



US00D918834S

(12) **United States Design Patent** (10) **Patent No.:** **US D918,834 S**  
**Ashley et al.** (45) **Date of Patent:** **\*\* May 11, 2021**

(54) **POWER INTERFACE MODULE**

(56) **References Cited**

(71) Applicant: **M-Edge International Corporation**,  
Hanover, MD (US)

U.S. PATENT DOCUMENTS

(72) Inventors: **Adam R. Ashley**, Crownsville, MD  
(US); **Joshua B. King**, Linthicum  
Heights, MD (US); **Serge H. Seferian**,  
Chicago, IL (US)

D363,064	S	*	10/1995	Rogov	.....	D14/433
D381,640	S	*	7/1997	Drennan	.....	D14/407
D470,848	S	*	2/2003	Morooka	.....	D14/433
D478,086	S	*	8/2003	Chuang	.....	D13/110
D563,943	S	*	3/2008	Watanabe	.....	D14/188
D570,845	S	*	6/2008	Liu	.....	D14/433
D581,428	S	*	11/2008	Huang	.....	D14/356
D612,329	S	*	3/2010	Guccione	.....	D13/108
D629,746	S	*	12/2010	Workman	.....	D13/103
D651,564	S	*	1/2012	Workman	.....	D13/108
D682,777	S	*	5/2013	Gupta	.....	D13/103
D692,378	S	*	10/2013	Esses	.....	D13/110
8,593,108	B2		11/2013	Ferber et al.		

(73) Assignee: **M-Edge International Corporation**,  
Hanover, MD (US)

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

(Continued)

(21) Appl. No.: **29/649,671**

*Primary Examiner* — Rosemary K Tarcza

(22) Filed: **May 31, 2018**

*Assistant Examiner* — Christy M Nemeth

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

(74) *Attorney, Agent, or Firm* — Christopher J. Scott

(52) **U.S. Cl.**

USPC ..... **D13/110**

(58) **Field of Classification Search**

USPC ..... D13/103, 107, 108, 110, 133,

D13/137.1–137.4, 138.1–138.2,

D13/139.1–139.8, 146, 147, 151–156,

D13/173, 177, 199; D14/432, 433, 435.1,

D14/250; D23/231, 232; D15/7–9;

D8/350, 353–356

CPC ..... H01R 11/00; H01R 9/00; H01R 13/00;

H01R 13/04; H01R 13/10; H01R

13/6666; H01R 13/6675; H01R 25/00;

H01R 25/006; H01H 2207/00; H01H

2207/022; 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; H02J

7/00; H02J 7/0003; H02J 7/0011; H02J

7/0013; H02J 7/0054; H02J 7/0055; H02J

7/0057; Y02T 10/7005; Y02T 10/705;

Y02T 10/7088; B60L 11/1809; B60L

11/1861

See application file for complete search history.

(57) **CLAIM**

The ornamental design for a power interface module, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a power interface module of our design;

FIG. 2 is a front plan thereof;

FIG. 3 is a rear plan thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a right side view thereof;

