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(12) **United States Design Patent** (10) **Patent No.:** **US D962,097 S**  
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(54) **BANDAGE TYPE TIRE PRESSURE MONITORING SENSOR**

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(51) **LOC (13) Cl.** ..... **10-05**

(52) **U.S. Cl.**  
USPC ..... **D10/86**

(58) **Field of Classification Search**  
USPC ..... D10/81-86, 94-103  
CPC ..... B60C 23/0491; B60C 23/0452; B60C 23/0493; B60C 23/04; B60C 23/0498; B60C 23/0496; B60C 23/0479; B60C 23/04985; B60C 23/0408; H01Q 1/2241; H01Q 7/00; B29D 2030/0072; B29D 2030/0077; Y10T 152/10

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D567,126 S \* 4/2008 Zheng ..... D10/86  
D670,588 S \* 11/2012 Chen ..... D10/86  
D734,188 S \* 7/2015 Tsunoda ..... D10/86  
D875,575 S \* 2/2020 Fagnot ..... D10/70  
D904,911 S \* 12/2020 Lu ..... D10/86

2006/0162436 A1\* 7/2006 Ito ..... B60C 23/0408 73/146  
2006/0220812 A1\* 10/2006 Luce ..... B60C 23/04985 340/442  
2012/0204634 A1\* 8/2012 Yu ..... B60C 23/0494 73/146.8  
2013/0333459 A1\* 12/2013 Yu ..... B60C 23/0494 73/146.8  
2017/0240007 A1\* 8/2017 Chuang ..... B60C 23/20  
(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 303255418 \* 11/2014  
CN 304656545 \* 12/2017  
CN 306830955 \* 4/2021  
CN 307000761 \* 11/2021

(Continued)

**OTHER PUBLICATIONS**

Cap Art Store, Tire Valve Stem Caps, Date first available Apr. 14, 2021, [online]retrieved Jan. 20, 2022,available from [https://www.amazon.com/Marsflex-42607-33011-42607-33021-42607-06011-42607-0E011/dp/B092HXSBGZ/ref=sr\\_1\\_20?crd=1X54H809TMAVL&keywords=tire+pressure+sensor&qid=1642720576&srefix=tire+pre](https://www.amazon.com/Marsflex-42607-33011-42607-33021-42607-06011-42607-0E011/dp/B092HXSBGZ/ref=sr_1_20?crd=1X54H809TMAVL&keywords=tire+pressure+sensor&qid=1642720576&srefix=tire+pre) (Year: 2021).\*

