



US0D1030635S

(12)

United States Design Patent

Cerovic et al.

(10)

Patent No.:

US D1,030,635 S

(45)

Date of Patent:

** Jun. 11, 2024

(54) LAUNCHER BATTERY ASSEMBLY

(71) Applicant: Wrap Technologies, Inc., Tempe, AZ (US)

(72) Inventors: Milan Cerovic, Tempe, AZ (US);
David T. Richter, Tempe, AZ (US)

(73) Assignee: Wrap Technologies, Inc., Tempe, AZ (US)

(**) Term: 15 Years

(21) Appl. No.: 29/802,114

(22) Filed: Aug. 3, 2021

(51) LOC (14) Cl. 13-02

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

(58) Field of Classification Search
USPC D13/102–110, 118–119, 184, 199
CPC Y02E 60/10; Y02E 60/50; H01M 10/44;
H01M 10/46; H01M 10/465; H01M 10/482;
H01M 10/4257; H01M 10/12; H01M 10/623;
H01M 10/6235; H01M 2200/30; H01M 2250/30;
H01M 2250/40; H01M 2250/20; H01M 2220/30;
H01M 50/10; H01M 50/136; H01M 50/56;
H01M 50/1385; H01M 4/0433; H01M 6/505;
H02J 7/00; H02J 7/0003; H02J 7/0013;
H04B 1/3888; A45C 2011/002; H04M 1/0283

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D299,507 S	1/1989	Hwa	
D301,228 S *	5/1989	Culbertson	D13/103
D323,870 S	2/1992	Kaufman	
D344,927 S *	3/1994	Sands	D13/103
D357,966 S	2/1995	Gunby	
D371,417 S	7/1996	Franks	

D399,821 S	10/1998	Tyneski et al.	
D448,002 S *	9/2001	Yang	D13/103
D451,165 S	11/2001	Fleischhauer	
(Continued)			

FOREIGN PATENT DOCUMENTS

AD	00202200363-0001	4/2022
AU	202210537	3/2022
(Continued)		

OTHER PUBLICATIONS

Instagram post “BolaWrap”. 1 page, posted Jun. 17, 2022 by user “wraptechnologies”. Retrieved from Internet URL: <https://www.instagram.com/p/Ce6F7U-g7o8/> (Year: 2022).
(Continued)

Primary Examiner — Nathaniel D. Buckner
(74) Attorney, Agent, or Firm — Thorpe North & Western; Jason R. Jones

