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(12) **United States Design Patent**
DelloStritto et al.

(10) **Patent No.:** **US D643,929 S**

(45) **Date of Patent:** **** Aug. 23, 2011**

(54) **PULSE OXIMETER**

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(**) Term: **14 Years**

(21) Appl. No.: **29/377,303**

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(51) **LOC (9) Cl.** **24-01**

(52) **U.S. Cl.** **D24/165**

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D24/107, 186, 187; D10/46, 78, 98; 600/301,
600/481-483, 485, 490, 493-495, 500, 503,
600/509, 323, 383, 384; 128/900

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | | |
|--------------|-----|---------|-------------------|-------|---------|
| 5,099,842 | A * | 3/1992 | Mannheimer et al. | | 600/323 |
| 5,999,834 | A | 12/1999 | Wang et al. | | |
| 6,006,120 | A * | 12/1999 | Levin | | 600/323 |
| D452,318 | S * | 12/2001 | Merry et al. | | D24/168 |
| 6,377,829 | B1 | 4/2002 | Al-Ali | | |
| D463,561 | S * | 9/2002 | Fukatsu et al. | | D24/165 |
| 6,725,075 | B2 | 4/2004 | Al-Ali | | |
| D492,783 | S * | 7/2004 | Lax | | D24/167 |
| 6,839,585 | B2 | 1/2005 | Lowery et al. | | |
| 6,920,345 | B2 | 7/2005 | Al-Ali et al. | | |
| 7,225,007 | B2 | 5/2007 | Al-Ali et al. | | |
| D557,423 | S * | 12/2007 | Chen et al. | | D24/187 |
| 7,486,977 | B2 | 2/2009 | Sweitzer et al. | | |
| D603,966 | S * | 11/2009 | Jones et al. | | D24/165 |
| 7,736,310 | B2 | 6/2010 | Taub | | |
| 2005/0197550 | A1* | 9/2005 | Al-Ali et al. | | 600/323 |
| 2005/0228299 | A1 | 10/2005 | Banet | | |
| 2007/0142715 | A1 | 6/2007 | Banet et al. | | |
| 2007/0244378 | A1 | 10/2007 | Al-Ali et al. | | |

FOREIGN PATENT DOCUMENTS

WO WO 2007/015833 A2 2/2007

OTHER PUBLICATIONS

Thomsen et al., Distributed Sensors: Applications, Fabrication and Challenges.

Dunn et al., A Novel Ring Shaped Photodiode for Reflectance Pulse Oximetry in Wireless Applications, IEEE Sensors 2007 Conference, 2007, pp. 596-599.

Netguard Technical Handbook, 2010, Mindray DS USA, Inc.
PureLight SpO2 Sensors Product Brochure, 2005, Nonin Medical, Inc.

Dresher, Wearable Forehead Pulse Oximetry: Minimization of Motion and Pressure Artifacts, A Thesis Submitted to the Faculty of the Worcester Polytechnic Institute, May 3, 2006.

Haahr et al., A Wearable "Electronic Patch" for Wireless Continuous Monitoring of Chronically Diseased Patients, IEEE, Proceedings of the 5th International Workshop on Wearable and Implantable Body Sensors, Sensor Network, in conjunction with the 5th International Summer School and Symposium on Medical Devices and Biosensors, The Chinese University of Hong Kong, HKSAR, China, Jun. 1-3, 2008, pp. 66-70.

* cited by examiner

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(57) **CLAIM**

The ornamental design for a pulse oximeter, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a pulse oximeter according to our new design;

FIG. 2 is a left side elevational view thereof, the right side elevational view being a mirror image;

