US00D897306S

(12) United States Design Patent

Tompson et al.

(10) Patent No.: US D897,306 S
(45) Date of Patent: ** Sep. 29, 2020

(54) **RADIO CABLE SHROUD**

(71) Applicant: **ConcealFab Corporation**, Colorado Springs, CO (US)

(72) Inventors: **Carl Tompson**, Colorado Springs, CO (US); **Oliver Carson**, Colorado Springs, CO (US); **Amber Bartley**, Colorado Springs, CO (US); **Jonathan Morris**, Colorado Springs, CO (US)

(73) Assignee: **ConcealFab Corporation**, Colorado Springs, CO (US)

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

(21) Appl. No.: **29/724,758**

(22) Filed: **Feb. 19, 2020**

(51) **LOC (12) Cl.** **14-03**
(52) **U.S. Cl.**
USPC **D14/140.6**; D13/184
(58) **Field of Classification Search**
USPC ... D14/137, 140, 140.1, 140.2, 140.3, 140.4, D14/140.5, 140.6, 142, 155, 168, 188, D14/217, 230, 238, 240, 242, 243, 251, D14/255, 299, 496, 356, 358, 236; D13/123, 152, 154, 156, 158, 160, 173, D13/177, 184, 199, 101, 110, 111, 112, D13/118, 122; D10/46, 75, 103, 104.1, D10/121, 106.1, 106.6, 106.3, 109.1, D10/109.2, 111, 114.1, 114.2, 114.6, D10/114.8
CPC H04W 88/005; H04M 1/03; H04M 1/04; H04M 1/15; H04B 1/38; H04B 1/3838; H04B 1/3888; H01Q 19/02; H01Q 19/021; H01Q 1/02; H01Q 1/12; H01Q 1/1228; H01Q 1/1242; H01Q 1/245; H01Q 1/246; H01Q 1/42
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D208,042	S	*	7/1967	Jacoby	D10/121
D208,552	S	*	9/1967	Lehmer	D13/184
3,482,253	A	*	12/1969	Zucconi	H01Q 1/42 343/834
D254,002	S	*	1/1980	Schafer	D13/184
D274,721	S	*	7/1984	Smith	D14/240

(Continued)

FOREIGN PATENT DOCUMENTS

BR	3020190034611		7/2019
WO	2019043046	A1	8/2018

OTHER PUBLICATIONS

5G Cable Shrouds (ConcealFab, Inc.) [online] 4 pgs. 2019. [retrieved Apr. 27, 2020]. https://concealfab.com/product/5g-cable-shrouds/.*

(Continued)

Primary Examiner — Marie D. Fast Horse
(74) *Attorney, Agent, or Firm* — Mehrman Law Office; Michael J. Mehrman

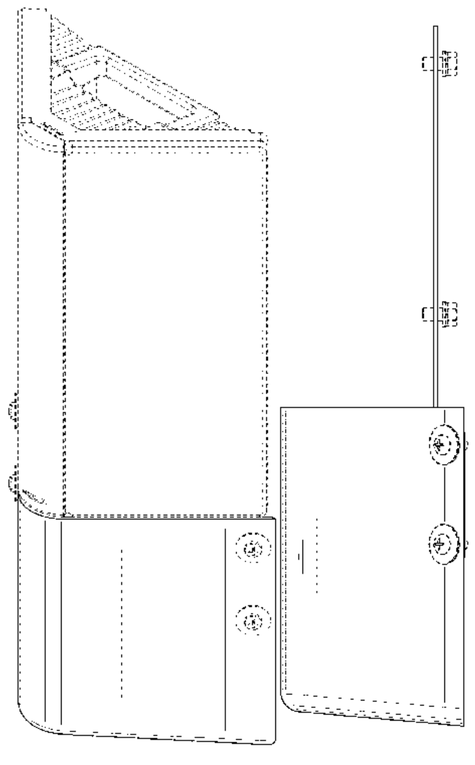
(57) **CLAIM**

The ornamental design for a radio cable shroud, as shown and described herein.

DESCRIPTION

FIG. **1** is a perspective view of a radio cable shroud, showing the new design in use with environmental structure;
FIG. **2** is a front elevational view thereof;
FIG. **3** is a rear elevational view thereof;
FIG. **4** is a left side elevational view thereof;
FIG. **5** is a right side elevational view thereof;
FIG. **6** is a top view of thereof; and,
FIG. **7** is a bottom view thereof.