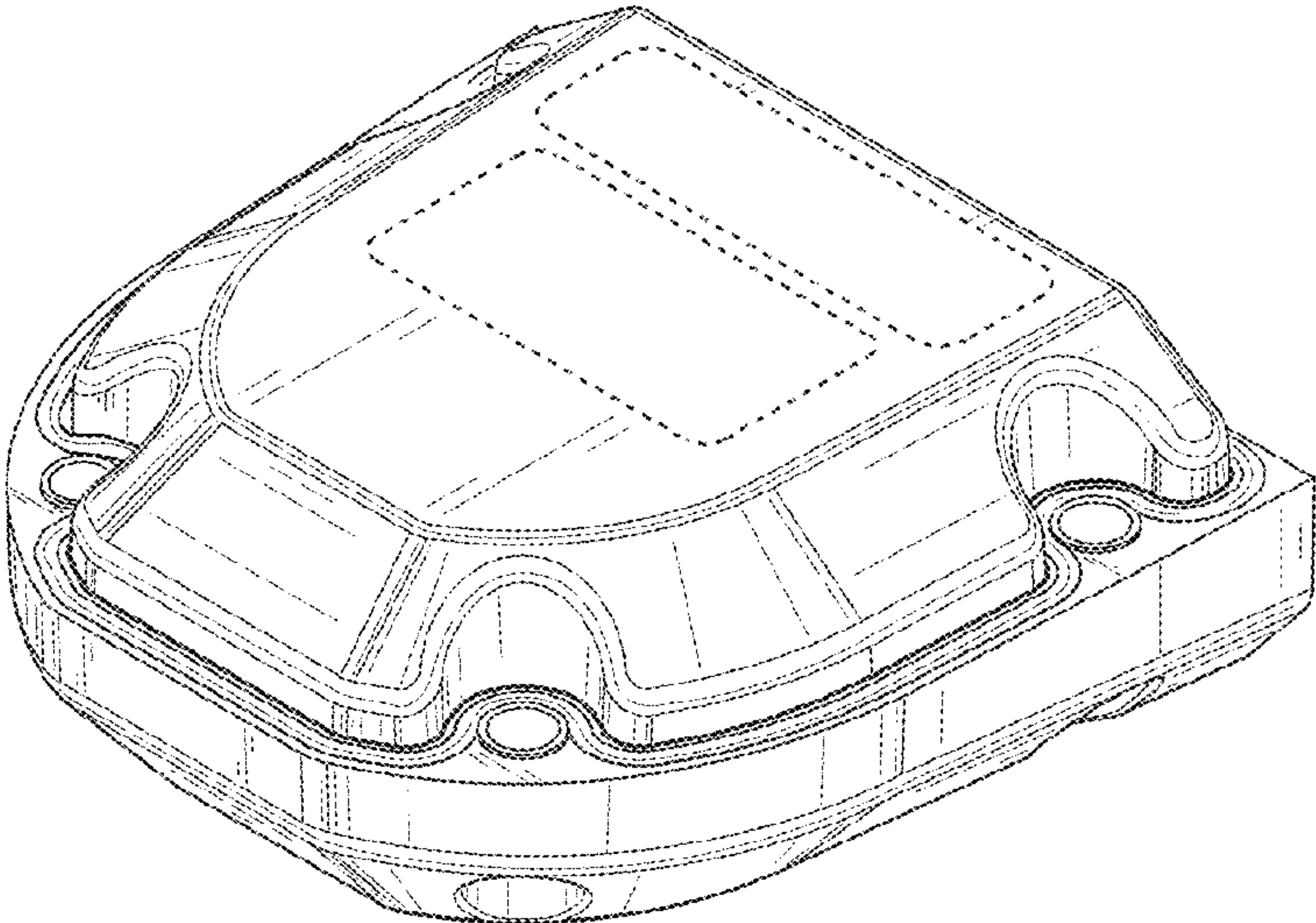
(57) CLAIM

The ornamental design for the launcher battery assembly, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a launcher battery assembly in accordance with our invention;
FIG. 2 is a top view thereof;
FIG. 3 is a bottom view thereof;
FIG. 4 is a front view thereof;
FIG. 5 is a rear view thereof; and,
FIG. 6 is a side view thereof, an opposing side view being a mirror image thereof.
The dashed lines in the drawings show environmental structure and form no part of the claimed design. The dashed lines immediately adjacent to a shaded area define the bounds of the claimed design and form no part thereof. Shading used in the drawings illustrates surface contours, and does not form a part of the claimed design.

1 Claim, 3 Drawing Sheets



(56)

References Cited**U.S. PATENT DOCUMENTS**

D470,212 S 2/2003 Cardwell
 D489,041 S 4/2004 Chen et al.
 6,807,762 B1 10/2004 Edwards
 D504,659 S * 5/2005 Voli D13/103
 D536,399 S 2/2007 Chen
 D539,376 S 3/2007 Rhee
 D539,866 S 4/2007 Rhee
 D551,668 S 9/2007 Newby et al.
 D552,207 S 10/2007 Rhee
 D566,221 S 4/2008 Collins
 D570,948 S 6/2008 Cerovic
 D573,223 S 7/2008 Kostal
 D585,519 S 1/2009 Pennington
 D602,109 S 10/2009 Cerovic et al.
 D611,115 S 3/2010 Pennington
 D613,143 S 4/2010 Aglassinger
 D651,679 S 1/2012 Klug
 8,183,830 B2 5/2012 Law
 D661,771 S 6/2012 Nawaz
 D670,242 S 11/2012 Cobbett et al.
 D680,061 S * 4/2013 Jiang D13/103
 D681,549 S * 5/2013 Jackson D13/103
 D702,312 S 4/2014 Ying
 D708,681 S 7/2014 Italia
 D731,612 S * 6/2015 Ying D22/117
 D736,885 S 8/2015 Swan
 D742,817 S * 11/2015 Lammers-Meis D13/103
 D742,824 S * 11/2015 Hsu D13/103
 D743,332 S 11/2015 Ju et al.
 D747,522 S 1/2016 Sheikh
 D777,125 S 1/2017 Eder
 D784,484 S 4/2017 Nawaz
 D791,901 S 7/2017 Swan
 D798,415 S 9/2017 Lin
 D806,824 S 1/2018 Fan
 D820,940 S 6/2018 Norris et al.
 D822,785 S 7/2018 Norris
 D835,573 S * 12/2018 Chen D13/103
 10,502,526 B2 * 12/2019 Norris F42B 12/56
 D885,511 S 5/2020 Zhang
 D889,591 S 7/2020 Fan
 D890,288 S 7/2020 Tang
 D891,363 S 7/2020 Roberts et al.
 D900,021 S * 10/2020 Shen D13/103
 10,890,419 B2 1/2021 Norris
 10,942,012 B2 3/2021 Sun et al.
 10,948,269 B2 3/2021 Norris
 D925,141 S * 7/2021 Lai D10/104.1
 11,287,226 B2 3/2022 Norris
 11,353,287 B1 7/2022 Norris
 D964,927 S * 9/2022 Deng D3/294