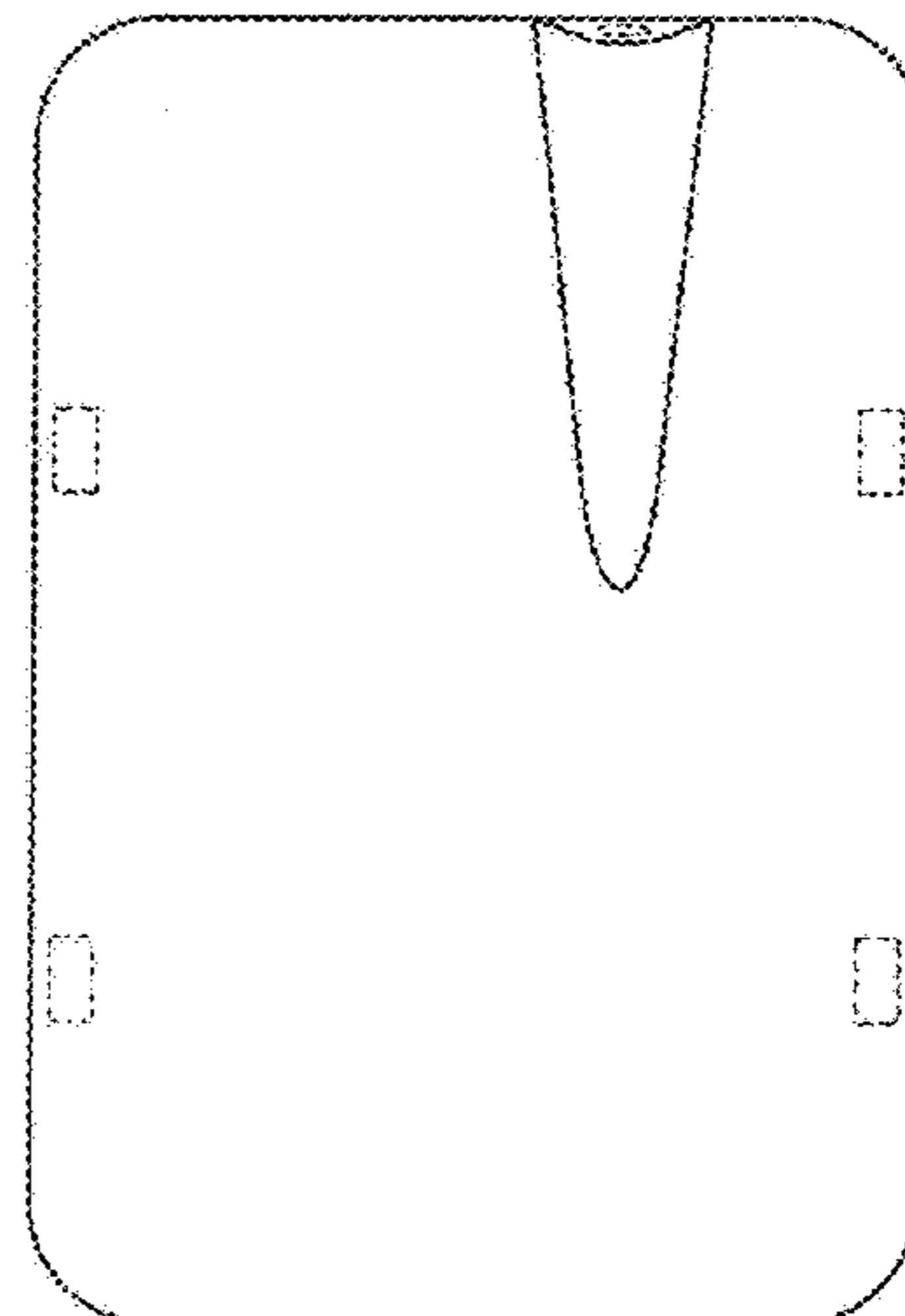
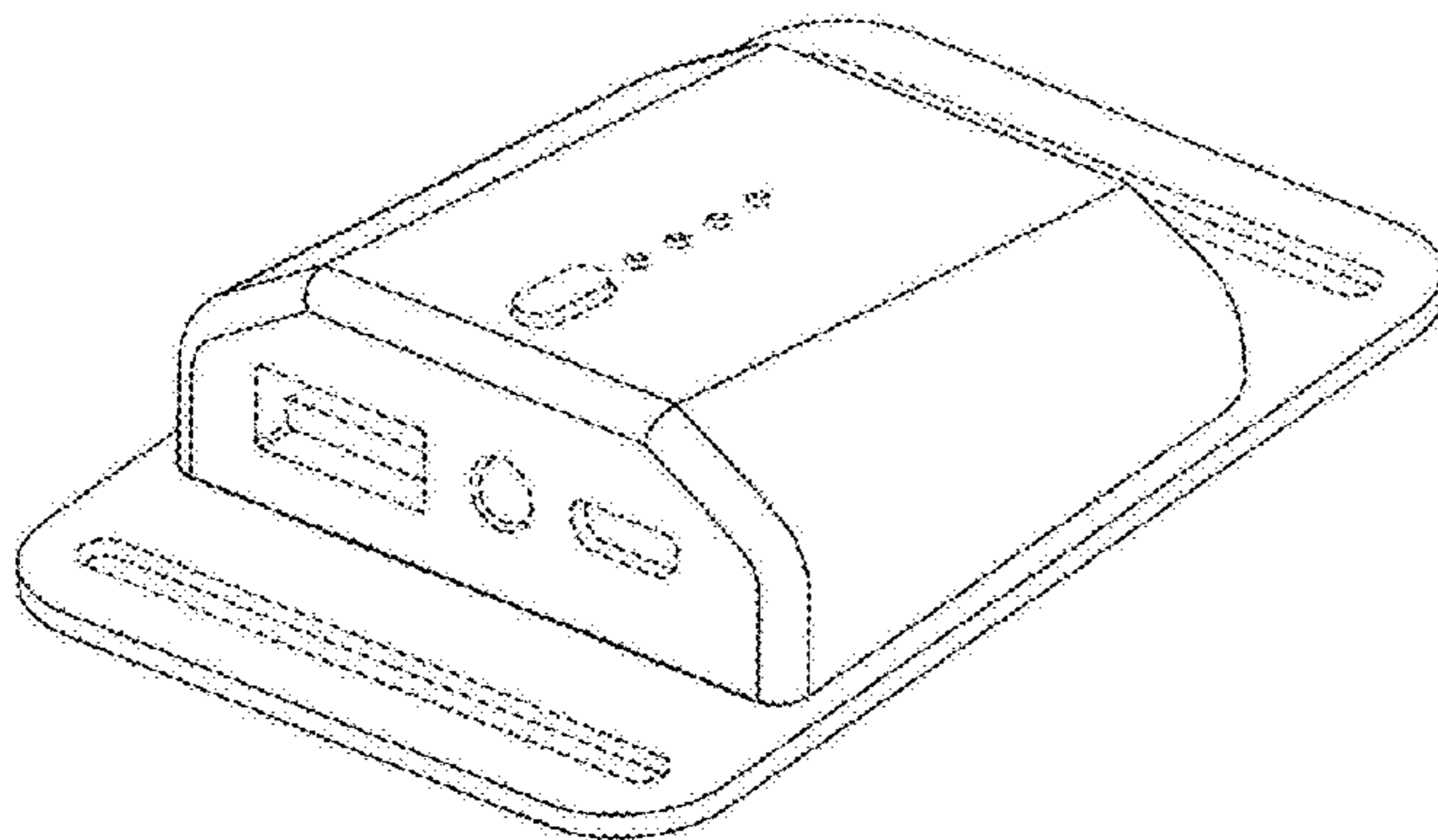
FIG. 6 is a bottom plan view thereof; and,

FIG. 7 is a top plan view thereof.

