2/2010	Sweeney		
7,654,683	B2		2/2010	Ellis		
7,659,693	B2		2/2010	Hensel et al.		
7,704,638	B2		4/2010	Funahashi et al.		
D622,661	S	*	8/2010	Yamada	.....	D13/103
7,846,577	B2		12/2010	Kozu et al.		
D633,036	S		2/2011	Murray		
D639,730	S		6/2011	Kawase		
D640,190	S		6/2011	Aglassinger		
D640,628	S		6/2011	Lopano et al.		
D642,119	S		7/2011	Baetica et al.		

D658,578	S		5/2012	Davis		
D679,651	S		4/2013	Stratford		
D680,064	S		4/2013	Tirone et al.		
D681,550	S		5/2013	Corbin		
D682,192	S	*	5/2013	Corbin	.....	D13/103
D684,528	S		6/2013	Murray		
8,551,639	B2		10/2013	Byun		
8,708,063	B2		4/2014	Nagasaka et al.		
D712,826	S		9/2014	Marino et al.		
8,920,963	B2		12/2014	Hirano et al.		
9,246,156	B2		1/2016	Kwag et al.		
D765,592	S		9/2016	Friend		
D780,687	S	*	3/2017	Taniguchi	.....	D13/103
D800,650	S	*	10/2017	Itoh	.....	D13/103
9,806,386	B2		10/2017	Lim		
D826,150	S	*	8/2018	Cayon	.....	D13/103
D844,558	S	*	4/2019	Taniguchi	.....	D13/103
2012/0114998	A1		5/2012	Hwang		
2012/0141838	A1		6/2012	Lin et al.		
2013/0164567	A1		6/2013	Olsson et al.		
2014/0295257	A1		10/2014	Harada		
2015/0079434	A1		3/2015	Zahn		
2015/0214520	A1		7/2015	Nishikawa et al.		
2016/0072106	A1		3/2016	Baumgartner et al.		

FOREIGN PATENT DOCUMENTS

CN	205900658	U	1/2017
CN	206332070	U	7/2017
CN	207097909	U	3/2018
CN	207097939	U	3/2018
EP	2439810		4/2012
EP	2999026	A1	3/2016
GB	2495640	B2	4/2013
WO	2014049926	A1	4/2014
WO	2015029619	A1	3/2015
WO	2016015958	A1	2/2016
WO	2016120584	A1	8/2016
WO	2017175487	A1	10/2017