D984,549 S 4/2023 Pearce
 D995,703 S * 8/2023 Clemons D22/117
 2002/0041479 A1 4/2002 Hsieh et al.
 2006/0068274 A1 3/2006 Lee et al.
 2010/0259875 A1 10/2010 Yang et al.
 2010/0296222 A1 11/2010 Nawaz
 2010/0331042 A1 12/2010 Yang et al.
 2016/0164062 A1 6/2016 Liu et al.
 2018/0342891 A1 11/2018 Nook et al.
 2019/0113308 A1 4/2019 Norris et al.
 2020/0096297 A1 3/2020 Norris
 2020/0191531 A1 6/2020 Norris
 2020/0191532 A1 6/2020 Norris
 2020/0300584 A1 9/2020 Sun et al.
 2022/0170720 A1 6/2022 Clemons et al.
 2022/0190426 A1 6/2022 Zeiler et al.
 2022/0268556 A1 8/2022 Norris
 2023/0160660 A1 5/2023 Richter et al.
 2023/0296358 A1 9/2023 Cerovic et al.

FOREIGN PATENT DOCUMENTS

CA	209462	7/2023
EP	008820492-0001	1/2022
EP	008820492-0002	1/2022
EP	008820492-0003	1/2022
EP	008820492-0004	1/2022
EP	008820492-0005	1/2022
EP	008820492-0006	1/2022
GB	6184761	1/2022
GB	6184762	1/2022
GB	6184765	1/2022
GB	6184766	1/2022
GB	6187463	1/2022
GB	6187464	1/2022
IL	68153	12/2021
KR	301233849.0000	10/2023
NZ	429963	3/2022
SG	30202210422 Y	1/2022
TR	202113975-0002	4/2022
TW	222705-0001	12/2022

OTHER PUBLICATIONS

CBS-Bolawrap, YouTube-WRAP, Publication Date: Aug. 25, 2023.
 Date Accessed: Dec. 26, 2023. Retrieved from Youtube URL:
<https://www.youtube.com/watch?v=kcWtowR14cIJAQU> (Year: 2023).
 Instagram post “BolaWrap Pilot Program”. 1 page, posted May 24,
 2022 by user “wraptechnologies.” Date Accessed: Dec. 26, 2023.
 Retrieved from Internet URL: <https://www.instagram.com/p/CdJy8wg4N4/> (Year: 2023).

