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(12) **United States Design Patent**
Deng

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(54) **METAL DETECTOR CONTROL BOX**

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

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(51) **LOC (13) Cl.** **10-04**

(52) **U.S. Cl.**
USPC **D10/47**

(58) **Field of Classification Search**

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CPC G01B 21/08; G01B 11/002; G01B 7/26;
G01B 5/24; G01B 11/00; G01B 21/16;
G01V 3/10; G01V 3/087; G01V 3/081;
G01V 3/165; G01V 3/088; G01V 3/40;
G01V 3/08; G01V 3/15; G01V 3/104;
G01V 3/105; G01V 3/17; G06K 9/6215;
G01C 19/00; G01P 15/08; G06V 10/143;
H04W 4/029; H04W 4/02; G08B 21/24

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,969,528	A *	10/1999	Weaver	.....	G01V 3/108	324/243
D867,170	S *	11/2019	Deng	.....	D10/47	
D885,205	S *	5/2020	Deng	.....	D10/47	
D885,939	S *	6/2020	Deng	.....	D10/47	
D899,275	S *	10/2020	Ye	.....	D10/47	
D907,513	S *	1/2021	Qin	.....	D10/47	
D918,065	S	5/2021	Qin			
D920,139	S *	5/2021	Newport-Peace	.....	D10/47	
D927,995	S *	8/2021	Deng	.....	D10/47	
D929,244	S *	8/2021	Deng	.....	D10/47	
D959,300	S *	8/2022	Zhang	.....	D10/47	
2014/0139210	A1 *	5/2014	Walsh	.....	G01V 3/10	324/239
2014/0218036	A1 *	8/2014	Fry	.....	G01V 3/165	324/329

(Continued)

FOREIGN PATENT DOCUMENTS

CN 301994031 * 3/2012
CN 008982524-0001 * 4/2022
CN 307422826 * 4/2022

(Continued)

OTHER PUBLICATIONS

Homedex, Professional Metal Detector, Date first available 2022, [online] retrieved Sep. 13, 2022, available from https://www.amazon.com/dp/B08D96PSG8/ref=sspa_dk_detail_5?psc=1&pf_rd_p=3481f441-61ac-4028-9c1a-7f9ce8ec50c5&pf_rd_r=AQ7NBTJG6AQ3PACPQM9&pd_rd_wg=f4Epw&pd_rd_w=gYuA3&content-id=amzn1.sym.3481f441 (Year: 2022).*

(Continued)

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(57)

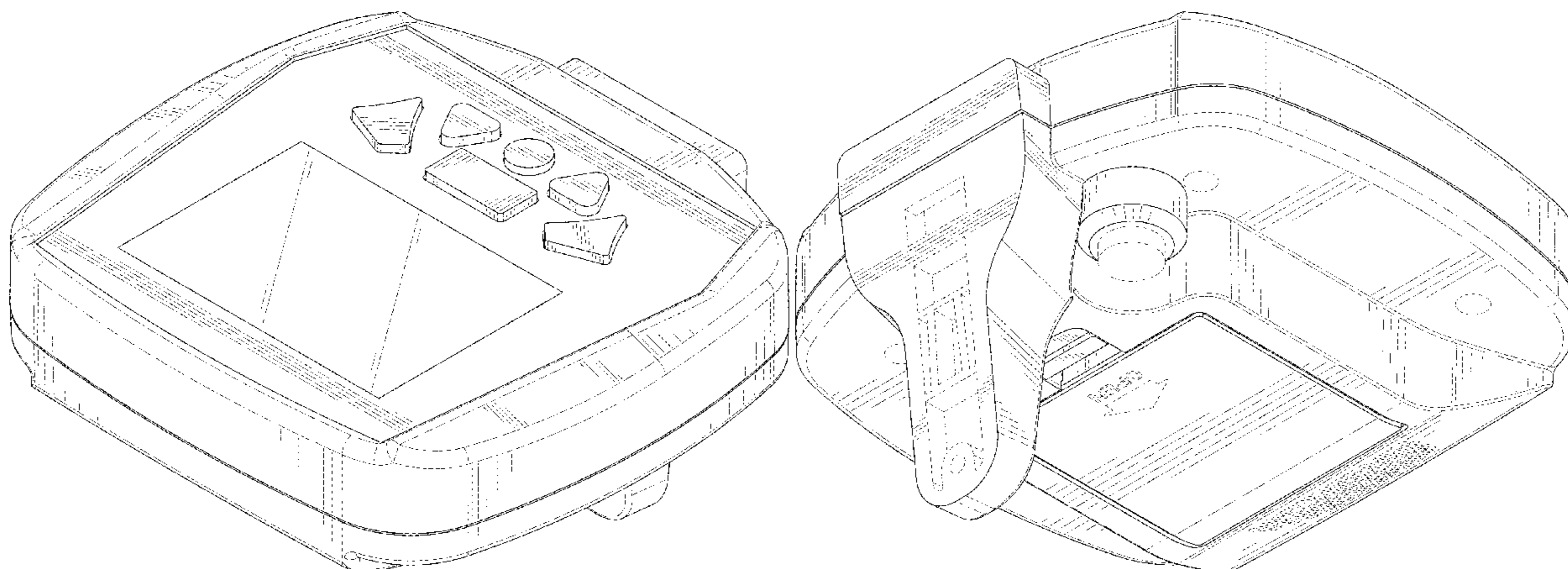
CLAIM

The ornamental design for a metal detector control box, as shown and described.