All broken lines depict functional features of the power interface module that form no part of the claimed design.

All broken lines and the portions within illustrate portions of the article that form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D701,490 S \* 3/2014 Inskip ..... D13/110  
 D701,838 S \* 4/2014 Esses ..... D13/108  
 D705,719 S \* 5/2014 Wong ..... D13/103  
 D708,571 S \* 7/2014 Ji ..... D13/103  
 D718,306 S \* 11/2014 Mehin ..... D14/372  
 D720,755 S \* 1/2015 Nokuo ..... D14/433  
 D751,985 S \* 3/2016 Curry ..... D13/103  
 D769,188 S \* 10/2016 Miller ..... D13/107  
 D769,877 S \* 10/2016 Akana ..... D14/433  
 D775,070 S \* 12/2016 Lei ..... D13/107  
 D786,790 S \* 5/2017 Miller ..... D13/108  
 D792,409 S \* 7/2017 Shim ..... D14/435  
 D797,044 S \* 9/2017 Miller ..... D13/108  
 D797,663 S \* 9/2017 Miller ..... D13/107  
 D797,747 S \* 9/2017 Xu ..... D14/433  
 D803,779 S \* 11/2017 Jung ..... D13/107  
 D808,972 S \* 1/2018 Magi ..... D14/436  
 D813,803 S \* 3/2018 Massar ..... D13/108  
 D814,412 S \* 4/2018 Georgiades ..... D13/108  
 D815,036 S \* 4/2018 Martorell ..... D13/108  
 D816,029 S \* 4/2018 Dai ..... D13/108  
 D816,606 S \* 5/2018 Georgiades ..... D13/108  
 D819,022 S \* 5/2018 Shim ..... D14/363  
 D821,972 S \* 7/2018 Wei ..... D13/108  
 D822,655 S \* 7/2018 Akana ..... D14/341  
 D824,328 S \* 7/2018 Liu ..... D13/108  
 D824,329 S \* 7/2018 Conocenti ..... D13/108  
 D825,455 S \* 8/2018 Liu ..... D13/103  
 D828,354 S \* 9/2018 Chuang ..... D14/433  
 D828,356 S \* 9/2018 Xie ..... D14/433  
 D829,213 S \* 9/2018 Szeremeta ..... D14/432  
 D829,719 S \* 10/2018 Shim ..... D14/435  
 D833,411 S \* 11/2018 Castle ..... D14/155  
 D836,543 S \* 12/2018 Sun ..... D13/108  
 D837,790 S \* 1/2019 Wu ..... D14/435  
 D838,669 S \* 1/2019 Miller ..... D13/108

D841,652 S \* 2/2019 Akana ..... D14/433  
 D843,998 S \* 3/2019 Bolotin ..... D14/365  
 10,224,728 B1 \* 3/2019 Ashley ..... H04B 1/385  
 D844,560 S \* 4/2019 Miller ..... D13/108  
 D847,112 S \* 4/2019 Castle ..... D14/155  
 D847,811 S \* 5/2019 Shim ..... D14/356  
 D851,586 S \* 6/2019 Liu ..... D13/108  
 D853,322 S \* 7/2019 Xu ..... D13/108  
 D853,396 S \* 7/2019 Kong ..... D14/434  
 D853,958 S \* 7/2019 Lei ..... D13/108  
 D853,959 S \* 7/2019 Miller ..... D13/108  
 D862,384 S \* 10/2019 Jen ..... D13/108  
 D862,385 S \* 10/2019 Turksu ..... D13/108  
 D864,861 S \* 10/2019 Roberts ..... D13/108  
 D864,964 S \* 10/2019 Lyu ..... D14/433  
 D864,966 S \* 10/2019 Sang ..... D14/434  
 D864,969 S \* 10/2019 Magi ..... D14/436  
 D864,970 S \* 10/2019 Magi ..... D14/436  
 D866,557 S \* 11/2019 Xiong ..... D14/433  
 D867,280 S \* 11/2019 Chen ..... D13/103  
 D867,368 S \* 11/2019 Magi ..... D14/436  
 D867,369 S \* 11/2019 Magi ..... D14/436  
 D869,392 S \* 12/2019 Roberts ..... D13/108  
 D869,411 S \* 12/2019 Wang ..... D14/125  
 D869,467 S \* 12/2019 Lin ..... D14/434  
 D871,324 S \* 12/2019 Roberts ..... D13/108  
 D871,329 S \* 12/2019 Chen ..... D13/108  
 D872,011 S \* 1/2020 Rao ..... D13/107  
 D872,012 S \* 1/2020 Rao ..... D13/107  
 D877,070 S \* 3/2020 Lemelson ..... D13/108  
 D879,716 S \* 3/2020 Chuang ..... D13/110  
 D881,807 S \* 4/2020 Xu ..... D13/108  
 10,629,943 B2 \* 4/2020 Pasma ..... H01M 10/0436  
 2009/0224722 A1 9/2009 Causey  
 2011/0006729 A1 1/2011 Matthias  
 2014/0274204 A1 9/2014 Williams  
 2016/0072323 A1 \* 3/2016 Miller ..... H02J 7/007  
 320/105  
 2017/0012448 A1 \* 1/2017 Miller ..... H02J 7/0031  
 \* cited by examiner