* cited by examiner

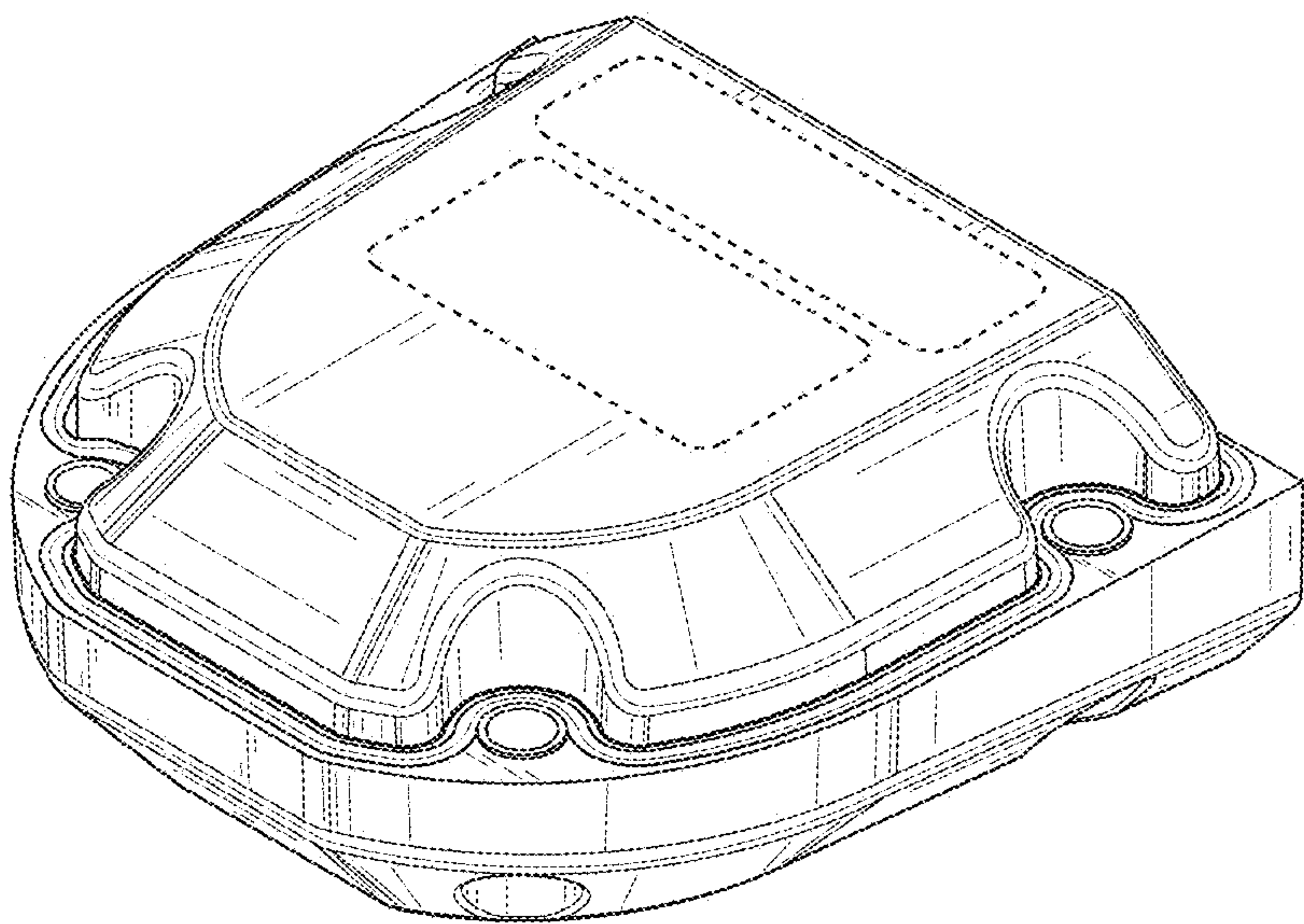