DESCRIPTION

FIG. 1 is a front and top perspective view of a metal detector control box, showing my new design;
FIG. 2 is a rear and bottom perspective view thereof;
FIG. 3 is a front elevation view thereof;
FIG. 4 is a rear elevation view thereof;
FIG. 5 is a left side elevation view thereof;
FIG. 6 is a right side elevation view thereof;
FIG. 7 is a top plan view thereof; and,
FIG. 8 is a bottom plan view thereof.
The broken lines in the figures illustrate portions of the metal detector control box that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2022/0206179 A1* 6/2022 Gall F16B 7/14

FOREIGN PATENT DOCUMENTS

CN	307520806	*	4/2022
CN	008734446-0001	*	10/2022
EM	008798466-0001	*	12/2021
EM	009097488-0002	*	7/2022

OTHER PUBLICATIONS

Garrett, AT Max Waterproof Metal Detector, Date first available Dec. 15, 2018, [online]retrieved Sep. 13, 2022, available from https://www.amazon.com/Garrett-Waterproof-Headphones-Pro-Pointer-Pinpointer/dp/B07GT9GH14/ref=psdc_554036_t2_B08HFKYVZR (Year: 2018).*

Garrett, ACE 300 Metal Detector, Date first available Apr. 17, 2021, [online]retrieved Sep. 13, 2022, available from https://www.amazon.com/Garrett-Ace-300-Metal-Detector/dp/B07BR1L7SR/ref=sr_1_6?c=ts&keywords=Metal+Detectors&qid=16630986738s=lawn-garden&sr=1-6&ts_id=554036 (Year: 2021).*