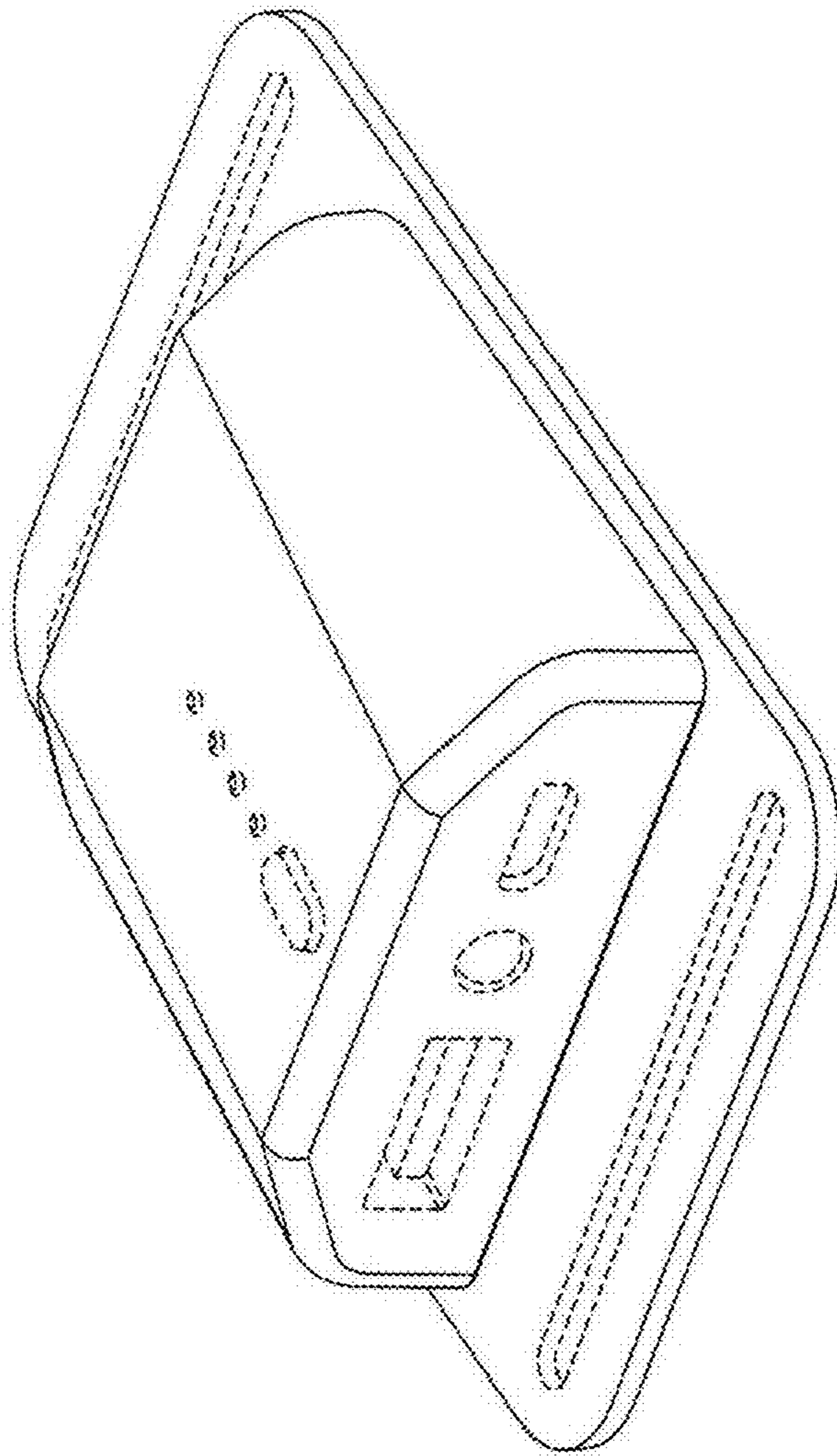


FIG. 1