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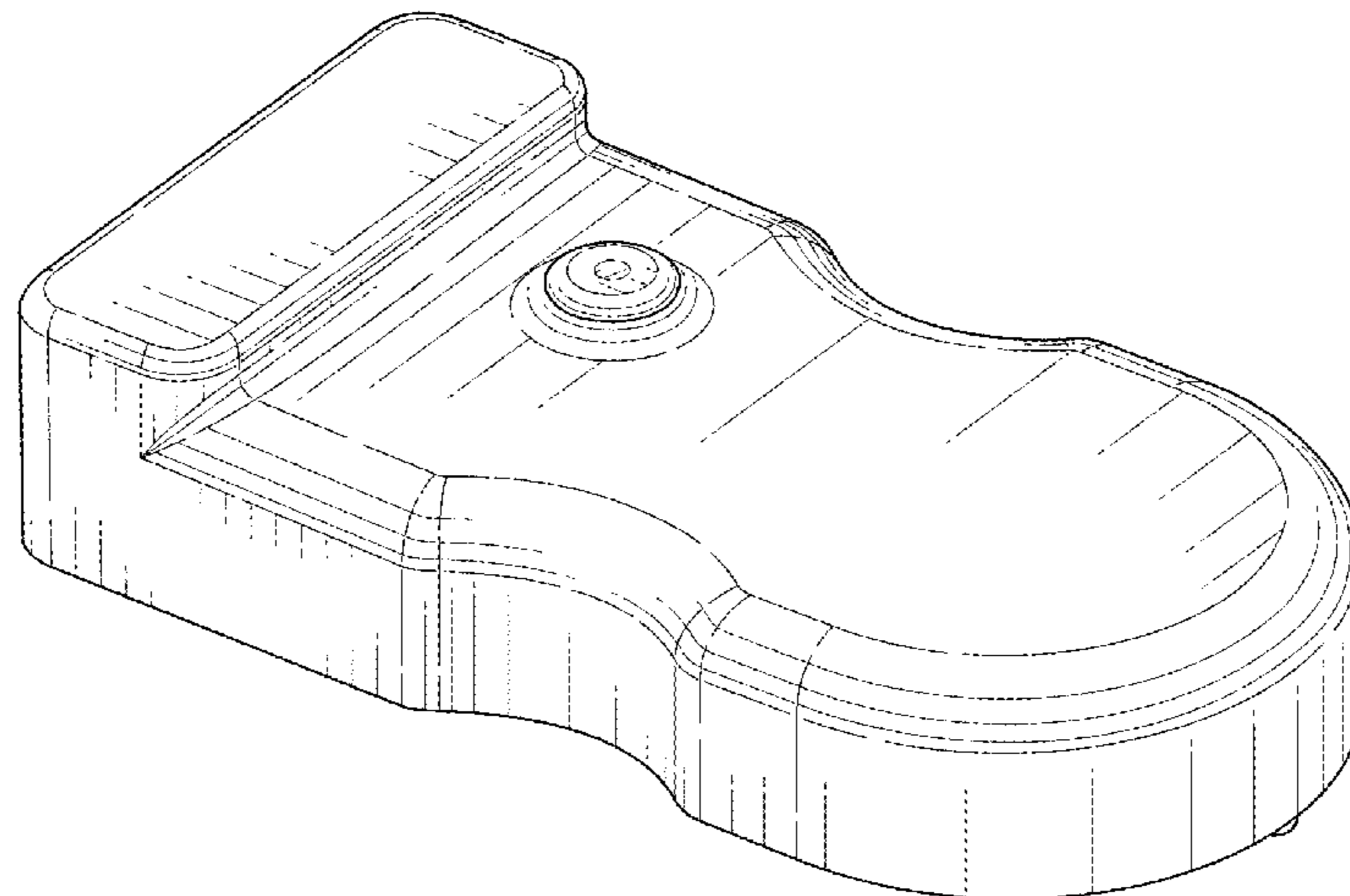
(57) **CLAIM**

The ornamental design for a bandage type tire pressure monitoring sensor, as shown and described.

**DESCRIPTION**

FIG. 1 is an overhead perspective view of a bandage-type tire pressure monitoring sensor showing our new design; 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 plan view thereof; and, FIG. 7 is a bottom plan view thereof.

**1 Claim, 3 Drawing Sheets**



(56)

**References Cited**

## U.S. PATENT DOCUMENTS

2020/0039301 A1\* 2/2020 McClurg ..... B60C 23/0494  
2020/0130433 A1\* 4/2020 Stewart ..... H01Q 7/00  
2021/0252816 A1\* 8/2021 So ..... B29D 30/0061

## FOREIGN PATENT DOCUMENTS

GB 9005933017-0001 \* 12/2018  
GB 9007787742-0003 \* 4/2020  
KR 300913193.0000 \* 11/2016

## OTHER PUBLICATIONS

Marsflex Store, TPMS Sensor Compatible, Date first available Apr. 14, 2021 [online]retrieved Jan. 20, 2022, available from [https://www.amazon.com/dp/B092HK5NJB/ref=sspa\\_dk\\_detail\\_3?psc=1&pd\\_rd\\_i=B092HK5NJB&pd\\_rd\\_w=nXg77&pf\\_rd\\_p=54ed5474-54a8-4c7f-a88a-45f748d18166&pd\\_rd\\_wg=457Gz&pf\\_rd\\_r=Q5R5WG0QBMW2Q856VHS2](https://www.amazon.com/dp/B092HK5NJB/ref=sspa_dk_detail_3?psc=1&pd_rd_i=B092HK5NJB&pd_rd_w=nXg77&pf_rd_p=54ed5474-54a8-4c7f-a88a-45f748d18166&pd_rd_wg=457Gz&pf_rd_r=Q5R5WG0QBMW2Q856VHS2) (Year: 2021).\*