* cited by examiner

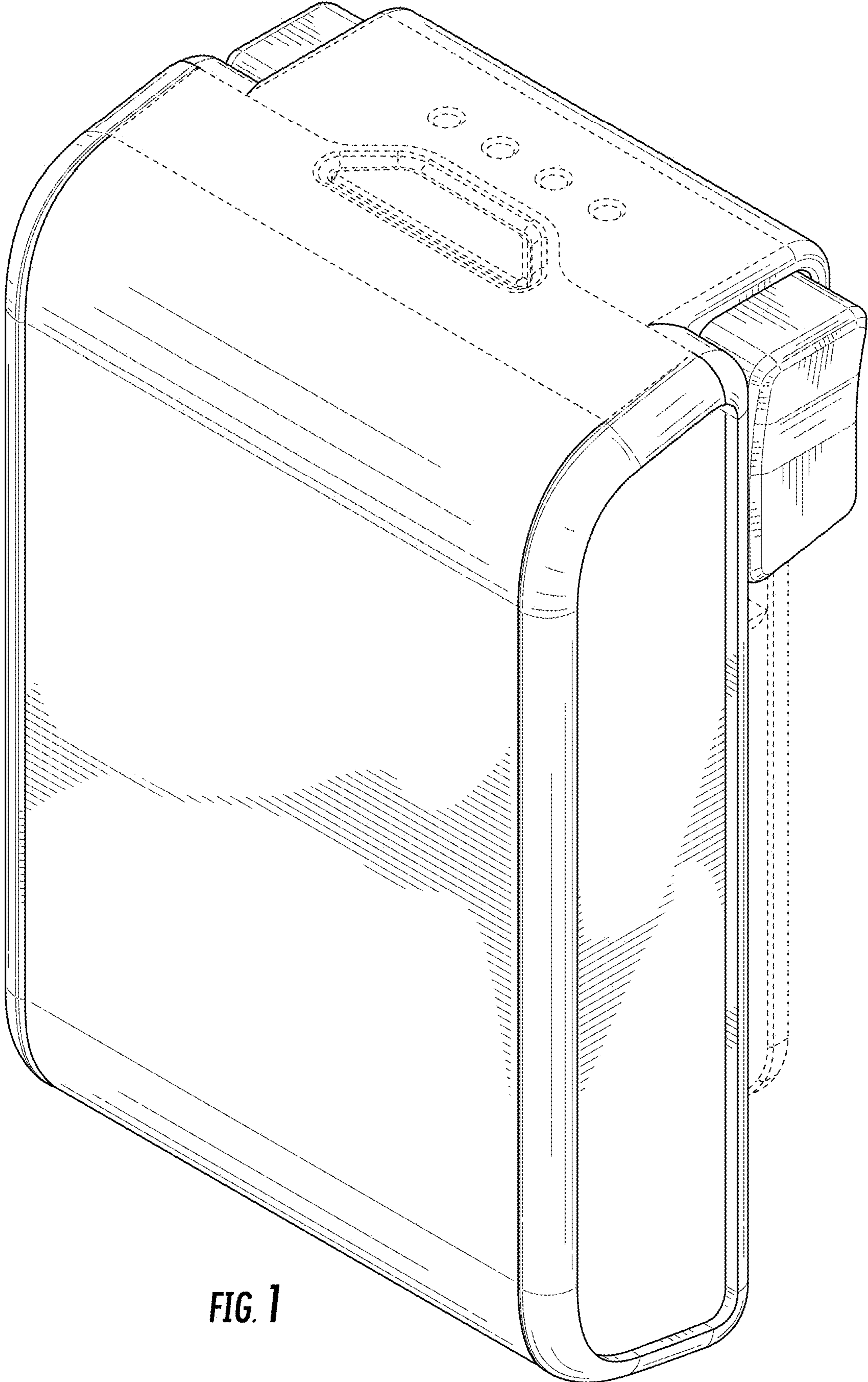


FIG. 1

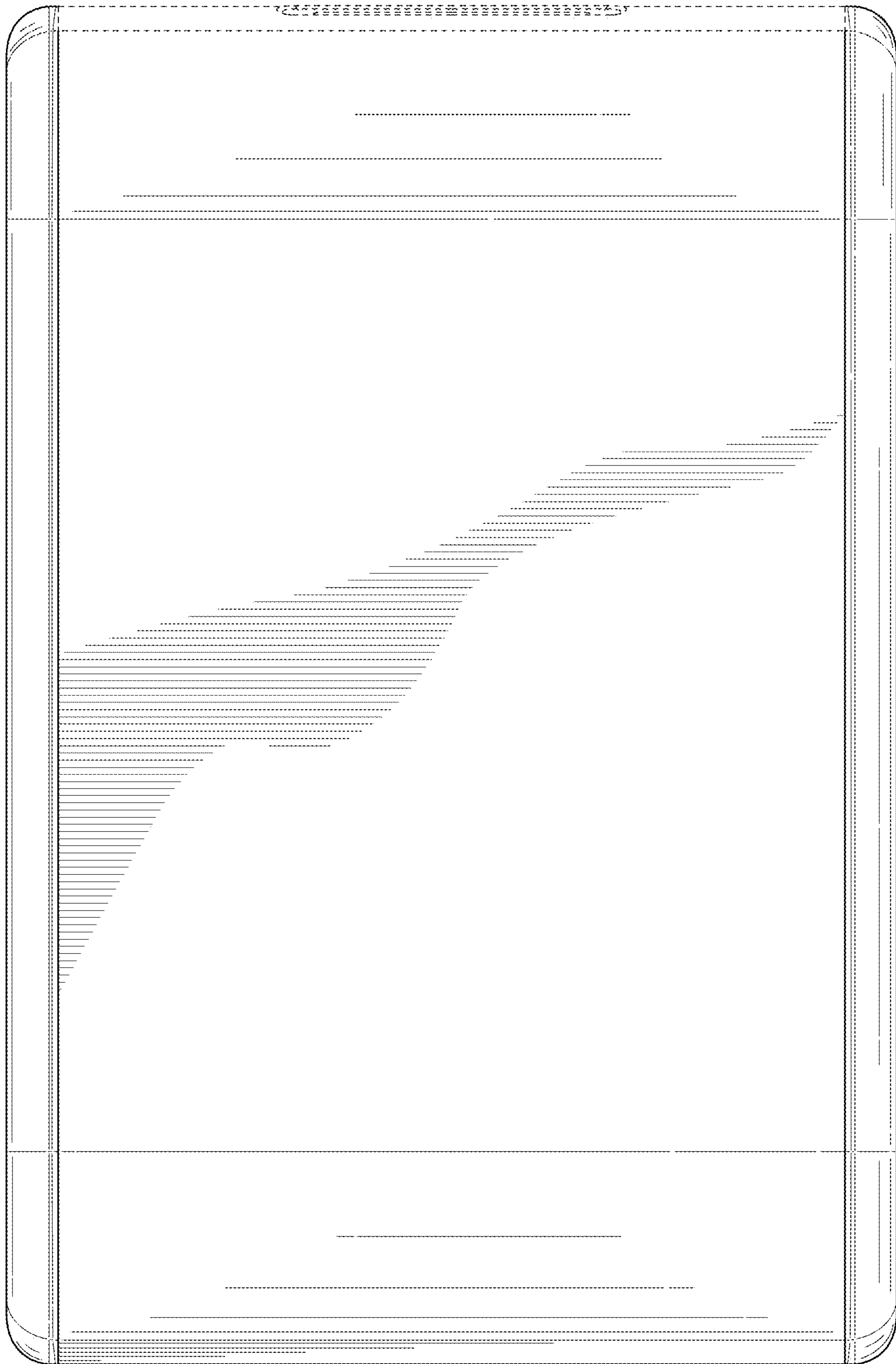