* cited by examiner

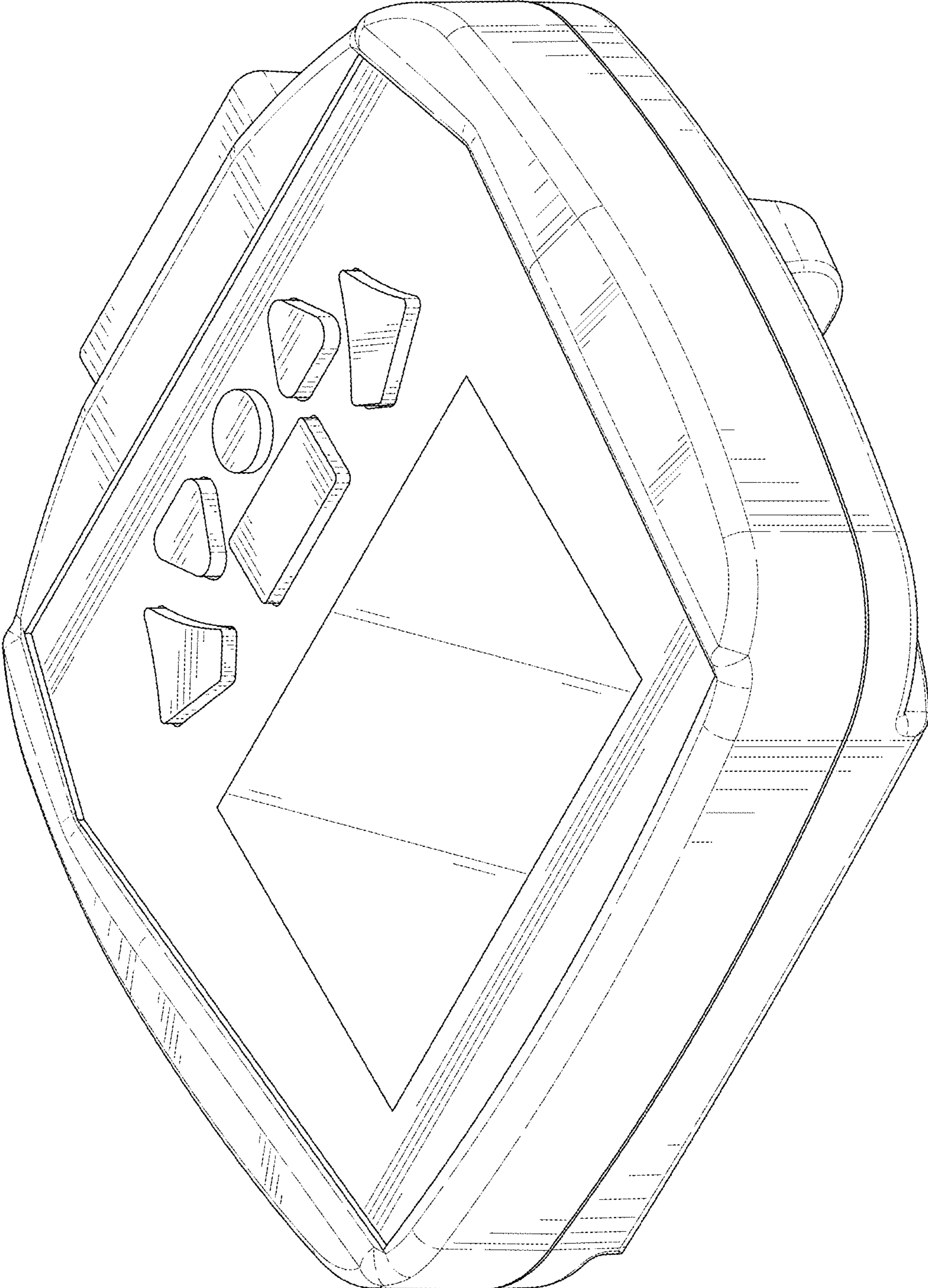


FIG. 1