Elikliv Store, RV Tire Pressure Monitoring System, Date first available Nov. 4, 2019, [online]retrieved Nov. 15, 2021, available from [https://www.amazon.com/Elikliv-Pressure-Monitoring-Real-time-Temperature/dp/B07ZZ2RCX7/ref=psdc\\_2201764011\\_t4\\_B092Z8TQL1](https://www.amazon.com/Elikliv-Pressure-Monitoring-Real-time-Temperature/dp/B07ZZ2RCX7/ref=psdc_2201764011_t4_B092Z8TQL1) (Year: 2019).\*

B-Qtech Store, Solar Power Tire Pressure Monitoring System, Date first available Apr. 29, 2019, [online]retrieved Nov. 15, 2021, available from [https://www.amazon.com/dp/B07Q5ZFG4F/ref=sspa\\_dk\\_detail\\_8?pd\\_rd\\_i=B07Q5ZFG4F&pd\\_rd\\_w=Aw3MN&pf\\_rd\\_p=9fd3ea7c-b77c-42ac-b43b-c872d3f37c38&pd\\_rd\\_wg=rCJTE&pf\\_rd\\_r=B](https://www.amazon.com/dp/B07Q5ZFG4F/ref=sspa_dk_detail_8?pd_rd_i=B07Q5ZFG4F&pd_rd_w=Aw3MN&pf_rd_p=9fd3ea7c-b77c-42ac-b43b-c872d3f37c38&pd_rd_wg=rCJTE&pf_rd_r=B) (Year: 2019).\*