FIG. 2

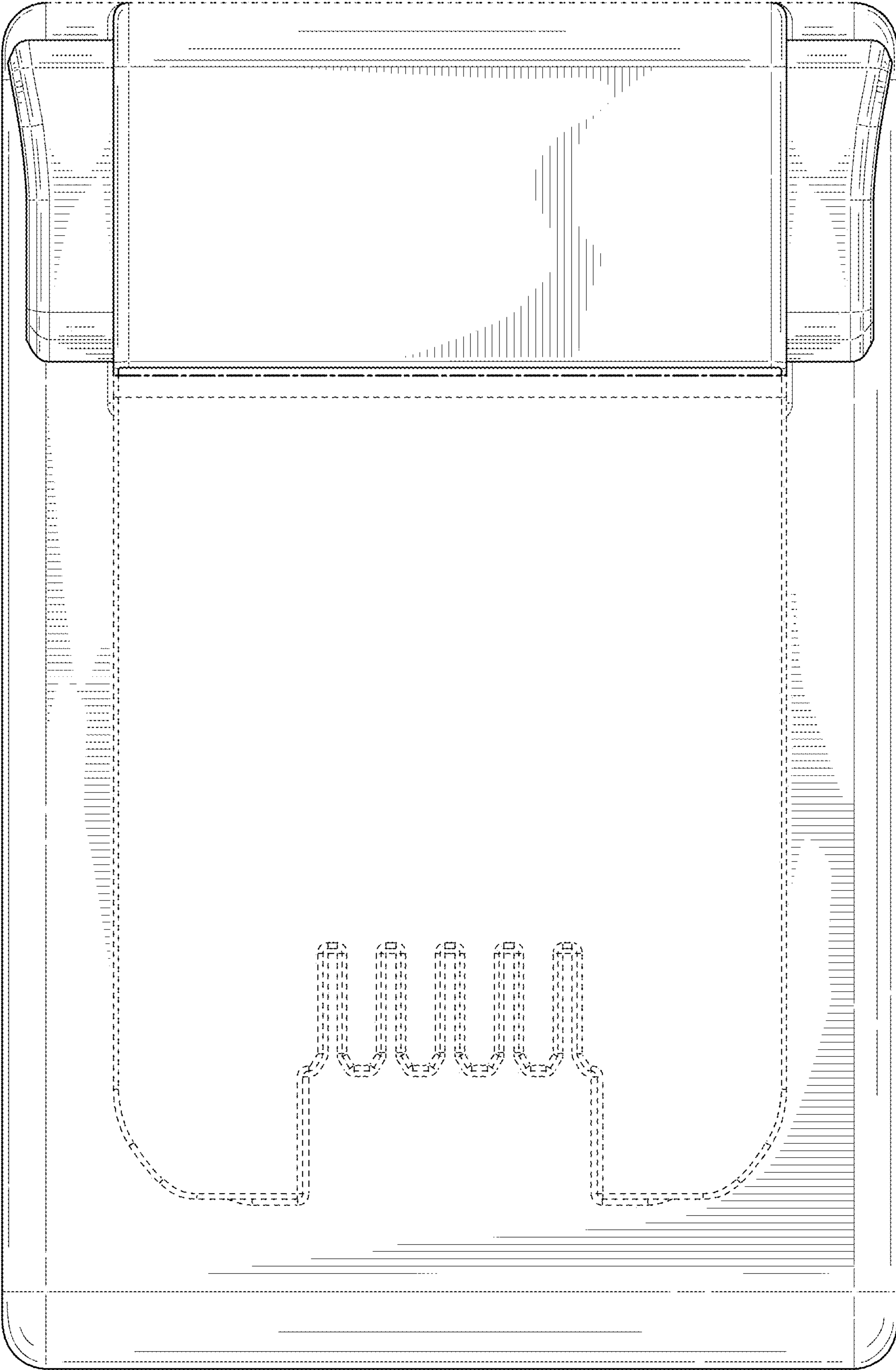


FIG. 3

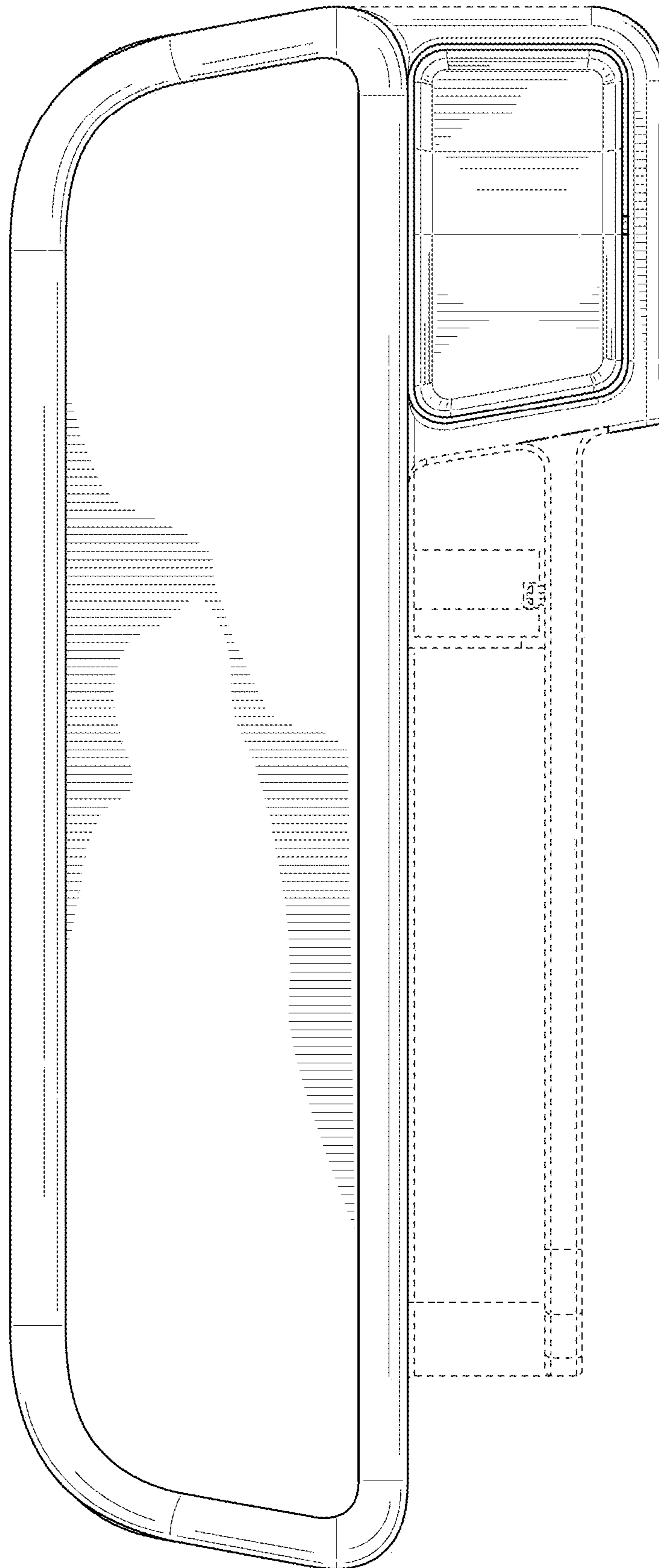