FIG. 1

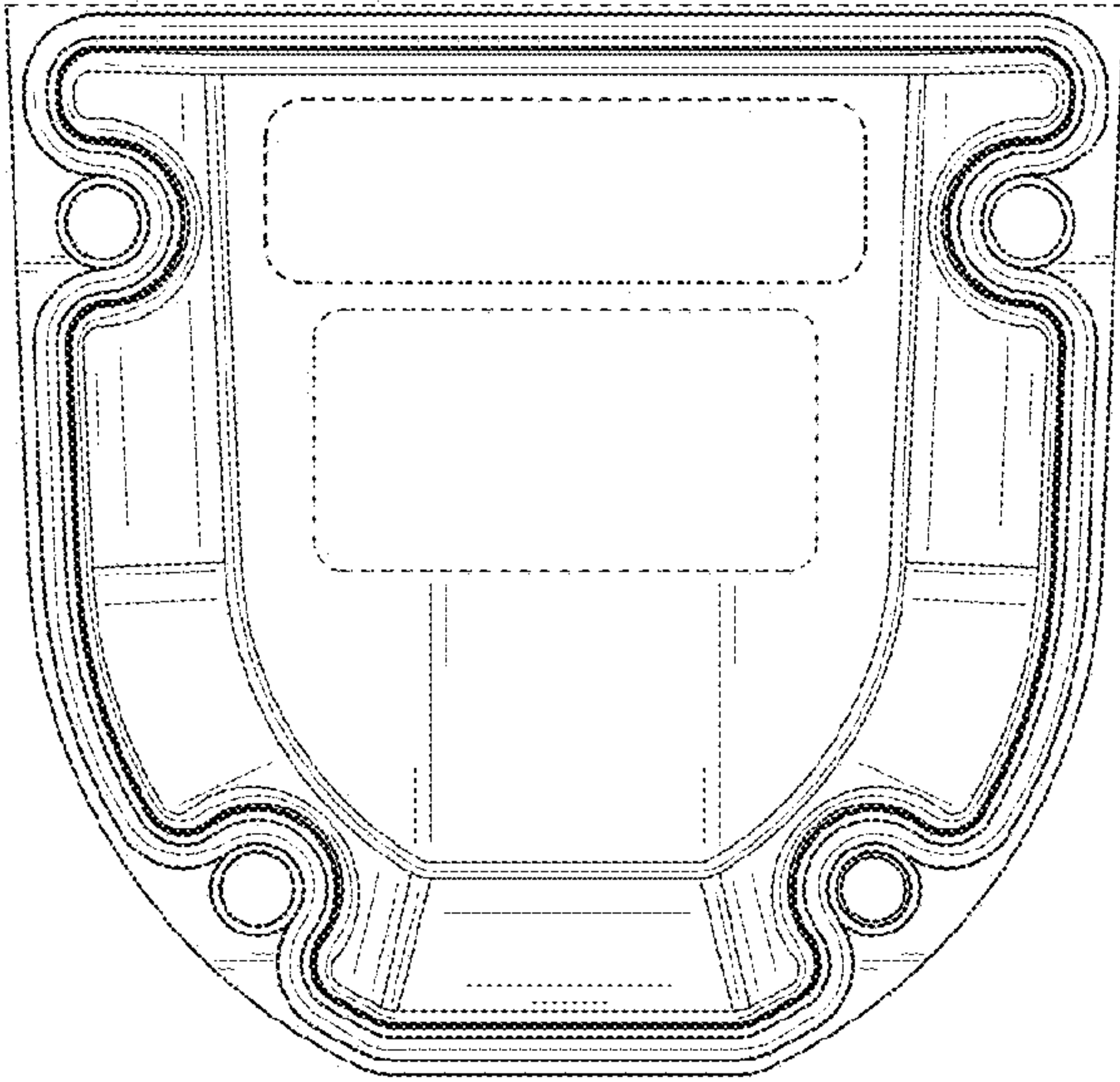


FIG. 2