\* cited by examiner

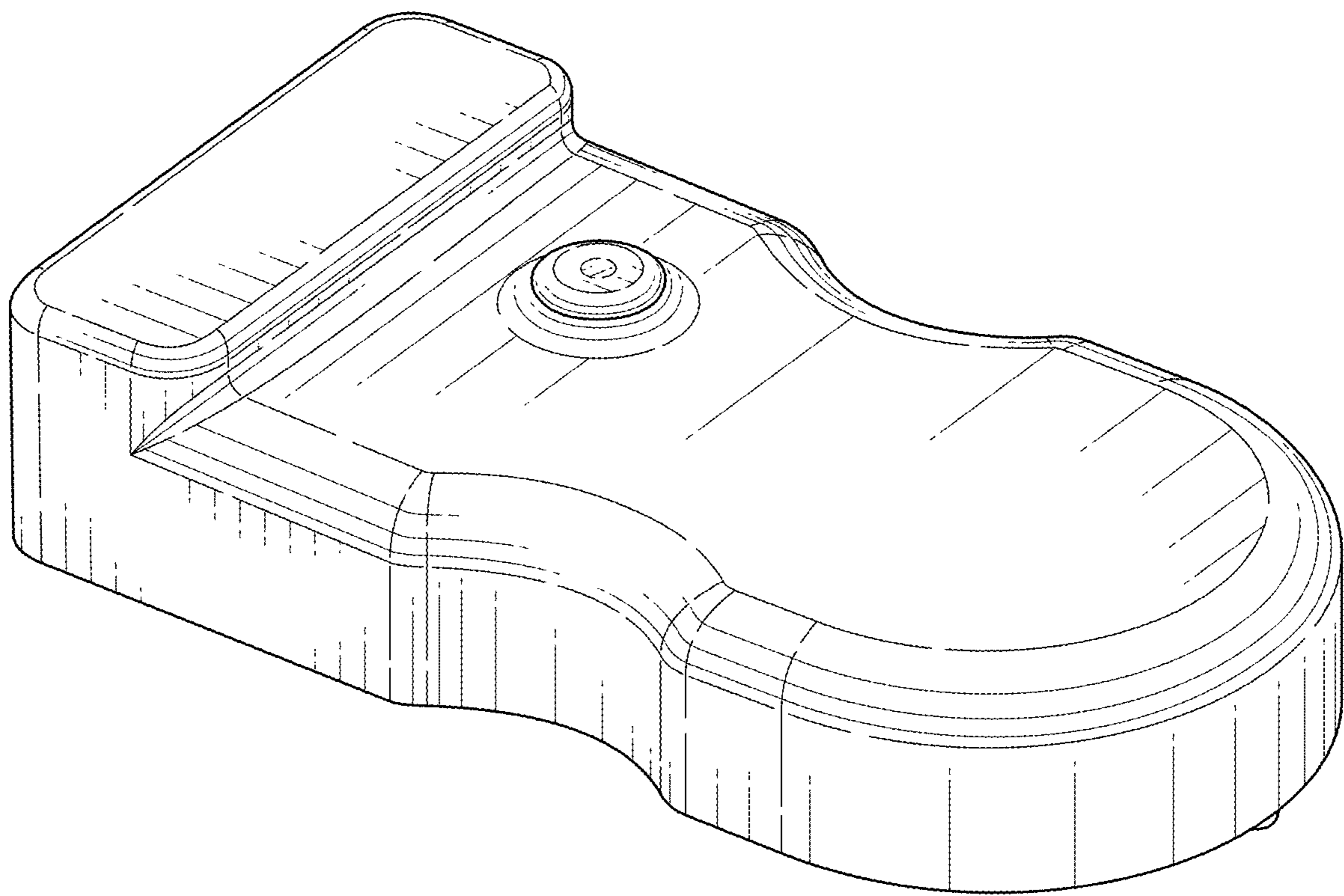


FIG. 1