FIG. 4

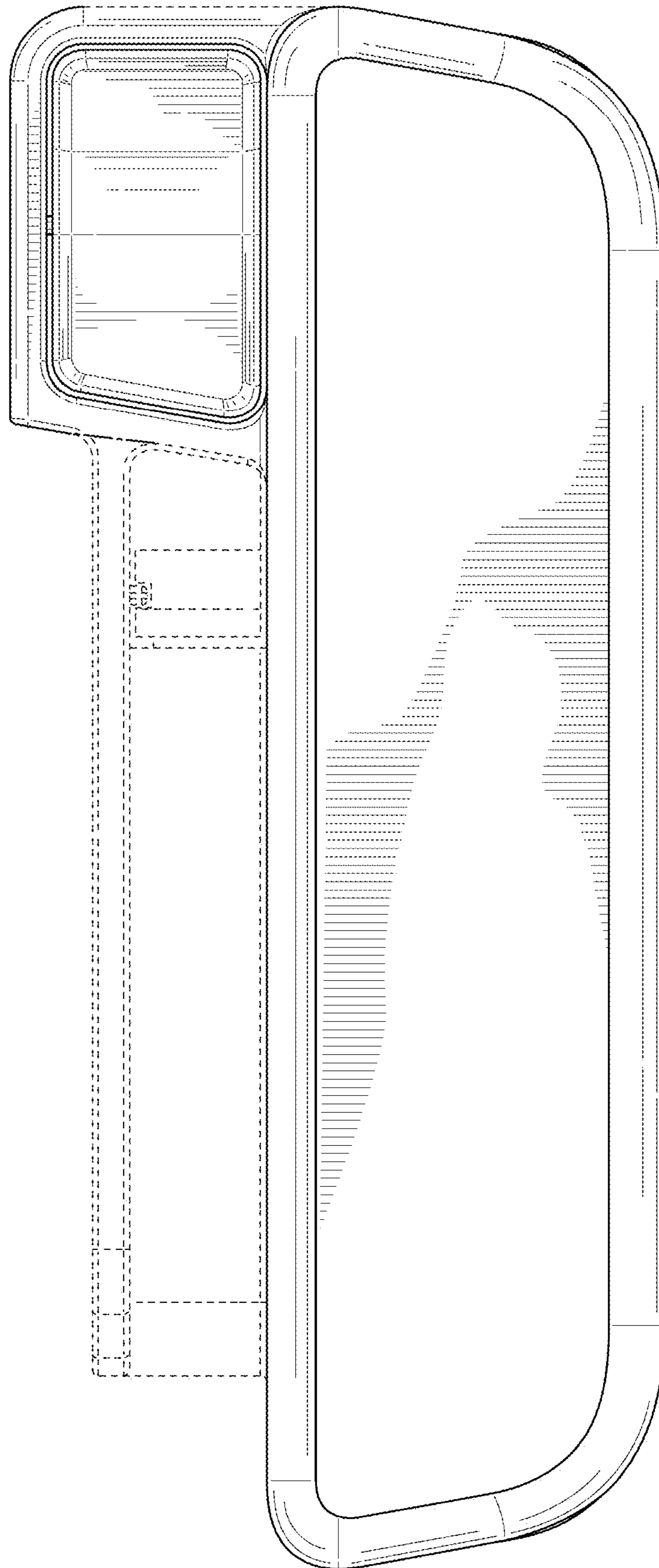


FIG. 5

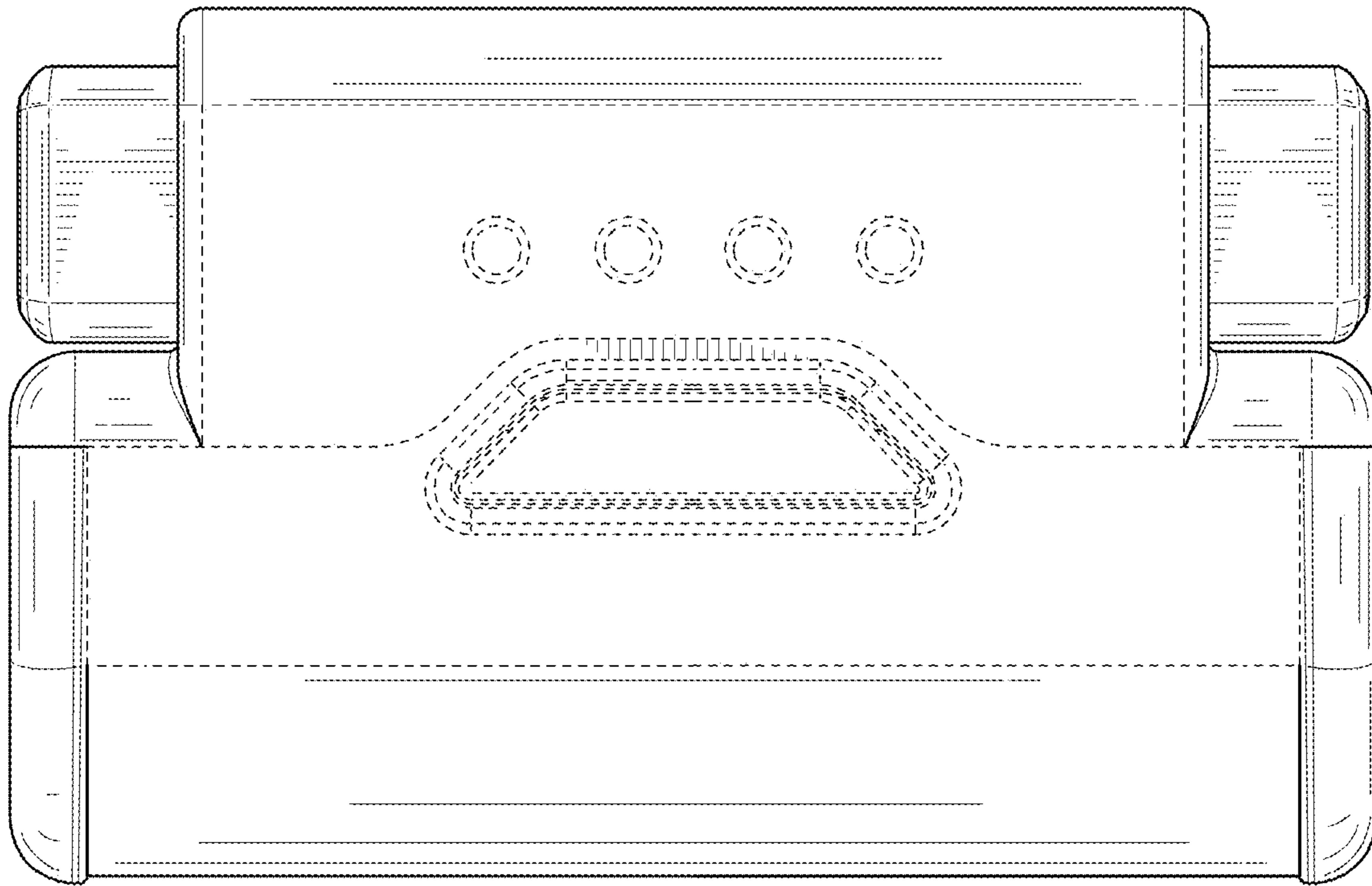