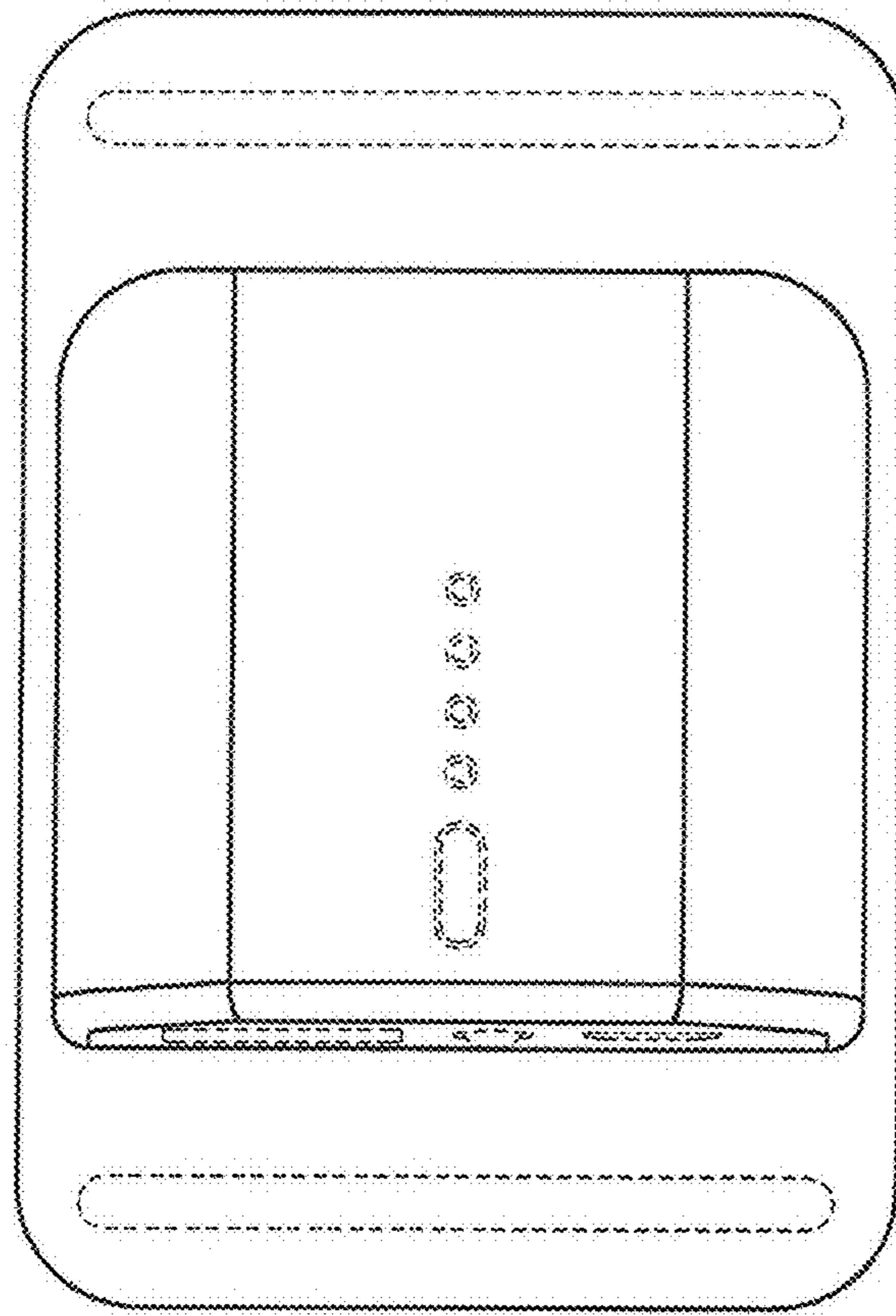


FIG. 2

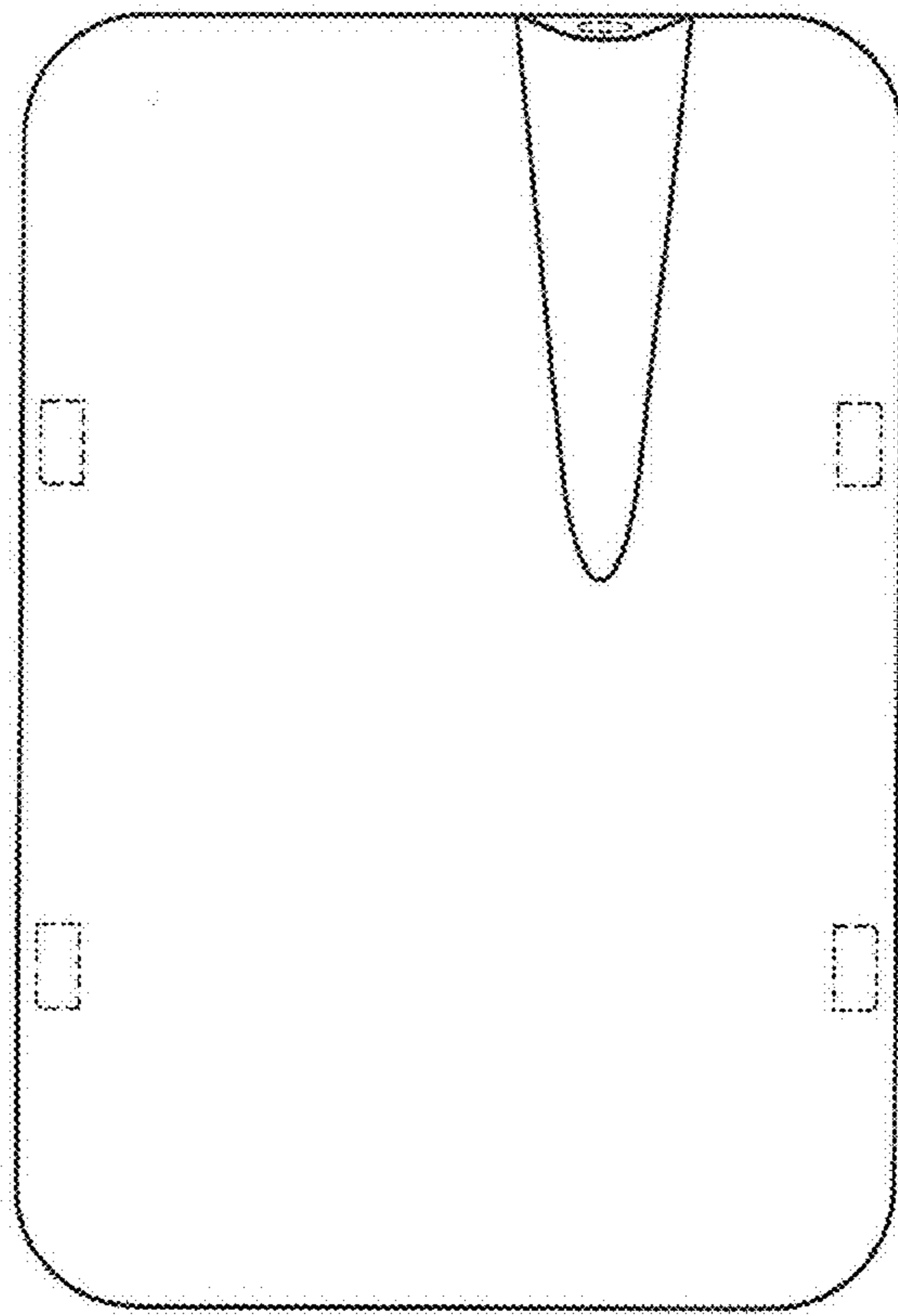