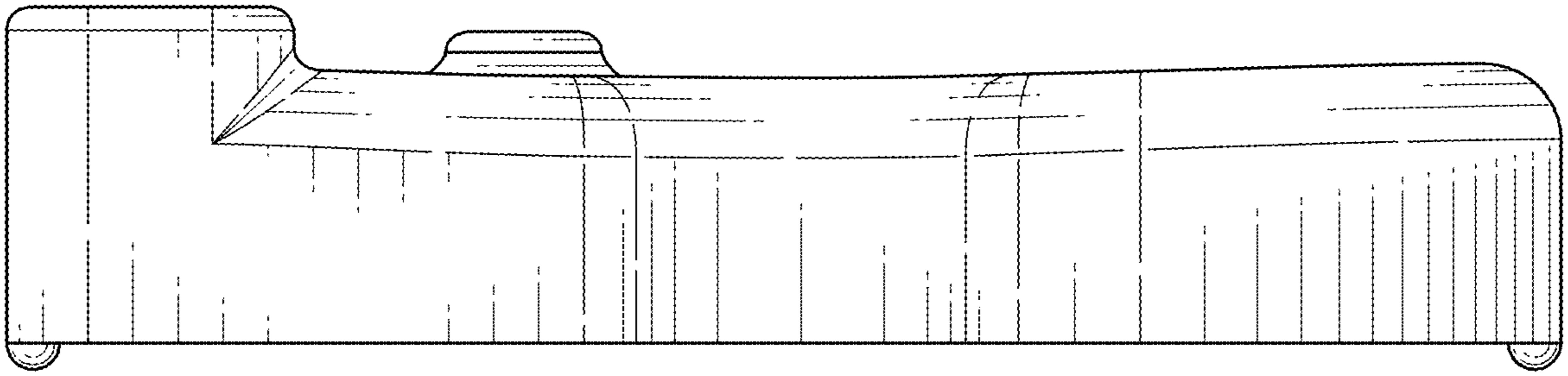


FIG. 2

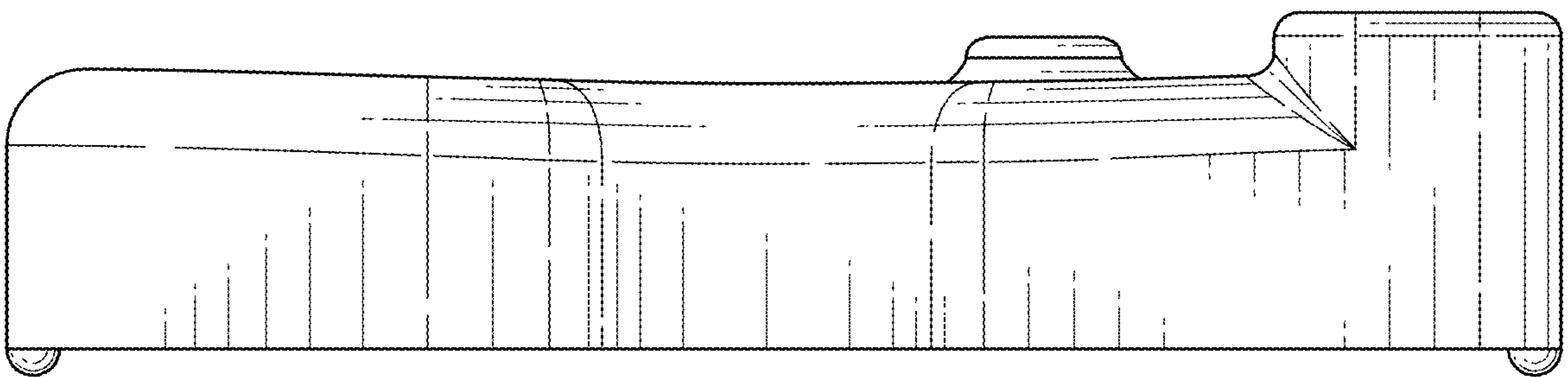