(Continued)



The broken lines in the drawings depict environmental structure that forms no part of the claim.

1 Claim, 7 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

D297,136	S	*	8/1988	Collins	D13/184
D299,130	S	*	12/1988	Smith	D13/184
D299,465	S	*	1/1989	Helstab	D13/184
D301,333	S	*	5/1989	Bongard	D13/156
D303,656	S	*	9/1989	Wong	D13/156
D304,339	S	*	10/1989	Collins	D14/140.6
D305,334	S	*	1/1990	Marr	D14/230
D306,733	S	*	3/1990	Hebditch	379/457
D324,204	S	*	2/1992	Wright	D13/154
D325,570	S	*	4/1992	Jones	D10/121
D334,937	S	*	4/1993	Kerr	D13/184
D336,293	S	*	6/1993	Morano	D14/140
D339,809	S	*	9/1993	Ron	D13/108
D342,250	S	*	12/1993	Beaumont	D13/184
D345,145	S	*	3/1994	Fogg	D13/184
D345,933	S	*	4/1994	Joyce, Jr.	D10/109.1
D351,170	S	*	10/1994	Hanlon	D14/240
D357,762	S	*	4/1995	Douglas	D10/104.1
D358,370	S	*	5/1995	Guppy	D13/184
D377,339	S	*	1/1997	Beruscha	D14/242
D377,652	S	*	1/1997	Sarkiniemi	D13/184
5,619,217	A	*	4/1997	Mailandt	H01Q 1/42 343/872
D389,270	S	*	1/1998	Malmsten	D12/182
D390,536	S	*	2/1998	Austin	D13/156
D394,041	S	*	5/1998	Spriester	D13/123
D394,124	S	*	5/1998	Mackert	D10/104.1
D398,611	S		9/1998	Read	
D400,889	S	*	11/1998	Heiligenstein	D14/230
D407,384	S	*	3/1999	Badgio	D13/156
D408,369	S	*	4/1999	Belinky	D13/184
D420,300	S	*	2/2000	George	D10/103
D422,283	S	*	4/2000	Fennelly	D14/240
D429,720	S		8/2000	Strand	
D430,865	S	*	9/2000	Cosley	D13/184
D431,230	S	*	9/2000	Began	D13/184
D434,339	S	*	11/2000	Siller	D10/106.1
D434,736	S	*	12/2000	Jacks	D13/184
D436,091	S	*	1/2001	Anderson	D14/146
D436,585	S	*	1/2001	Nuk	D14/155
6,304,221	B1	*	10/2001	Brown	H01Q 1/12 224/197
D450,686	S	*	11/2001	Beaumont	D13/184
D458,172	S	*	6/2002	Salbashian, Sr.	D10/99
D462,675	S	*	9/2002	Kusz	D14/140.6
D478,558	S	*	8/2003	Sparks	D13/184
D482,665	S	*	11/2003	Bailey	D13/182
D483,748	S	*	12/2003	Alviar	D14/240
D489,041	S	*	4/2004	Chen	D13/184
D498,211	S	*	11/2004	Thibault	D13/155
6,944,011	B2	*	9/2005	Krajecki	H05K 5/0217 211/126.15
D512,050	S	*	11/2005	Verding	D14/240
D524,800	S	*	7/2006	Burzynski	D14/188
D526,968	S	*	8/2006	Castaldo	D13/184
D536,670	S	*	2/2007	Mahoney	D13/151
D543,514	S	*	5/2007	Katz	D13/184
D553,586	S	*	10/2007	Devenish, III	D13/184
D618,326	S	*	6/2010	Galjaardt	D23/322
D620,898	S	*	8/2010	Wang	G02B 6/4441 D13/184
D620,899	S	*	8/2010	Wang	D13/184
7,782,268	B2		8/2010	Carroll et al.	
D631,448	S	*	1/2011	Wang	G02B 6/4441 D13/184
D631,859	S	*	2/2011	Wang	D13/184
D653,975	S	*	2/2012	Anderson	D10/103
8,228,255	B2	*	7/2012	Mao	H01Q 1/526 343/841
D697,900	S		1/2014	Yang et al.	
8,786,514	B2	*	7/2014	Dickie	H01Q 1/42 343/720
9,099,860	B2		8/2015	Martinez et al.	
D741,285	S	*	10/2015	Boynton	D14/188
9,172,421	B2	*	10/2015	Colapietro	H01Q 1/1228
D751,610	S		3/2016	Serrurier et al.	
D759,637	S	*	6/2016	Maxam	D14/358
D768,608	S	*	10/2016	Moon	D14/240
D790,548	S	*	6/2017	Buel	D14/240
9,685,713	B2		6/2017	Takahashi	
D805,503	S		12/2017	Corp et al.	
10,103,421	B1	*	10/2018	Alexander	H04W 88/08
D832,727	S	*	11/2018	Rozgonyi	D13/156
10,135,130	B1	*	11/2018	Bouchard	H01Q 1/42
D842,280	S	*	3/2019	Montgomery	D14/230
D843,329	S	*	3/2019	Baldwin	D13/155
D844,573	S		4/2019	Hoffknecht et al.	
D862,433	S	*	10/2019	Song	D14/240
10,476,138	B2	*	11/2019	Gonsowski	H01Q 1/1228
D871,382	S	*	12/2019	Kwak	D14/240
D871,384	S	*	12/2019	Lim	D14/240
D872,068	S	*	1/2020	Lim	D14/240
D880,444	S	*	4/2020	Bembridge	D14/140.6
2002/0108771	A1	*	8/2002	Fu-Chung	H02G 3/30 174/117 F
2015/0371571	A1	*	12/2015	Hager	H04W 88/08 348/552
2018/0108978	A1	*	4/2018	Gonsowski	H01Q 1/1228
2019/0080826	A1		3/2019	Kamensek et al.	
2019/0140347	A1	*	5/2019	Bouchard	H01Q 1/1228