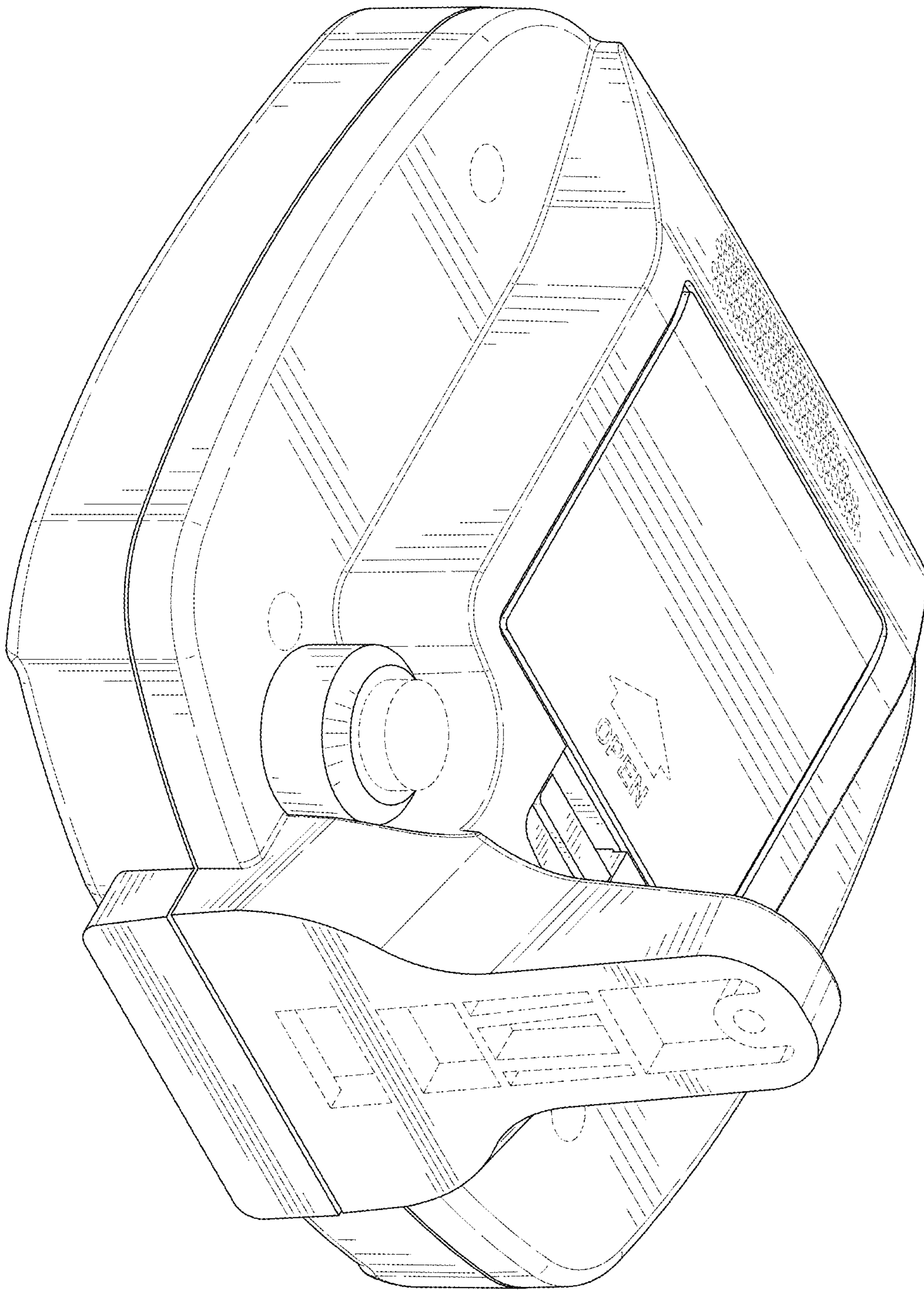


FIG. 2