FIG. 3

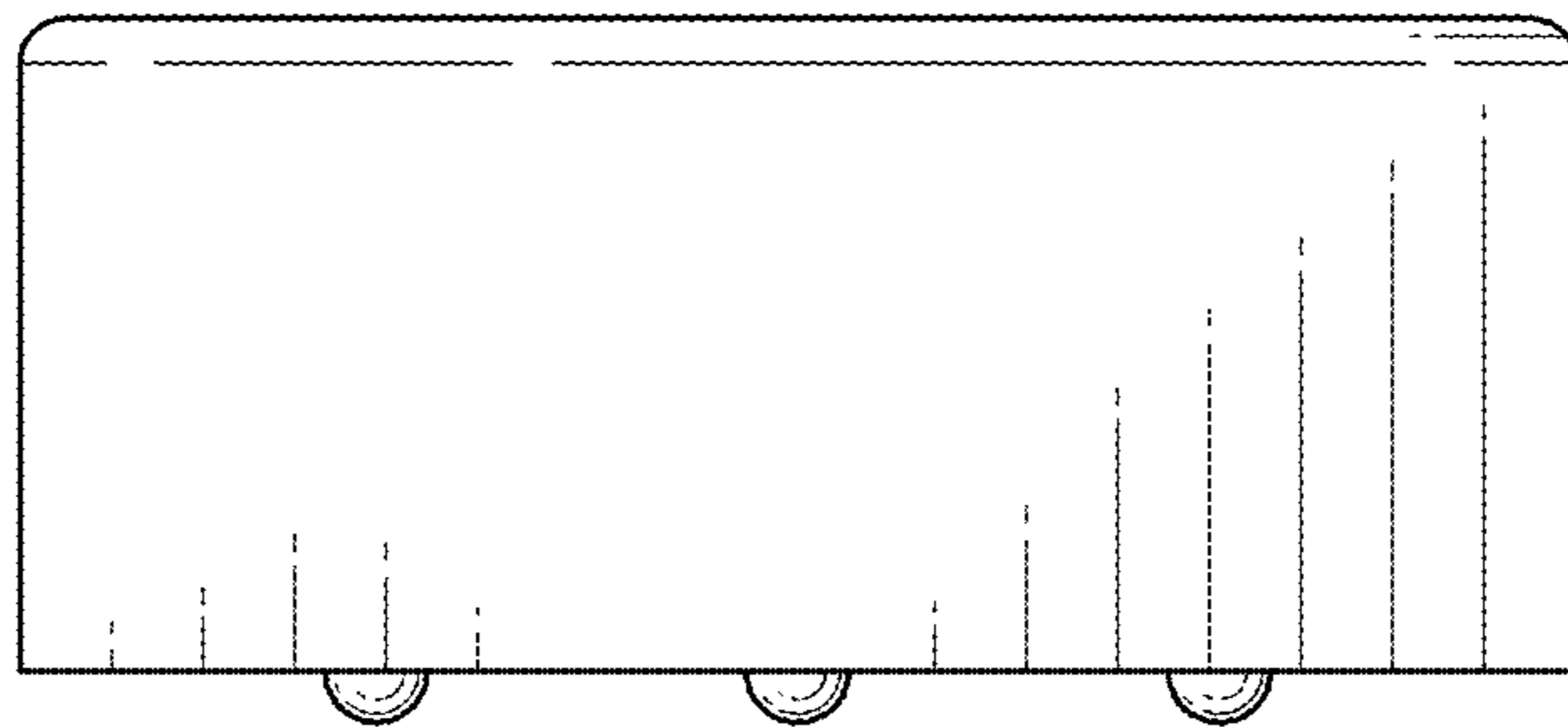


FIG. 4