OTHER PUBLICATIONS

Cell RRUS-32 Assem 10 updated. [online] 2 pgs. [retrieved Apr. 28, 2020] https://4fb81198-d1b8-41e2-982c-d9ca548110de.filesusr.com/ugd/bd8659_4c9b2cd2afcf4dcd8de739c7b0e726f6.pdf.*

COMMSCOPE, DC Surge Protection for 12 Remote RRH/ Integrated Antenna, Talley Inc.

Arlington, Paving the Way for Faster Mobile Speeds in Arlington, Jun. 26, 2019,Virginia.

Raycap, Small Cell Concealments Product Guide 2020, Oct. 25, 2019 (accessed).

Raycap, 5G Radio Shroud, Oct. 25, 2019 (accessed).

* cited by examiner

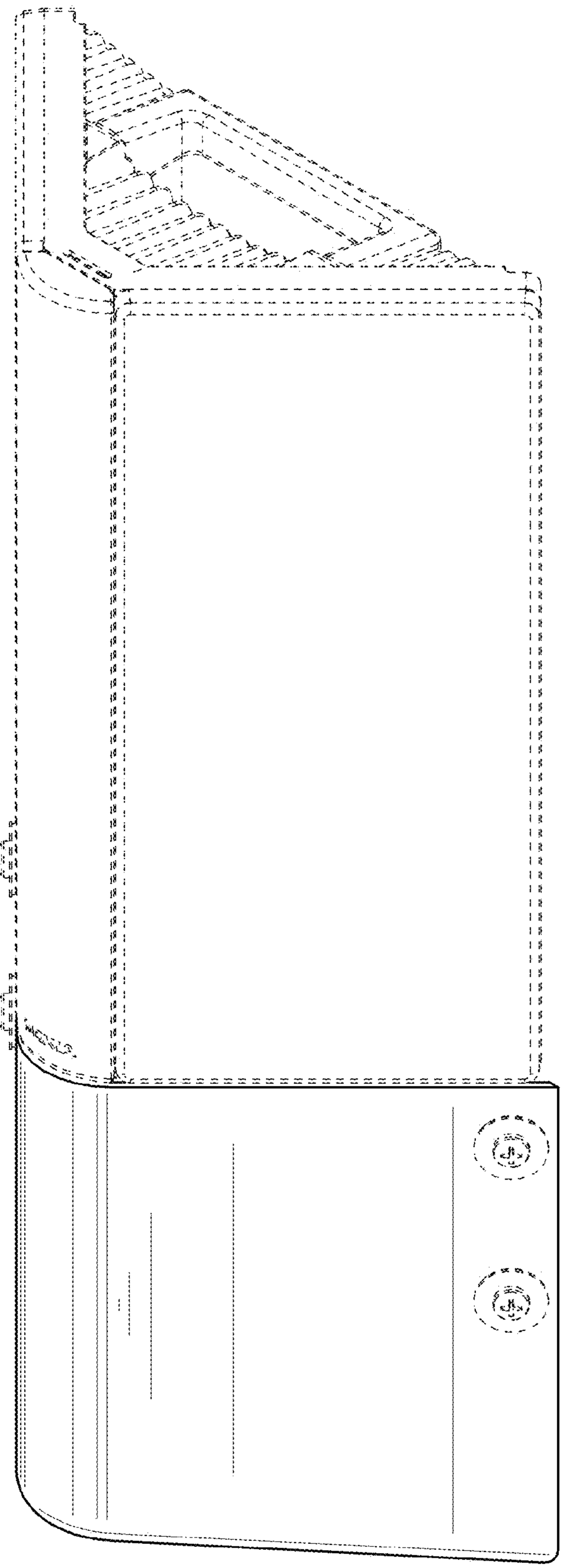


FIG. 1