FIG. 6

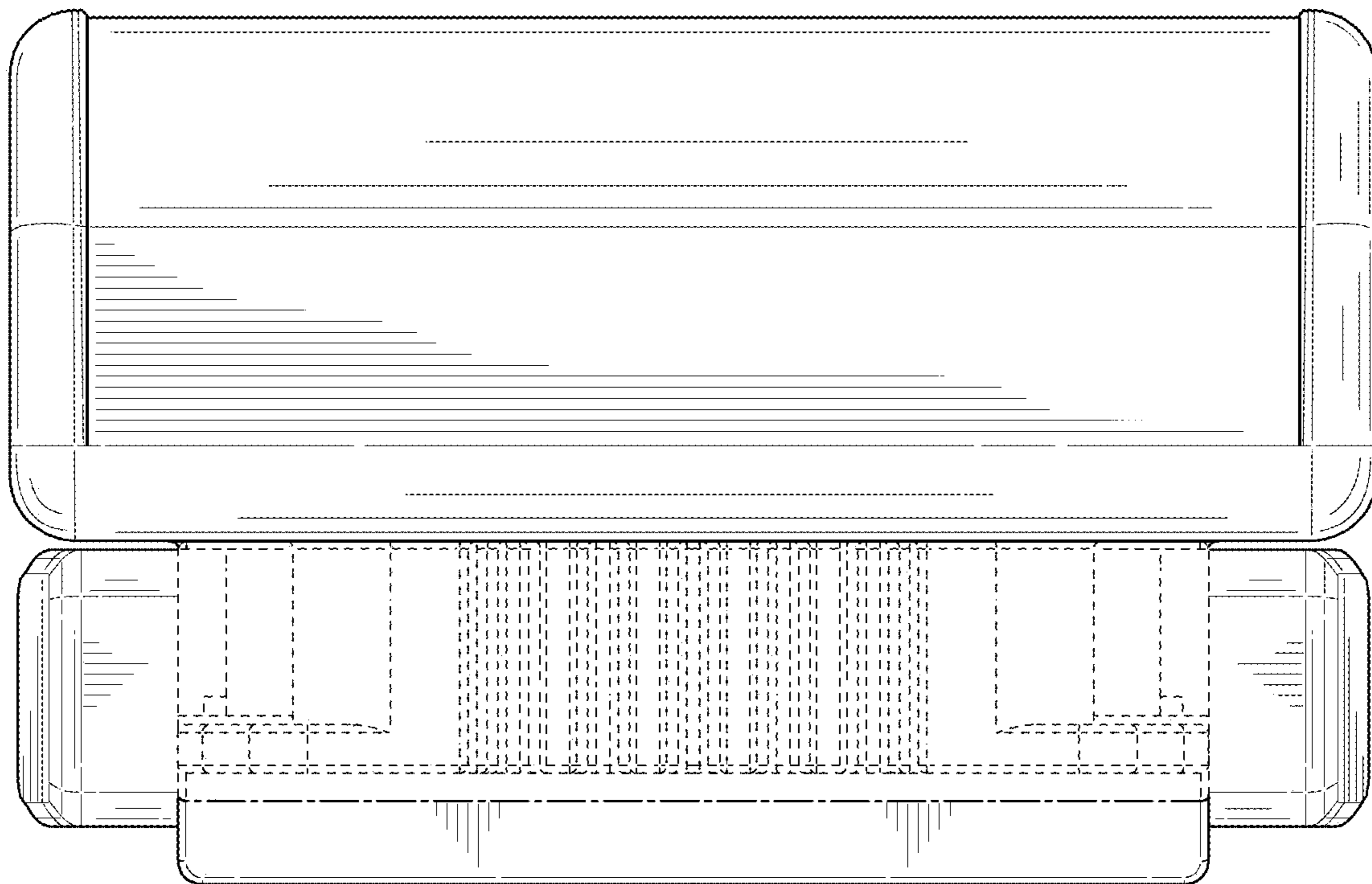


FIG. 7



FIG. 8