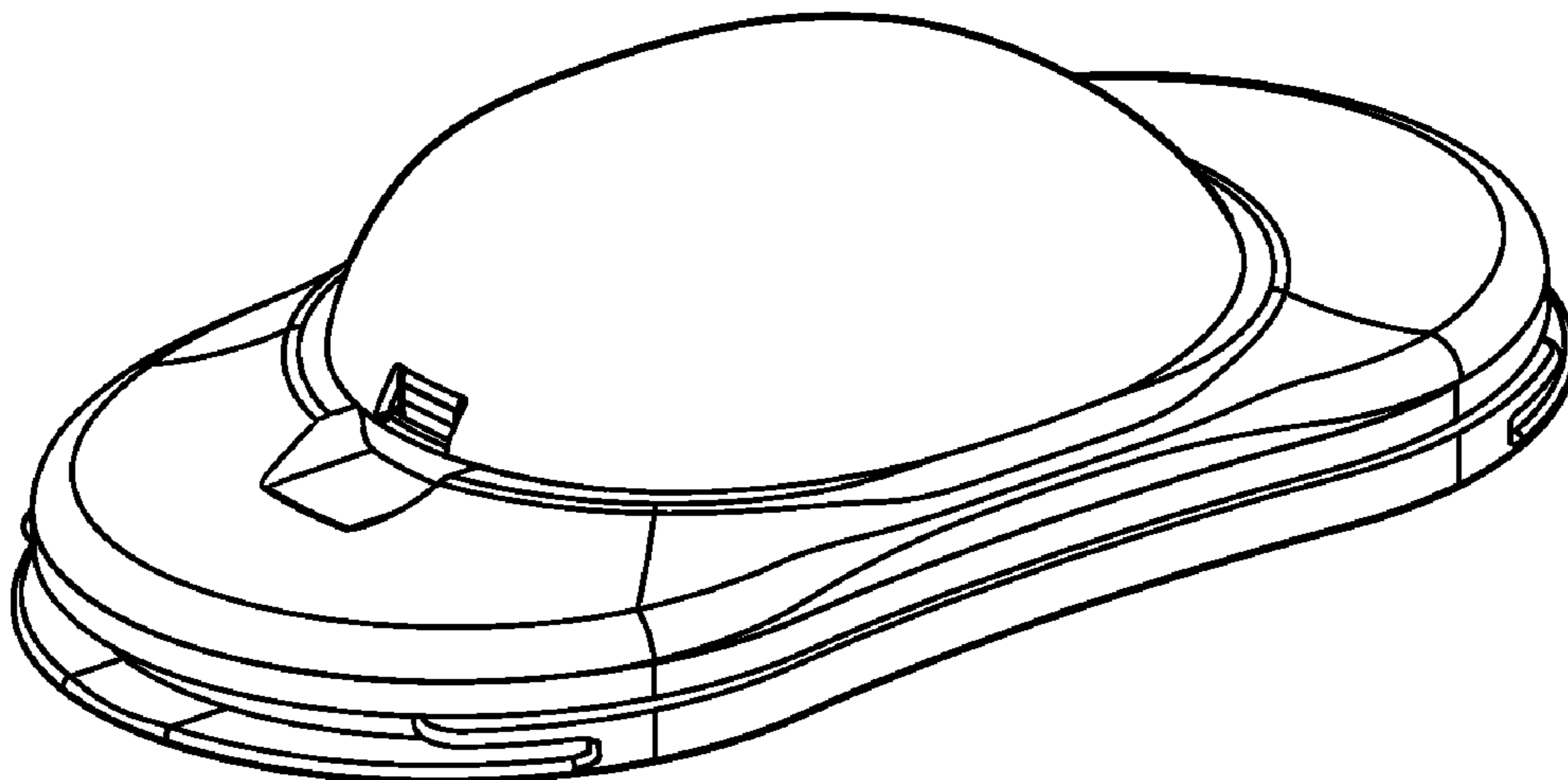
FIG. 3 is a front elevational view thereof;

FIG. 4 is a rear elevational view thereof;

FIG. 5 is top plan view thereof; and,

FIG. 6 is a bottom plan view thereof.