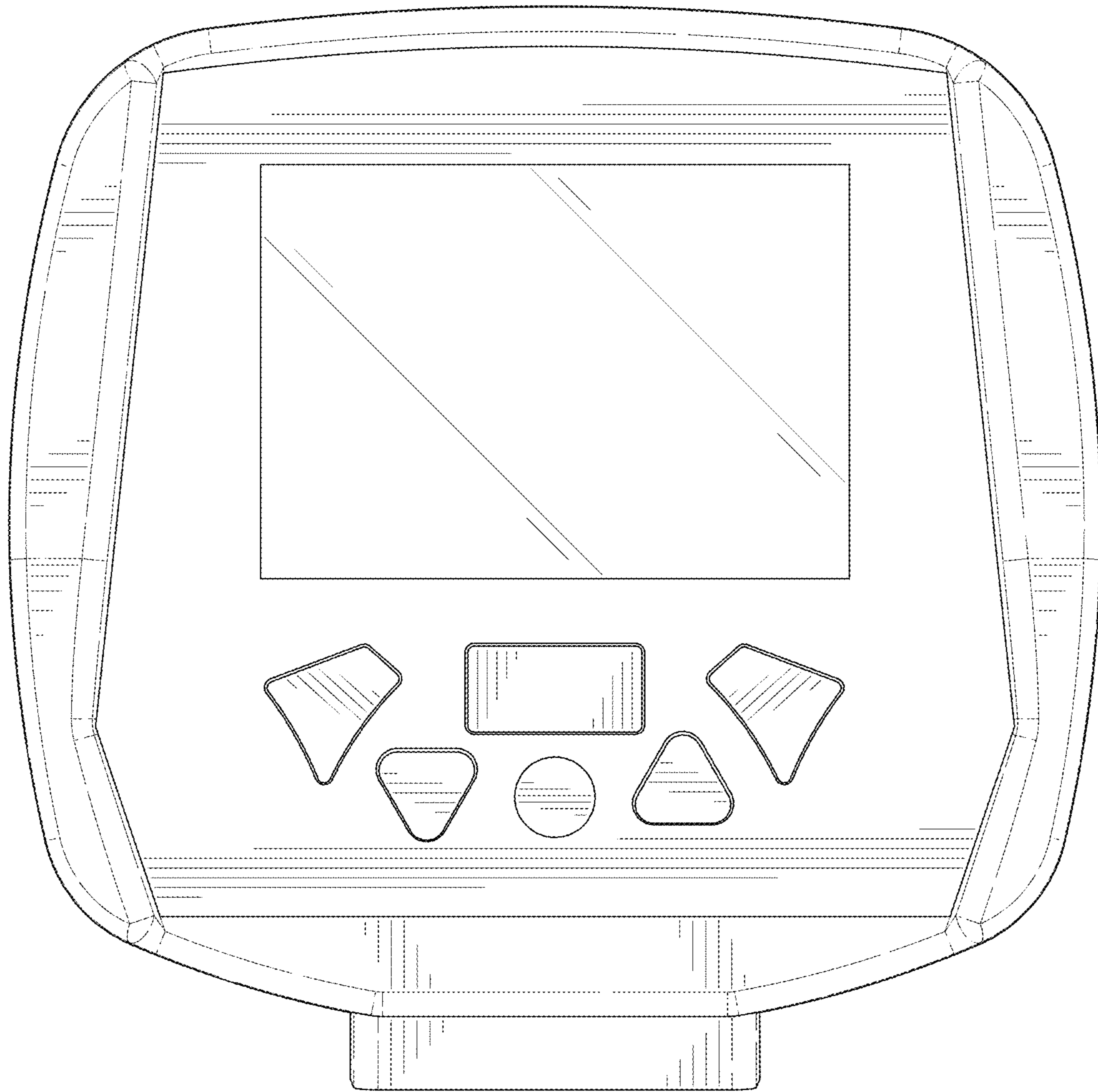


FIG. 3

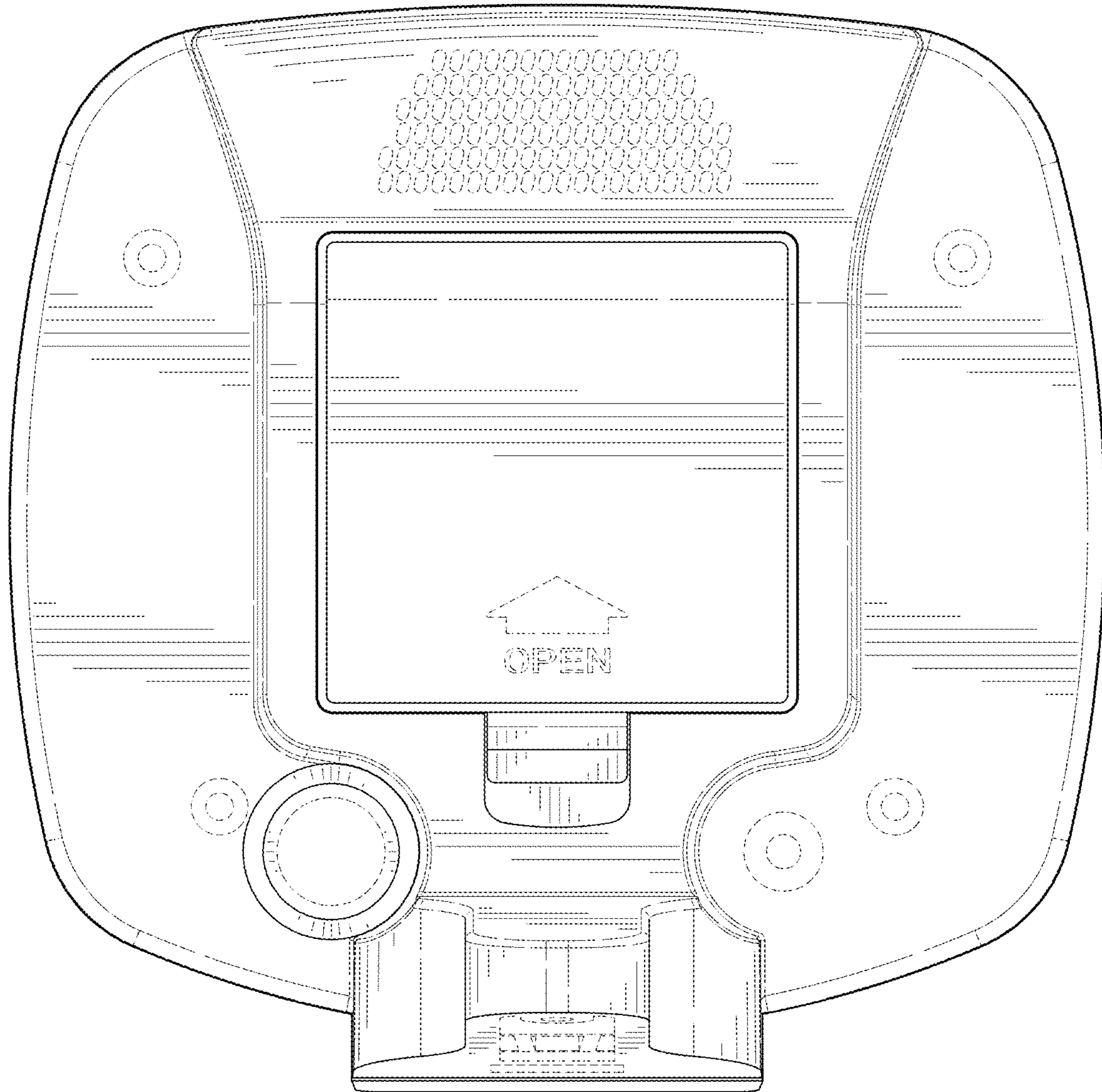