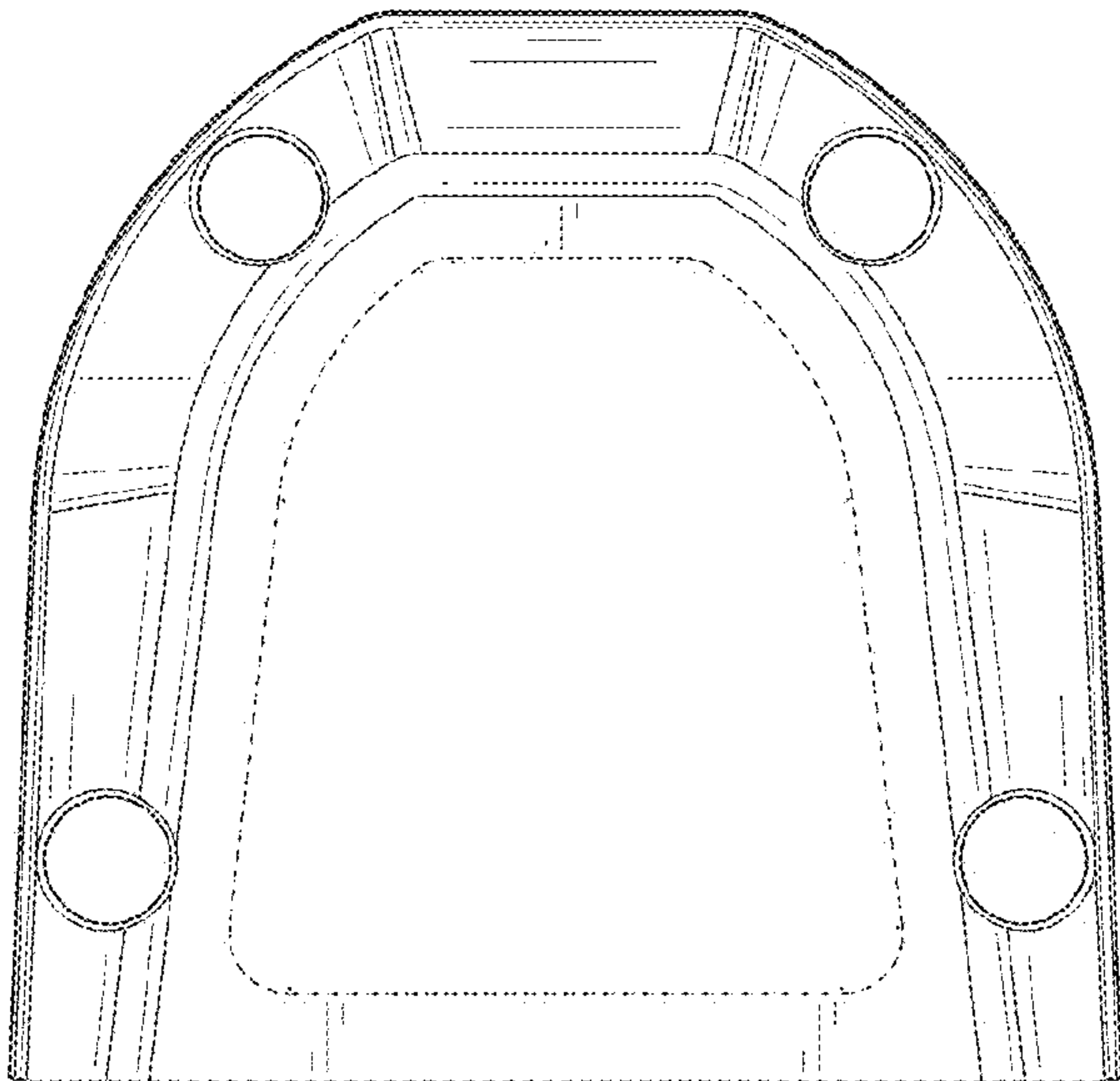


FIG. 3

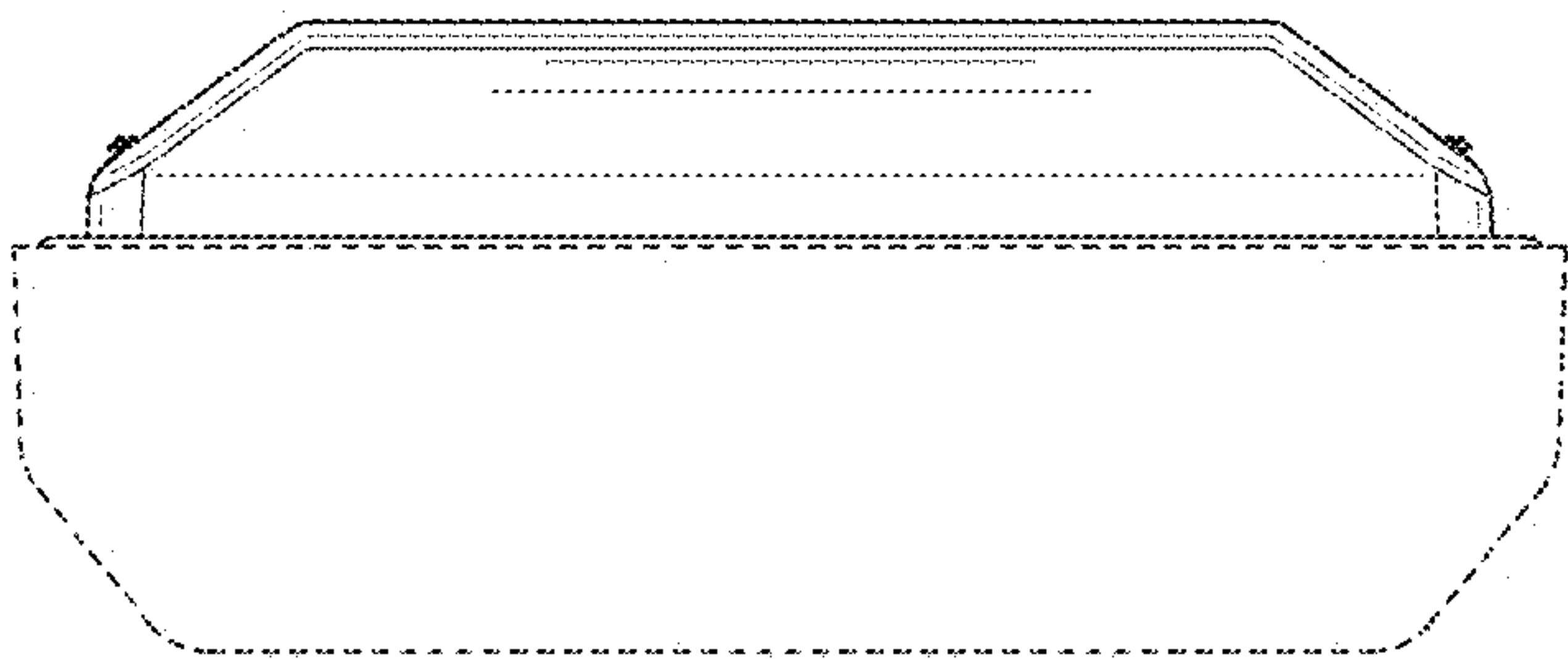