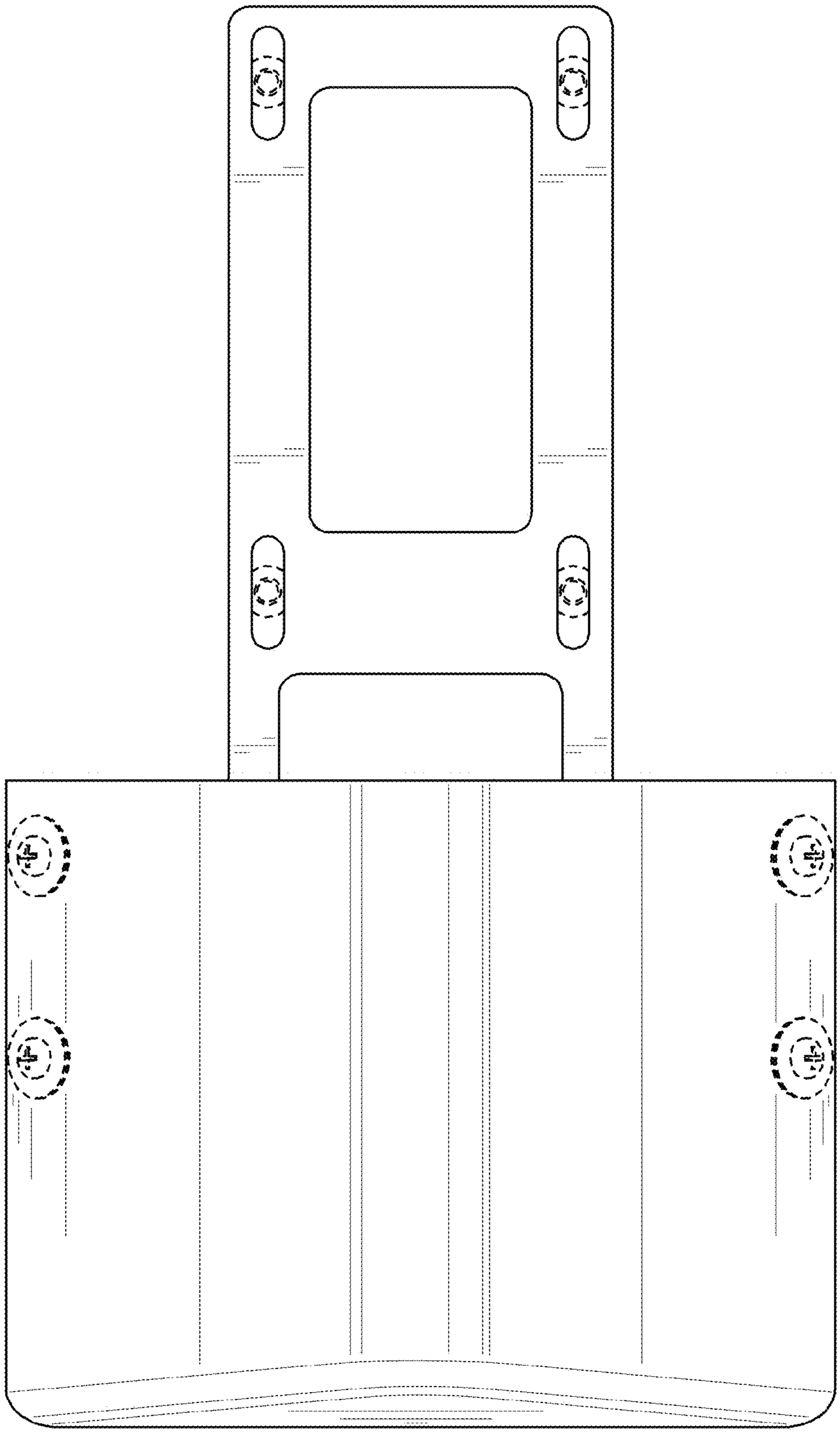


FIG. 2

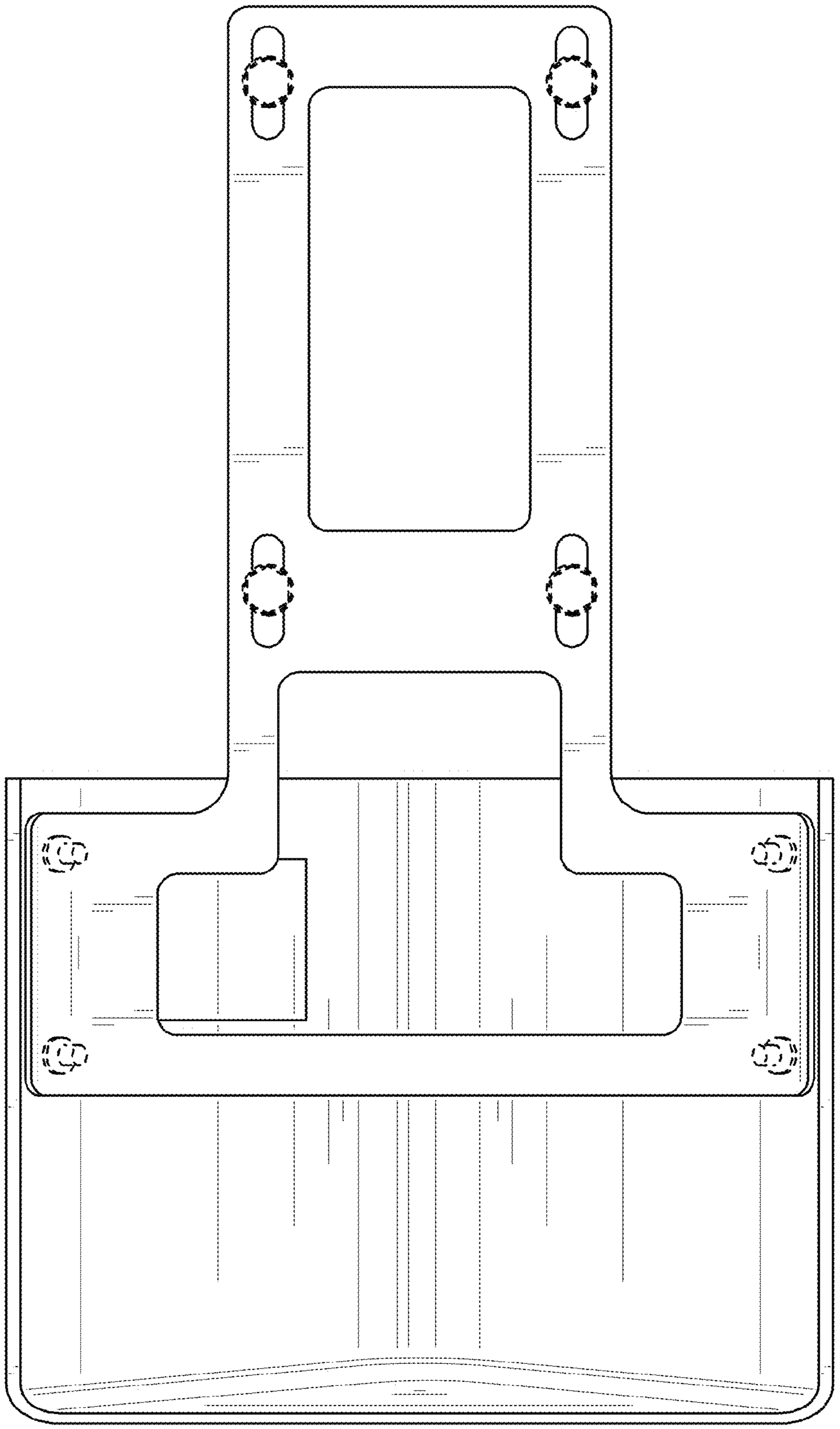


FIG. 3

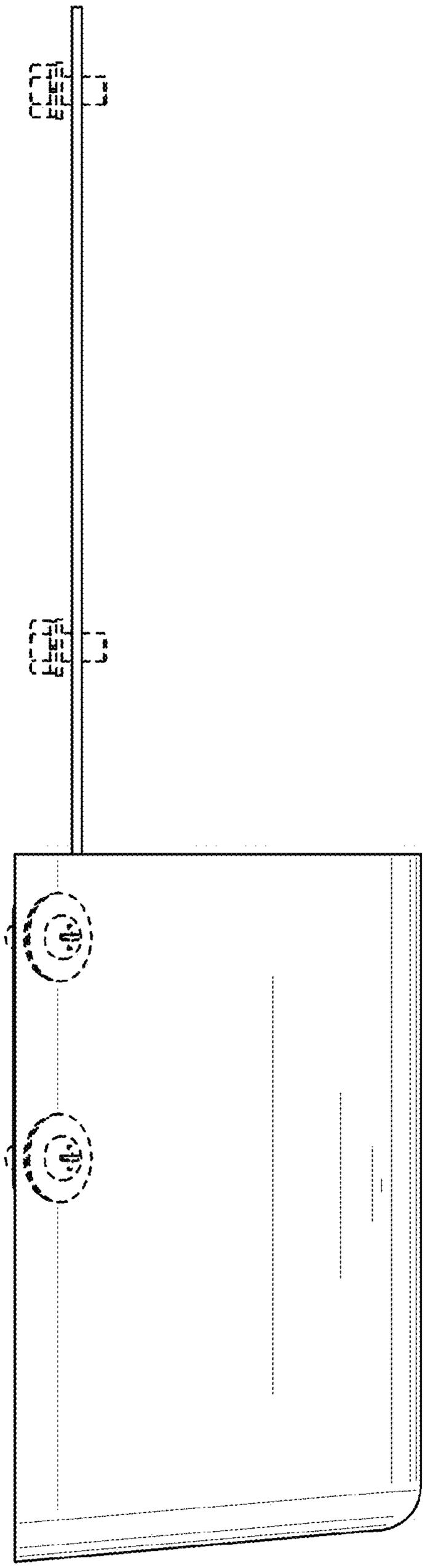


FIG. 4