FIG. 3

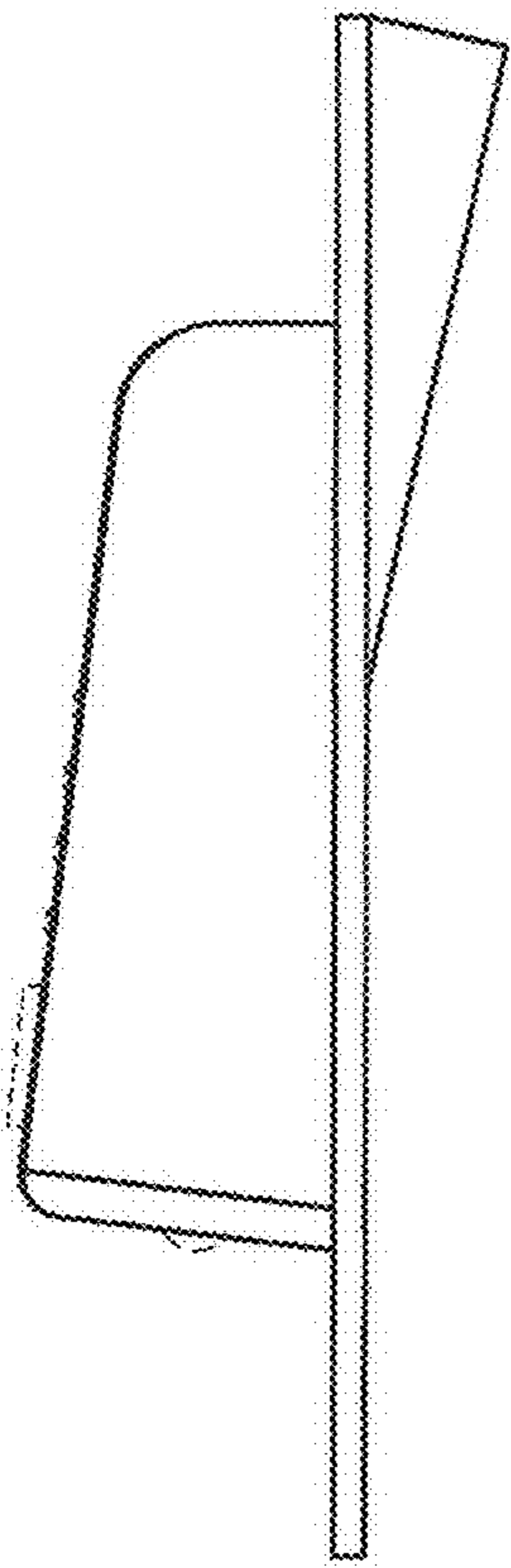


FIG. 4