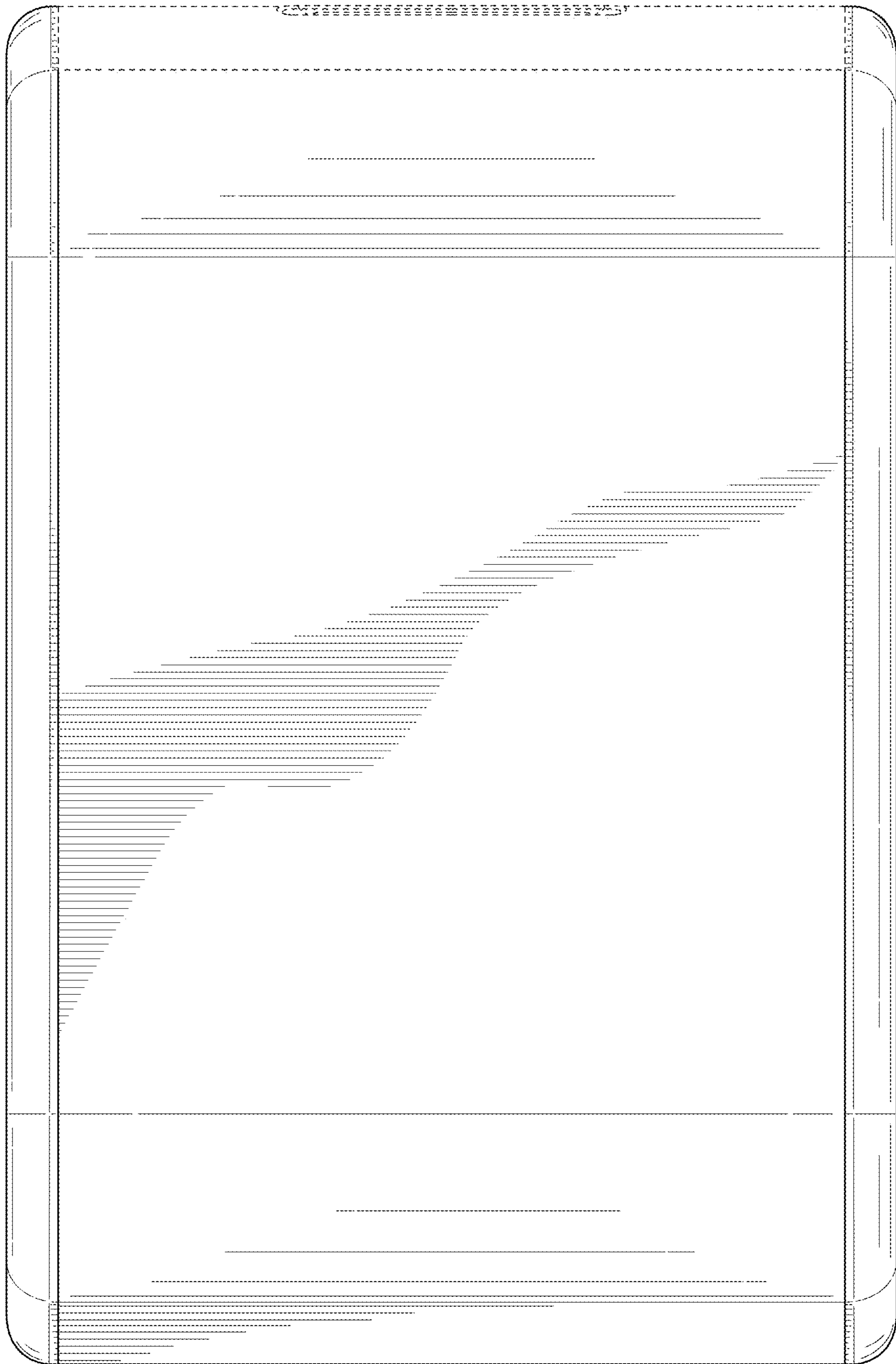


FIG. 9

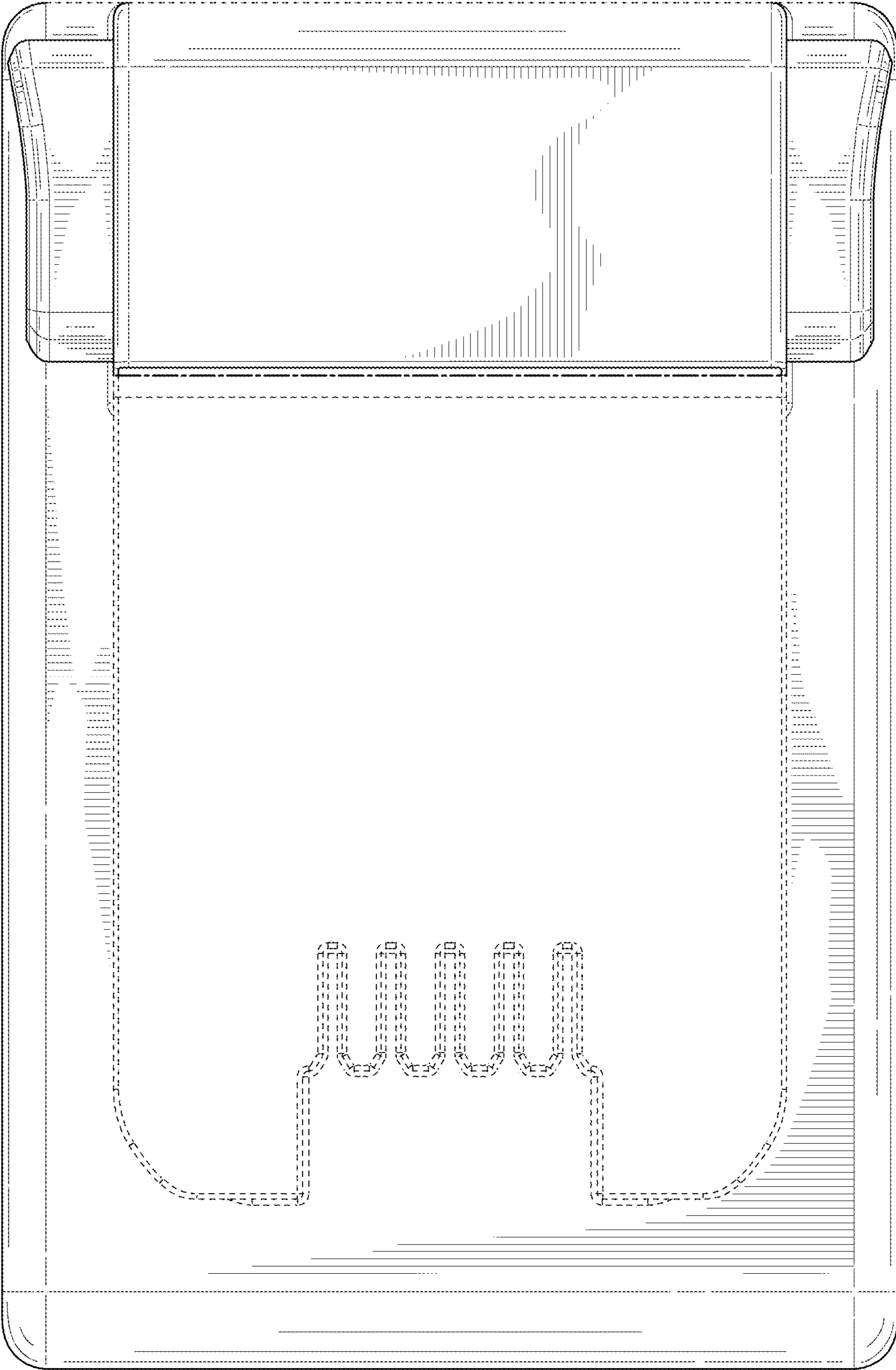


FIG. 10