1 Claim, 4 Drawing Sheets



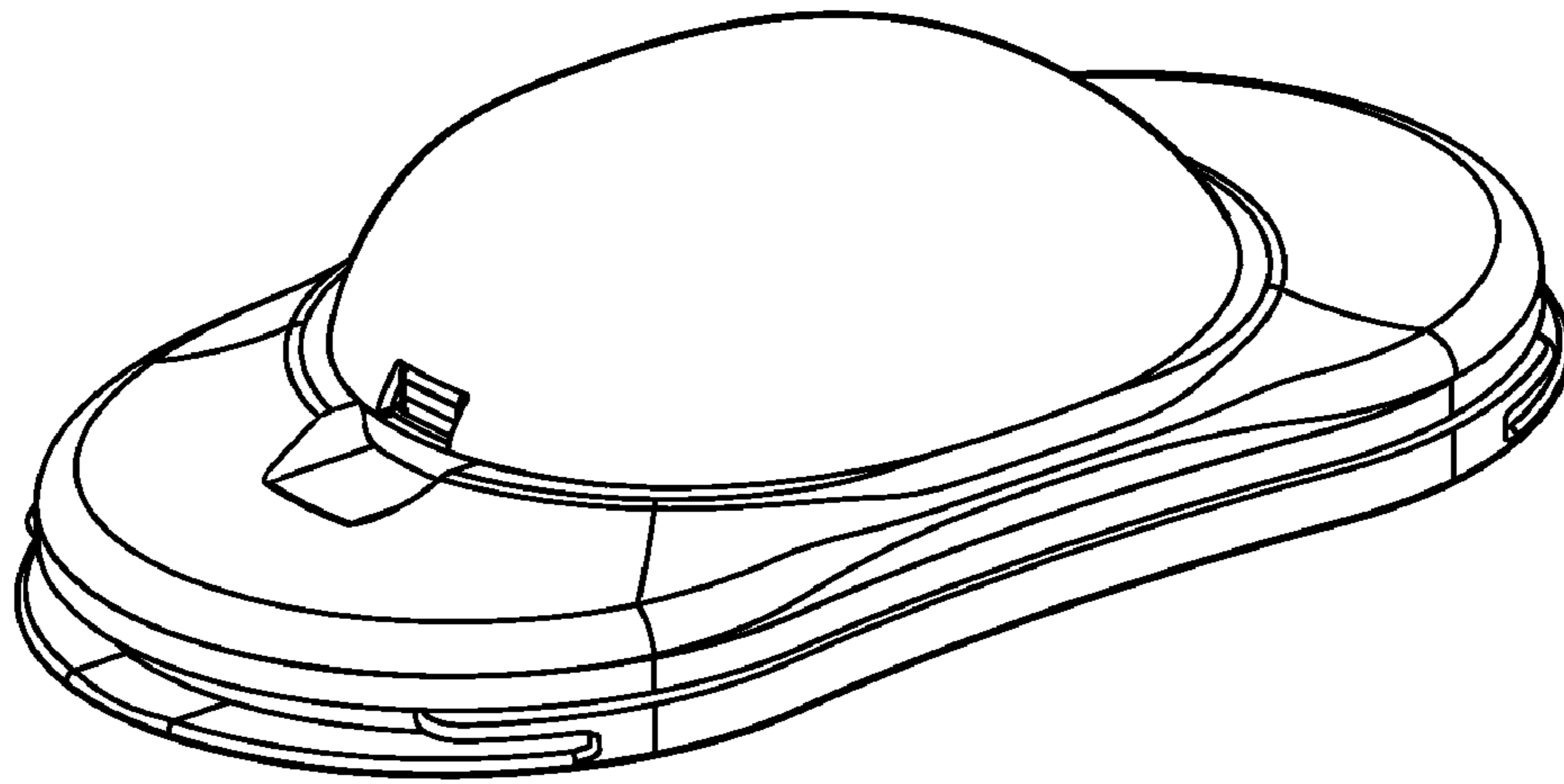


Fig. 1