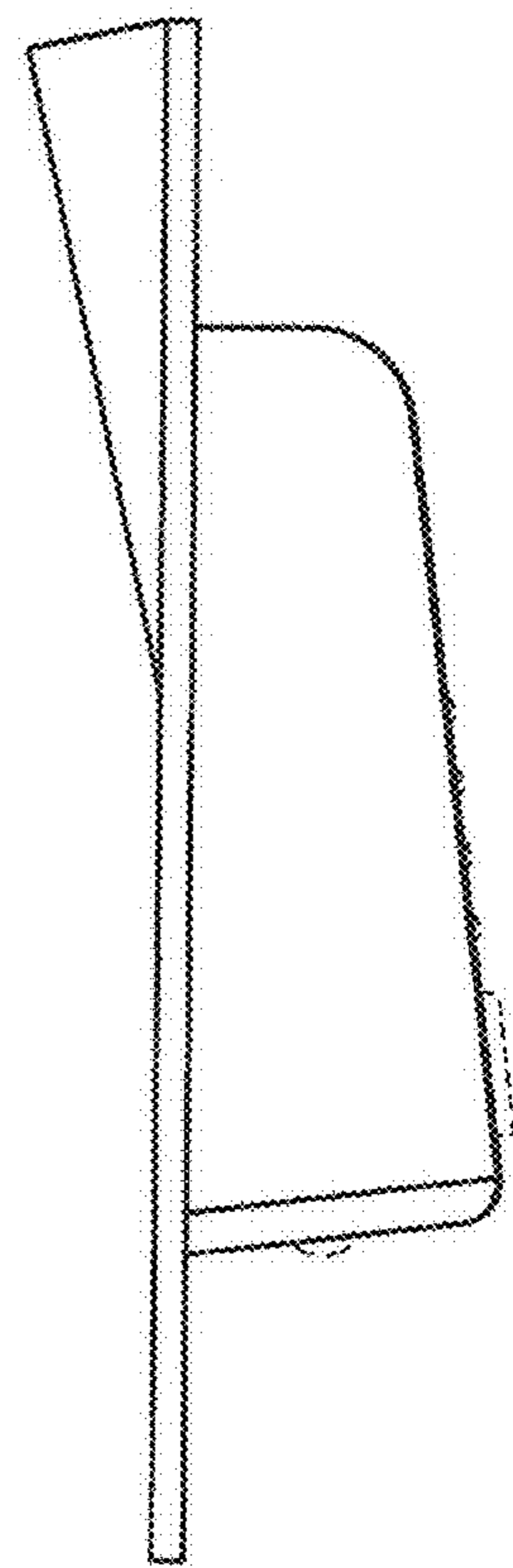


FIG. 5

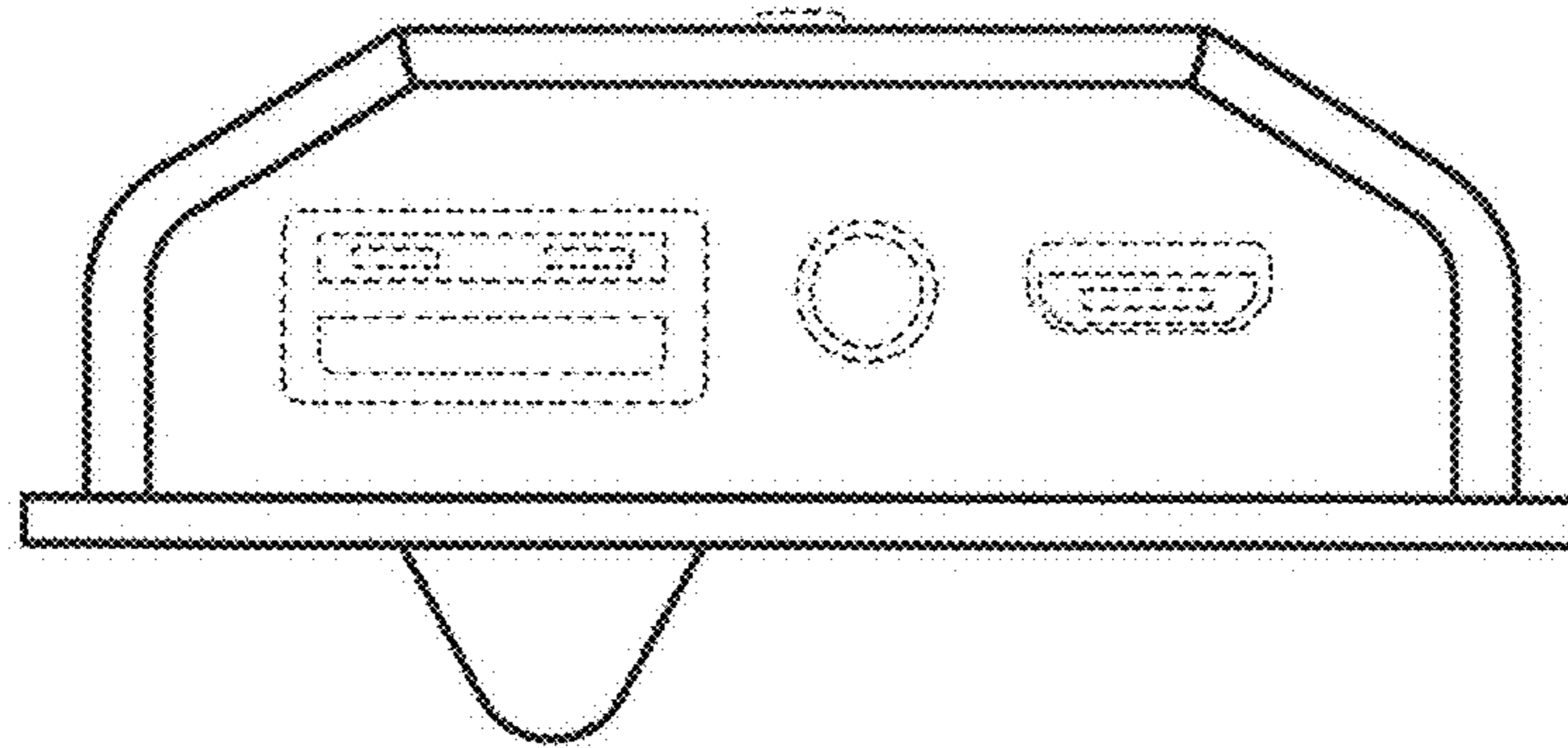