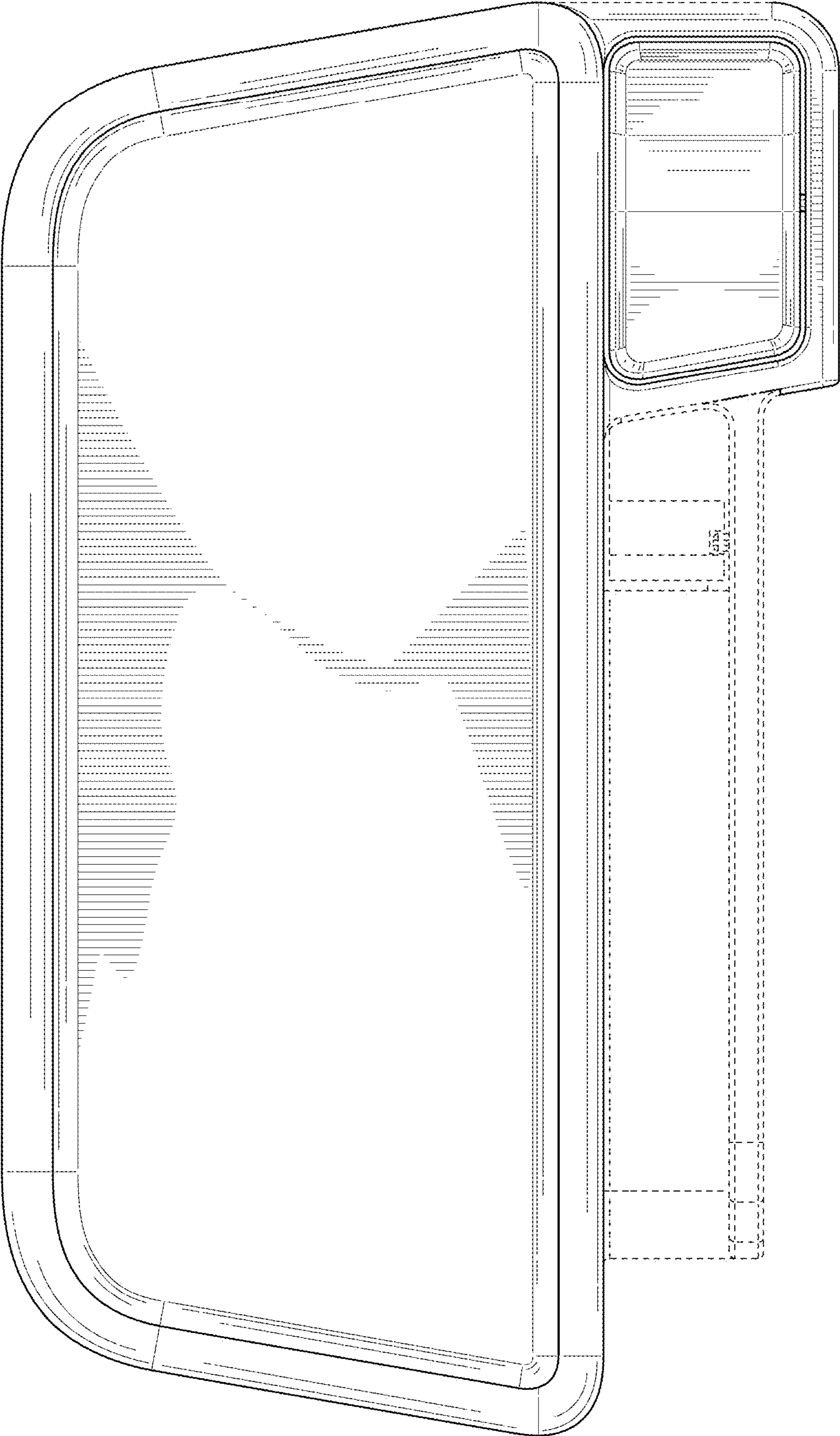


FIG. 11

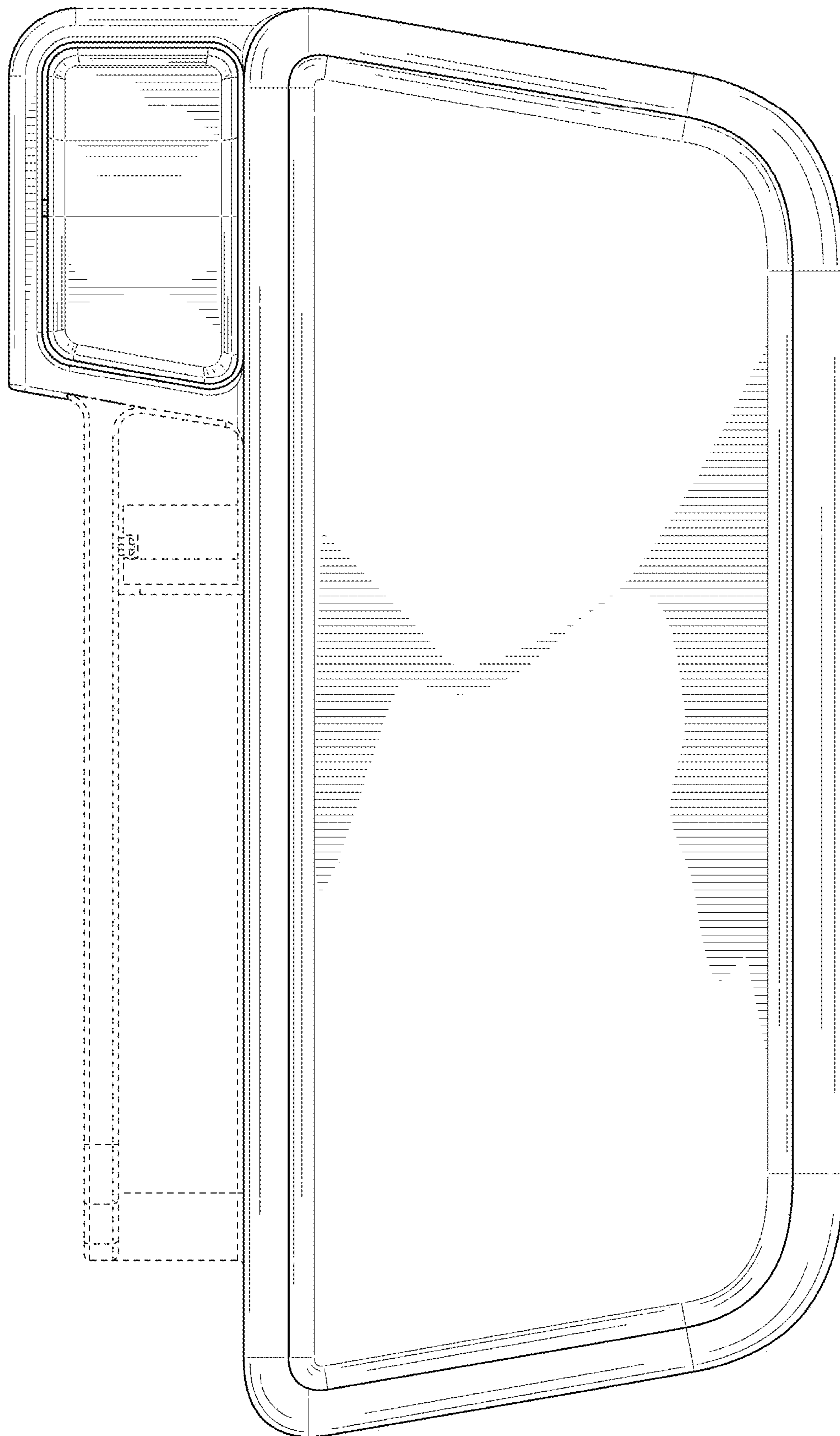


FIG. 12