FIG. 4

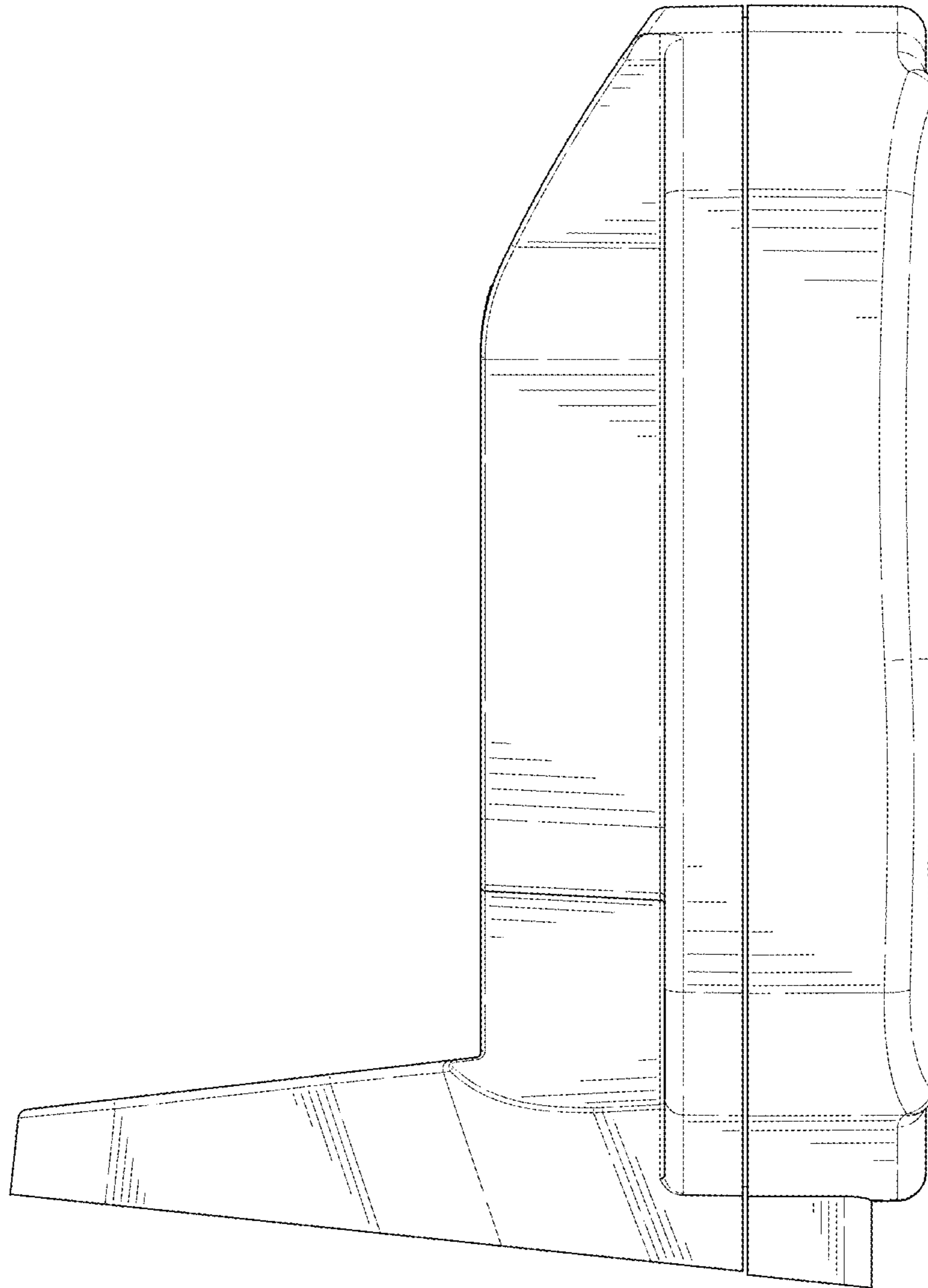


FIG. 5