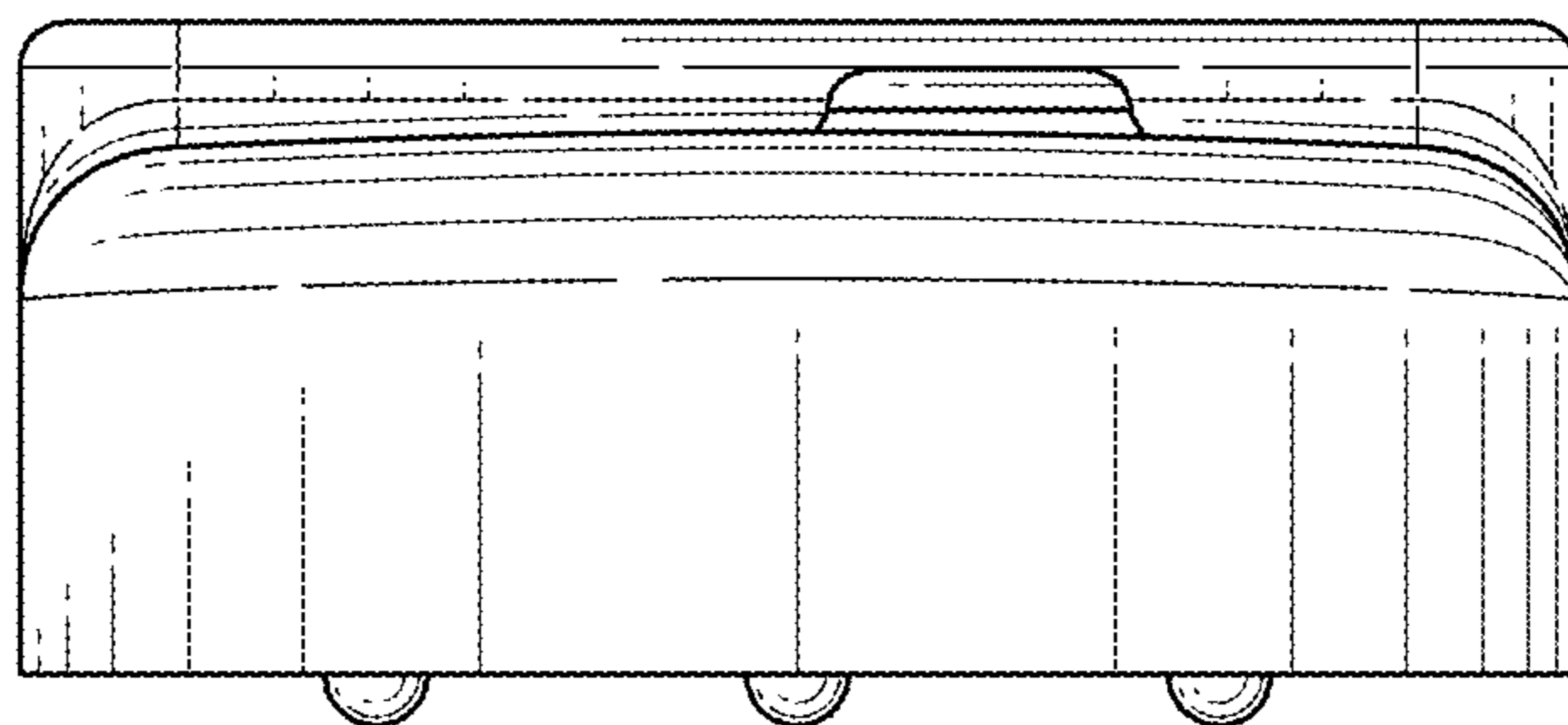


FIG. 5

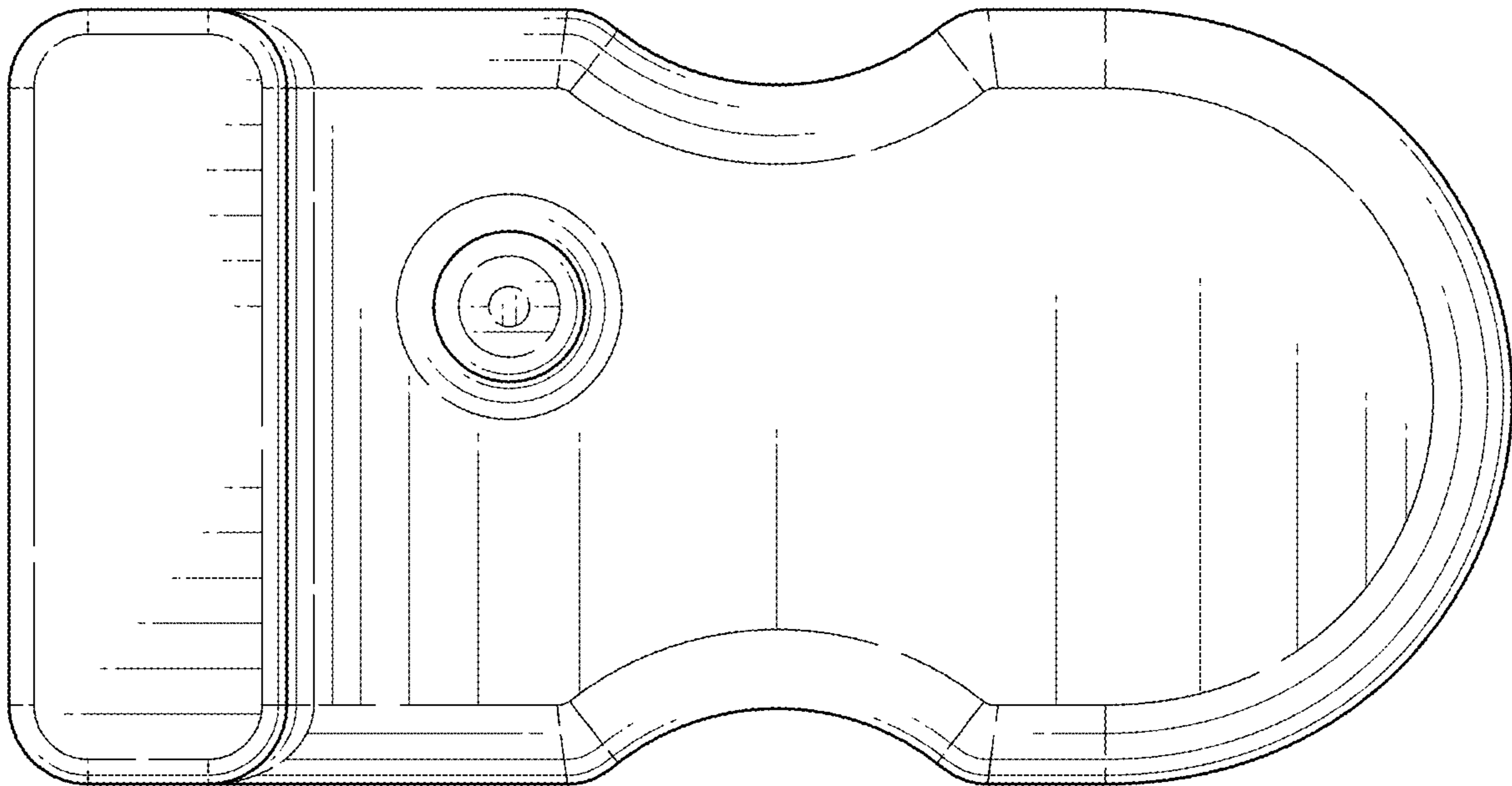