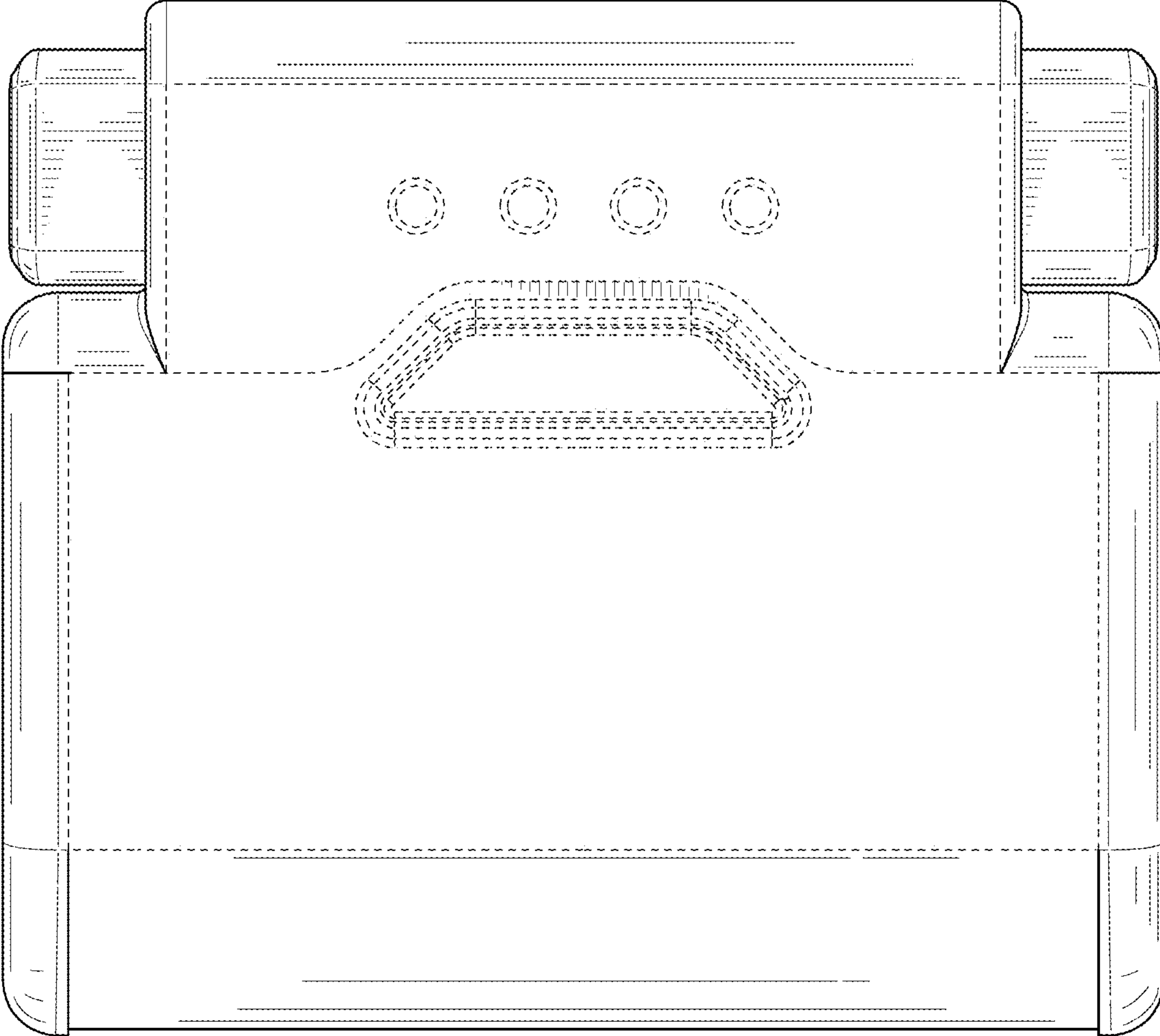


FIG. 13

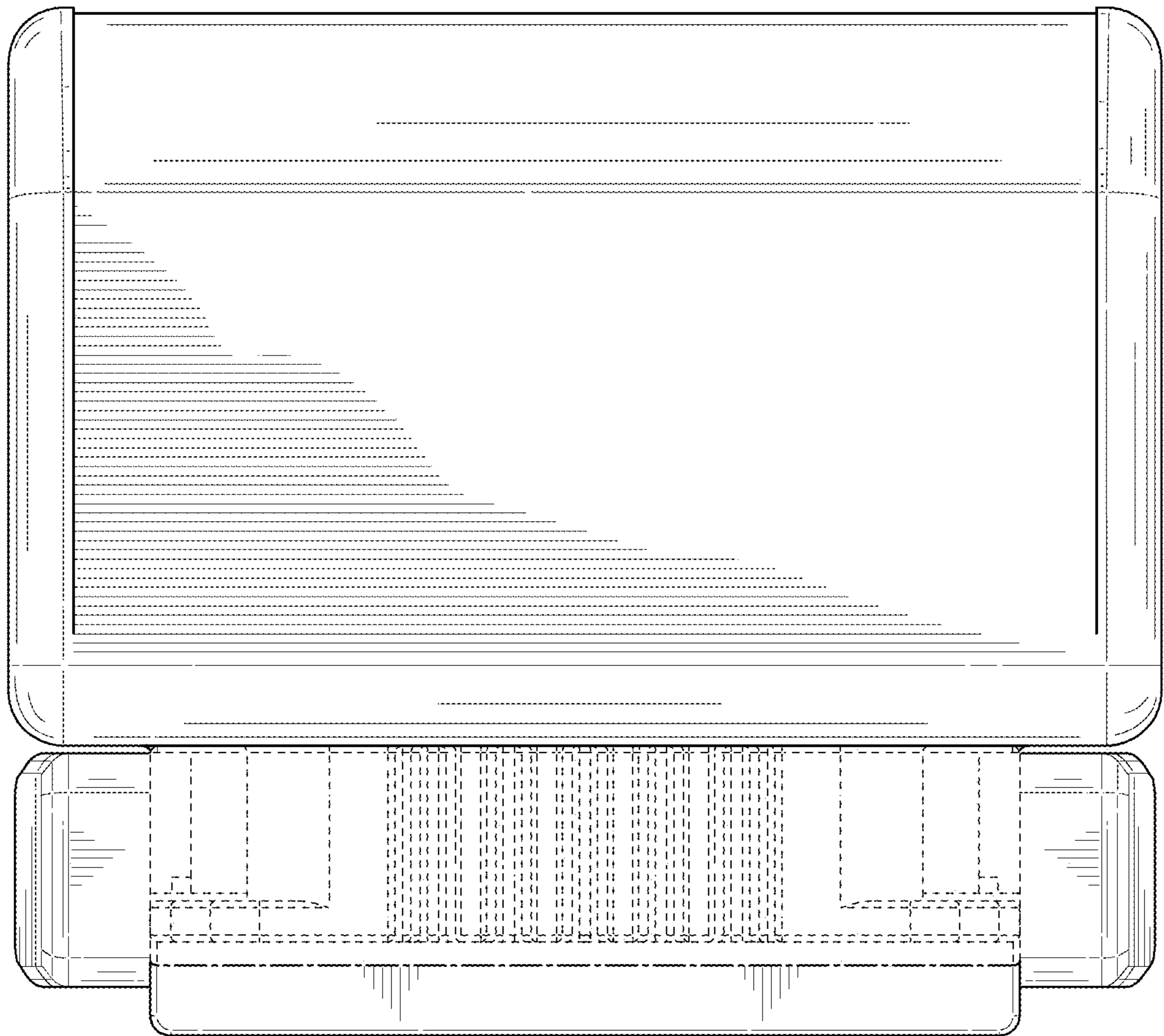


FIG. 14