FIG. 4

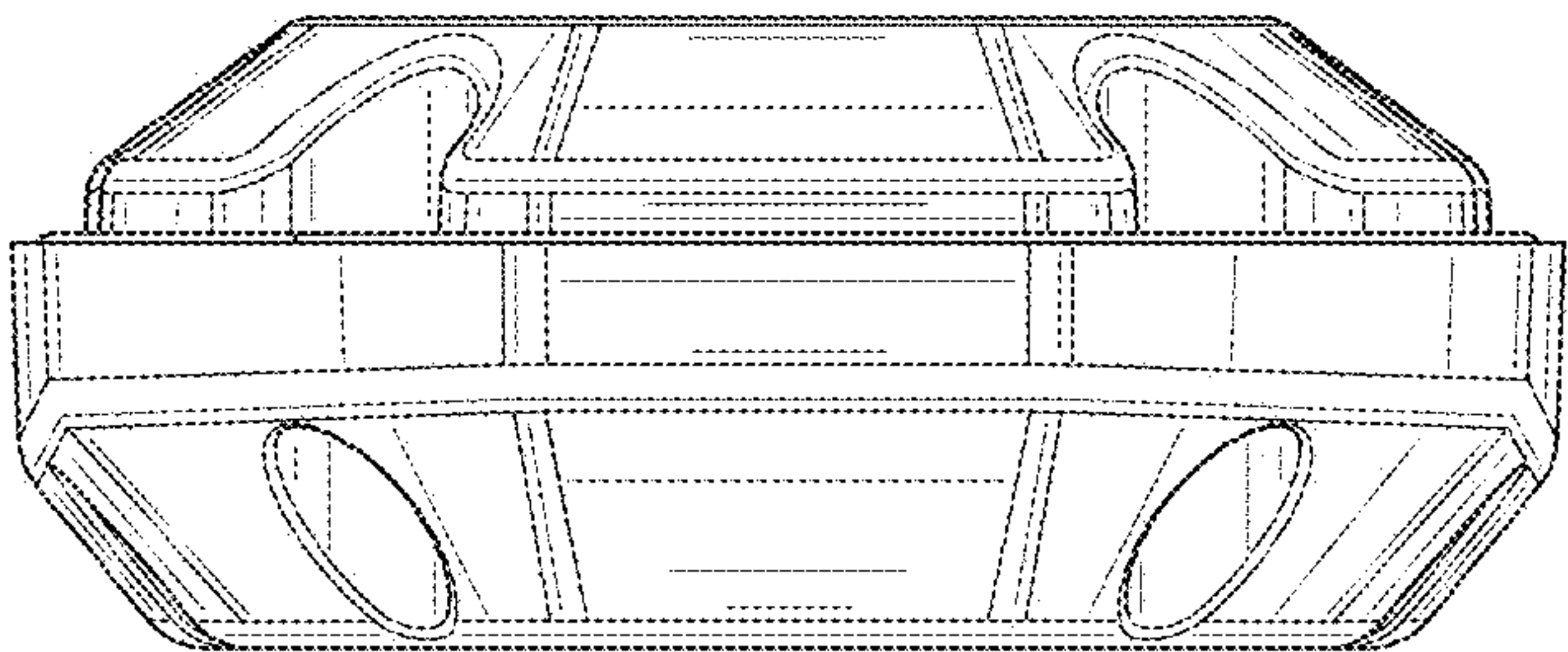