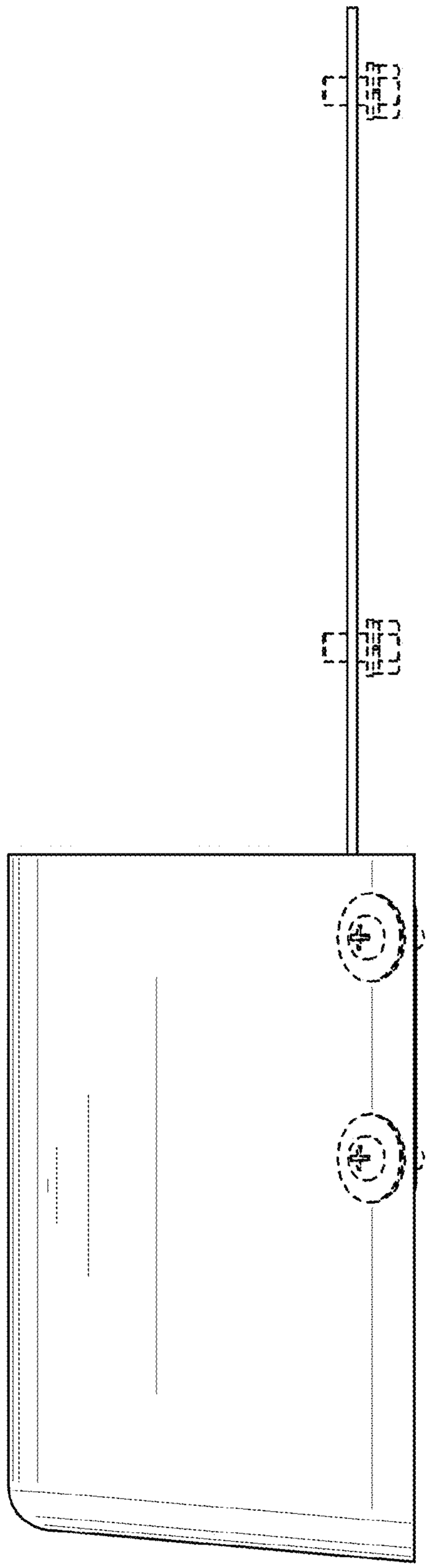


FIG. 5

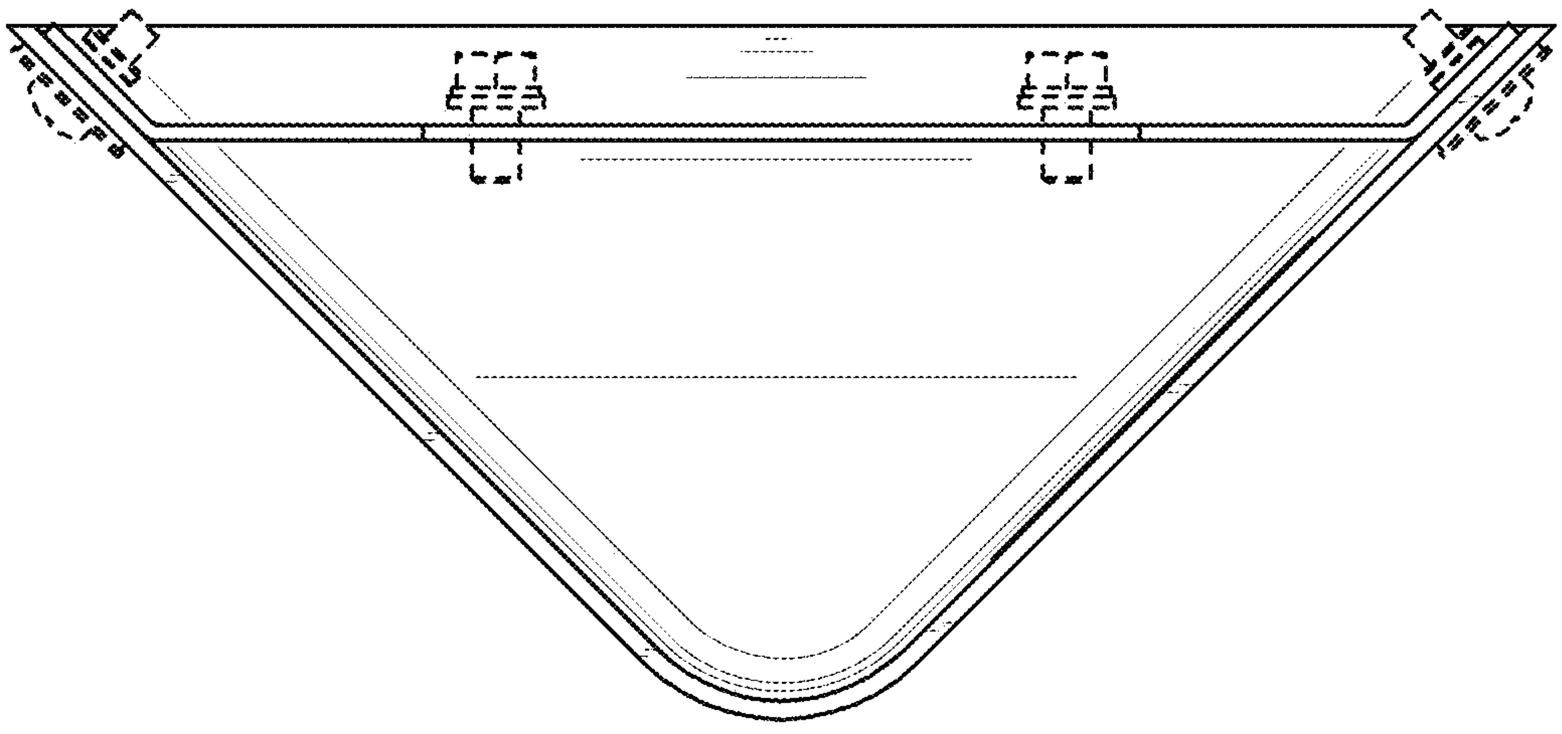


FIG. 6

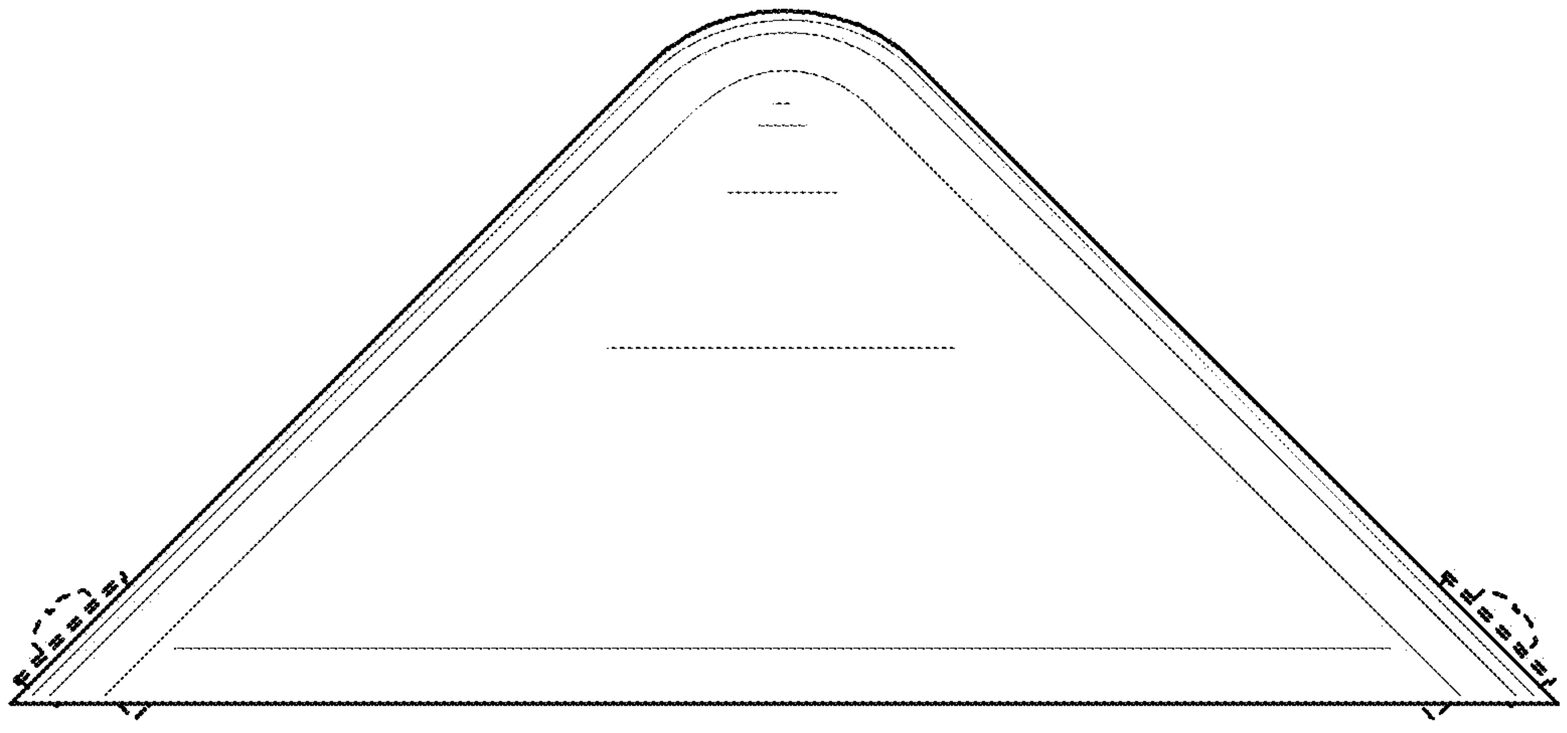


FIG. 7