FIG. 6

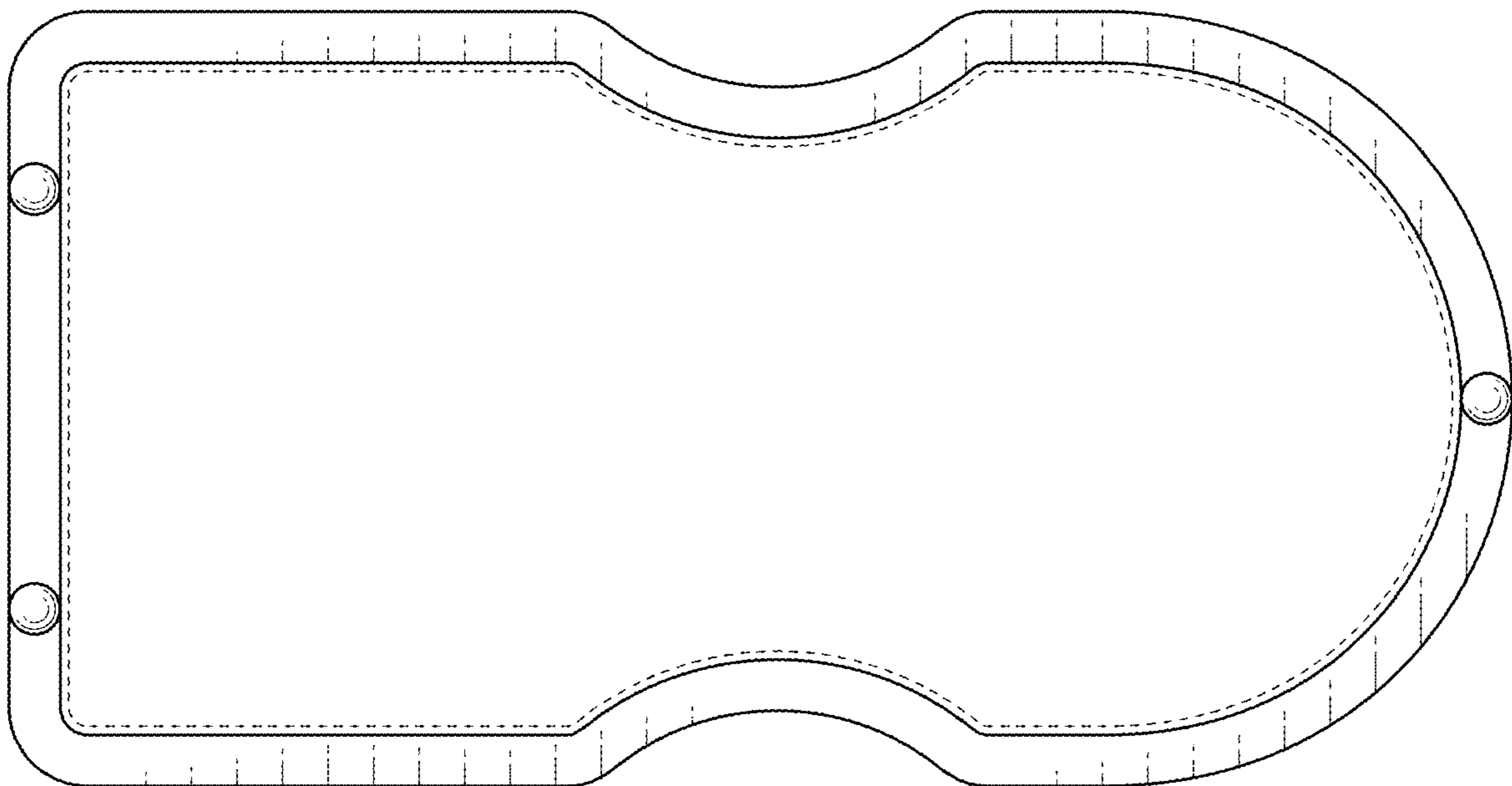


FIG. 7