FIG. 5

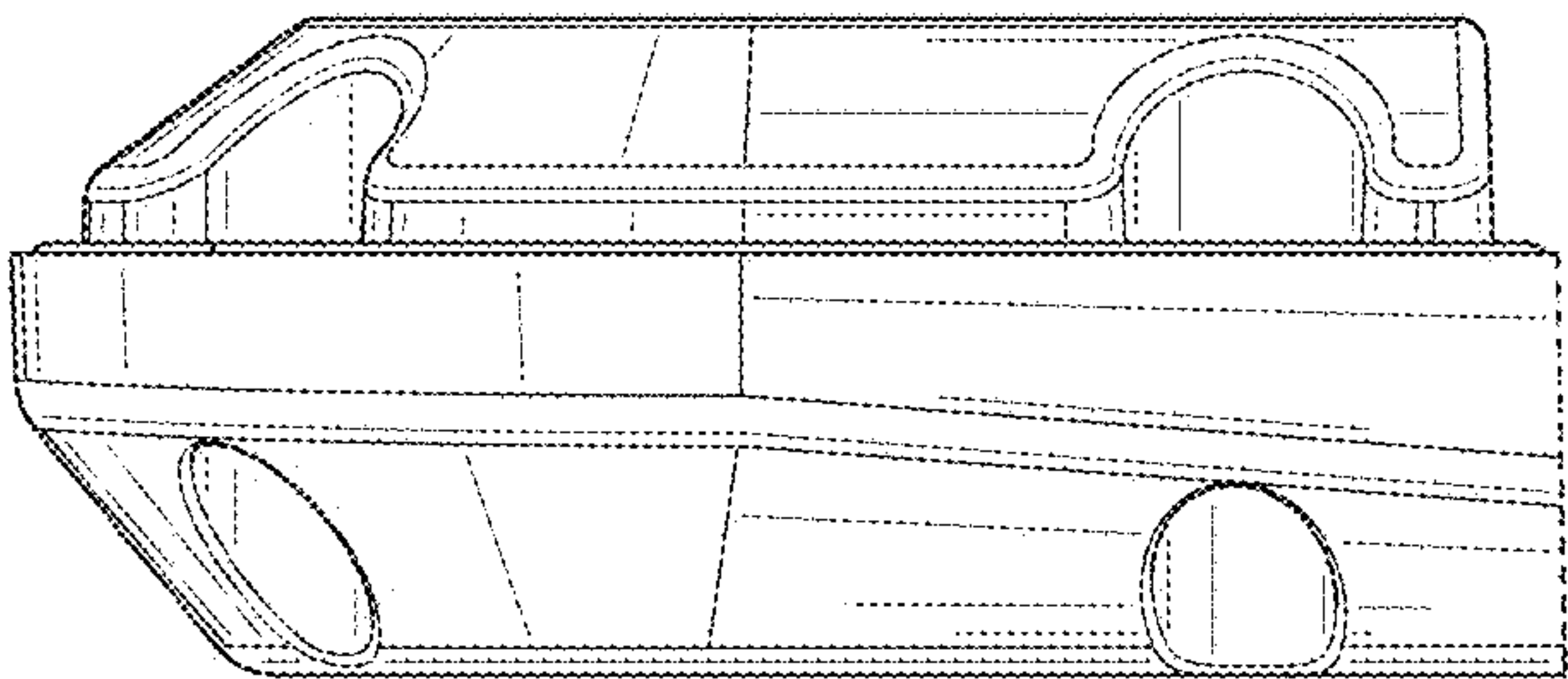


FIG. 6