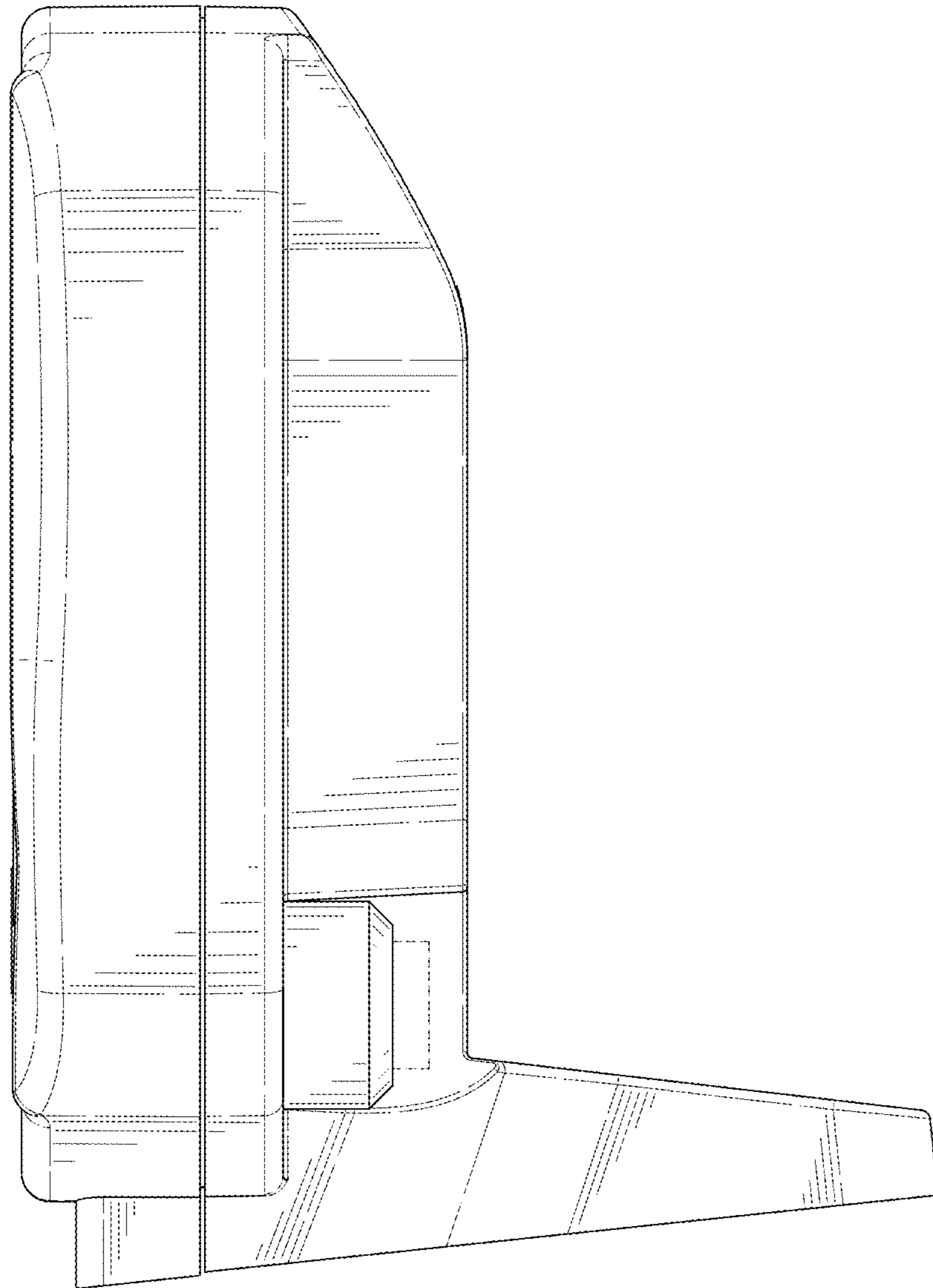


FIG. 6

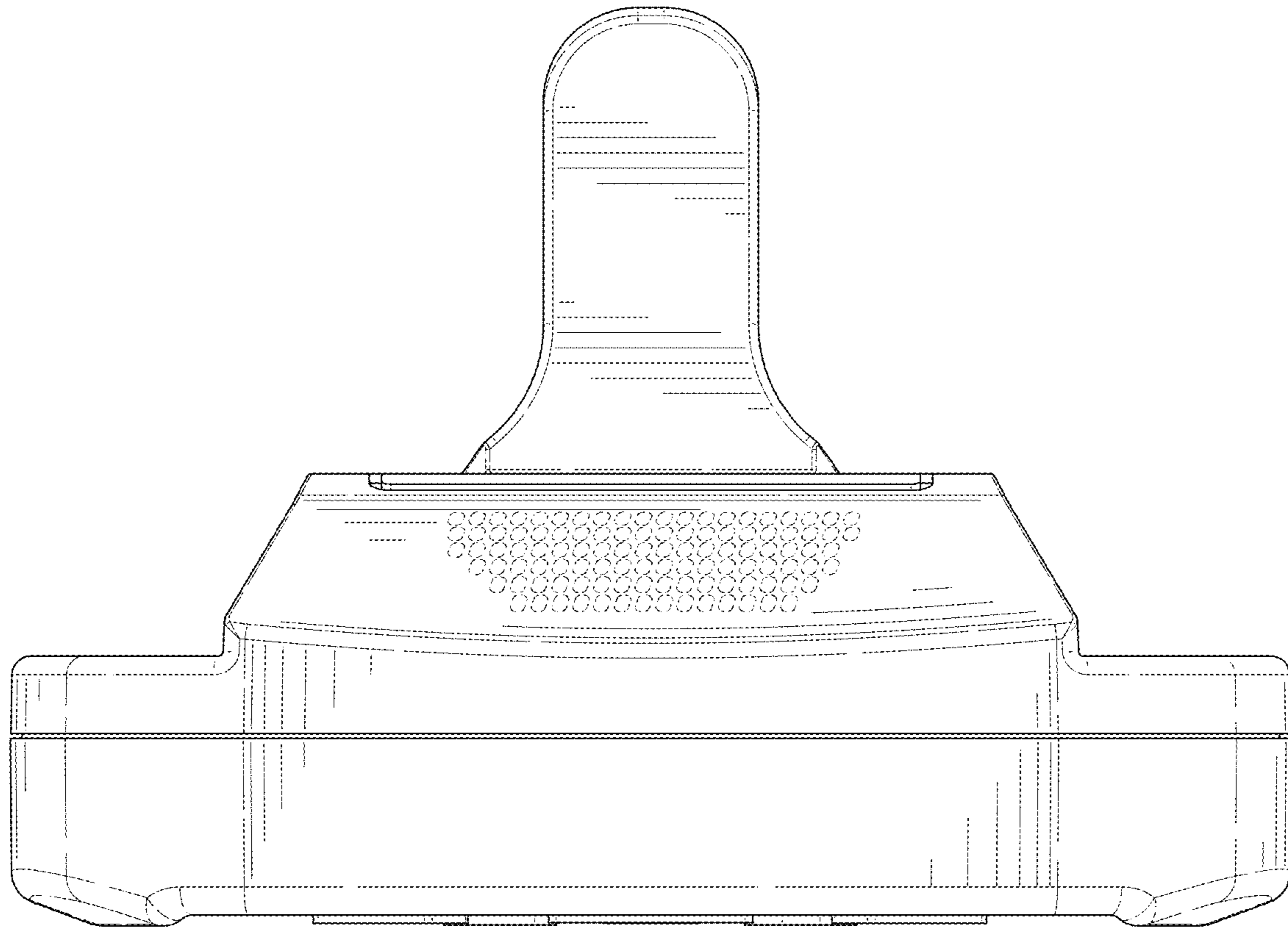