FIG. 6

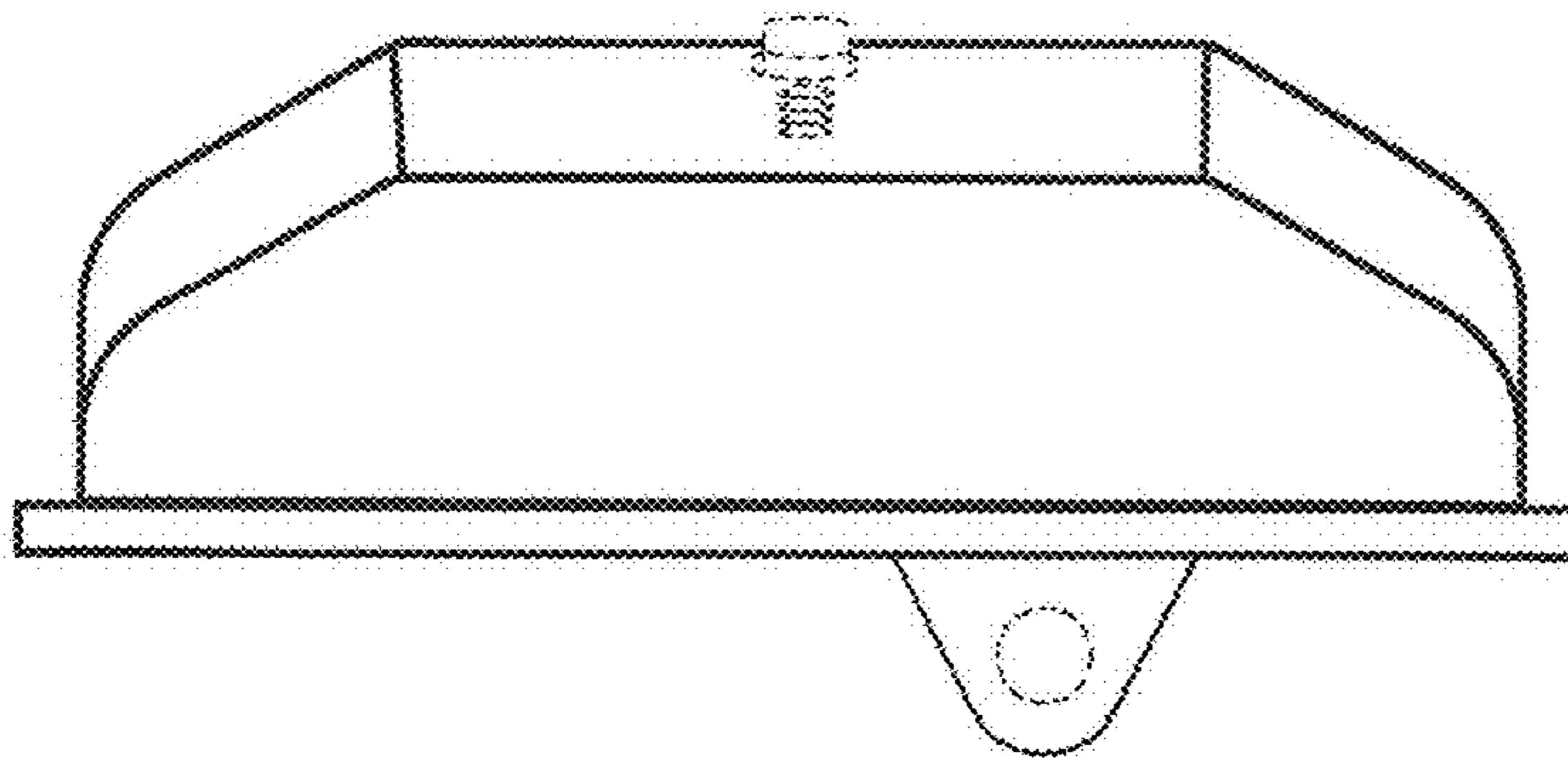


FIG. 7