FIG. 7

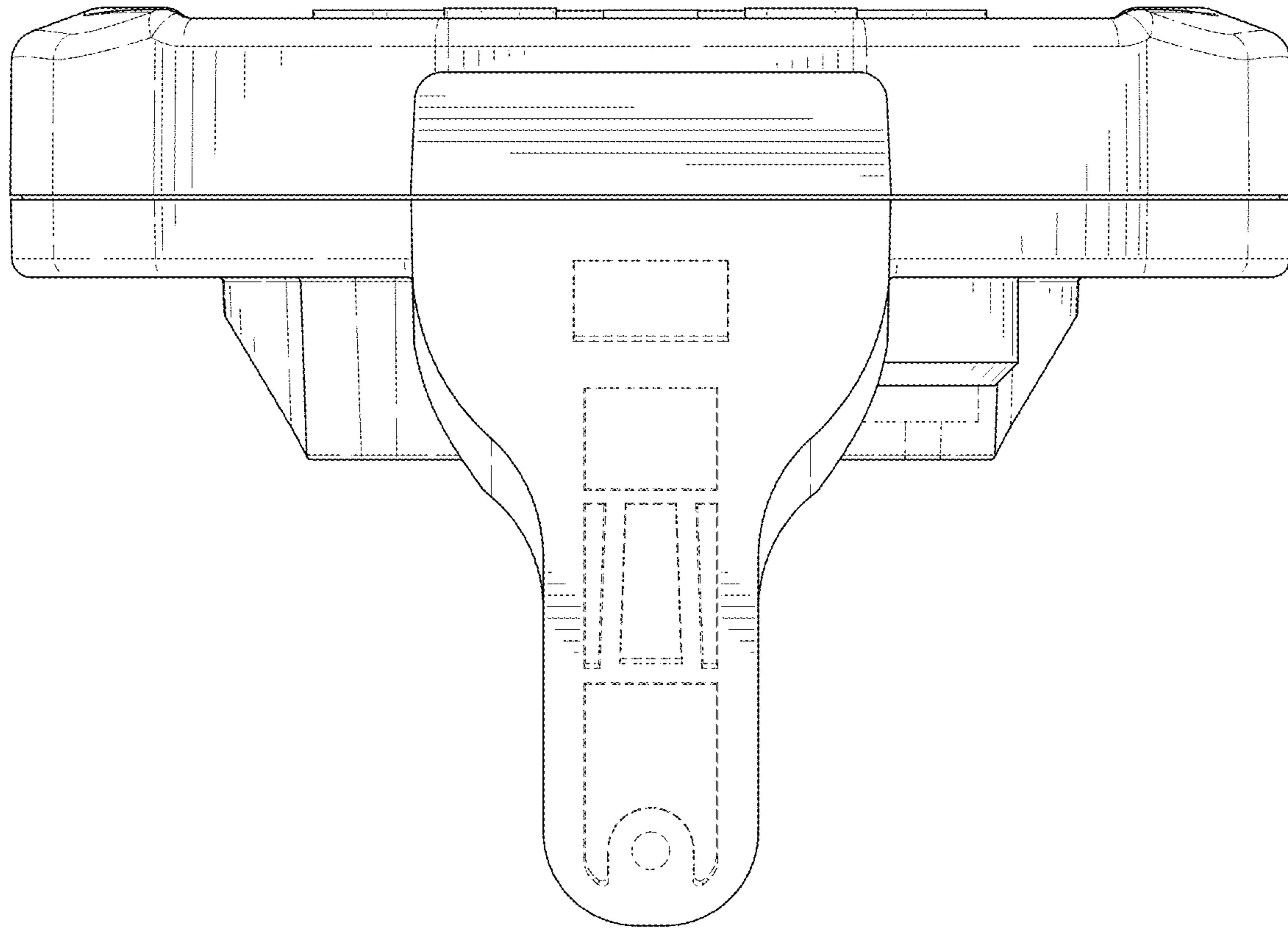


FIG. 8