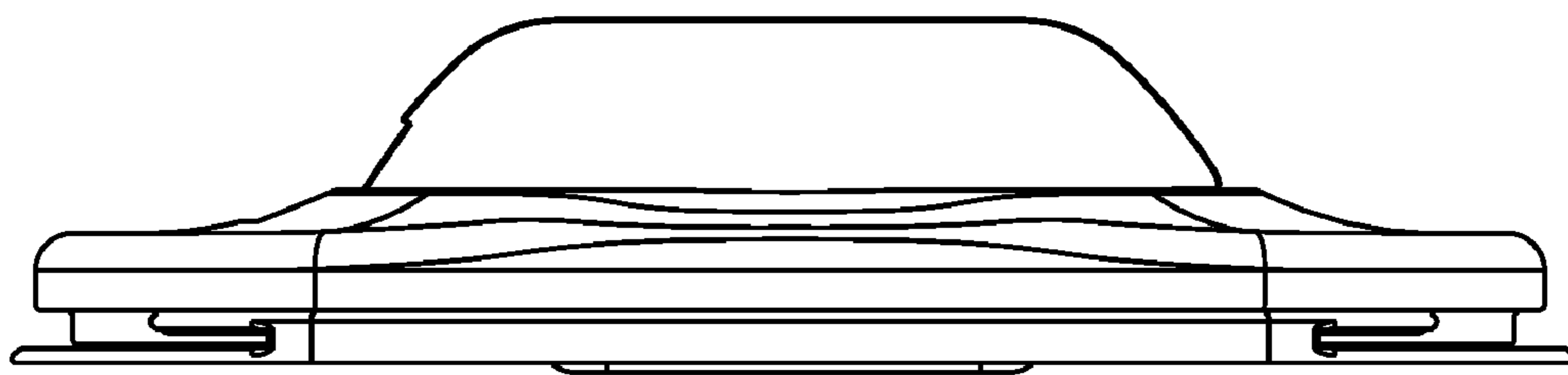


Fig. 2

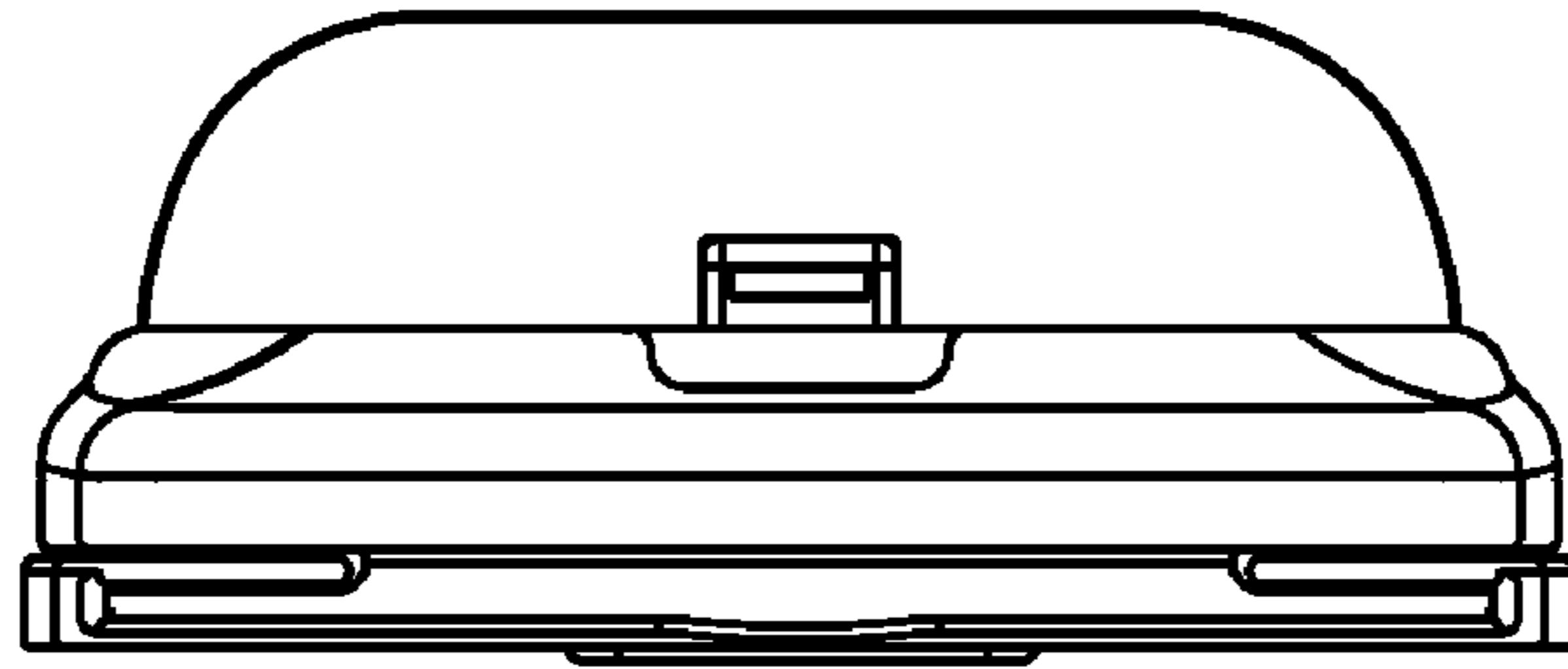


Fig. 3

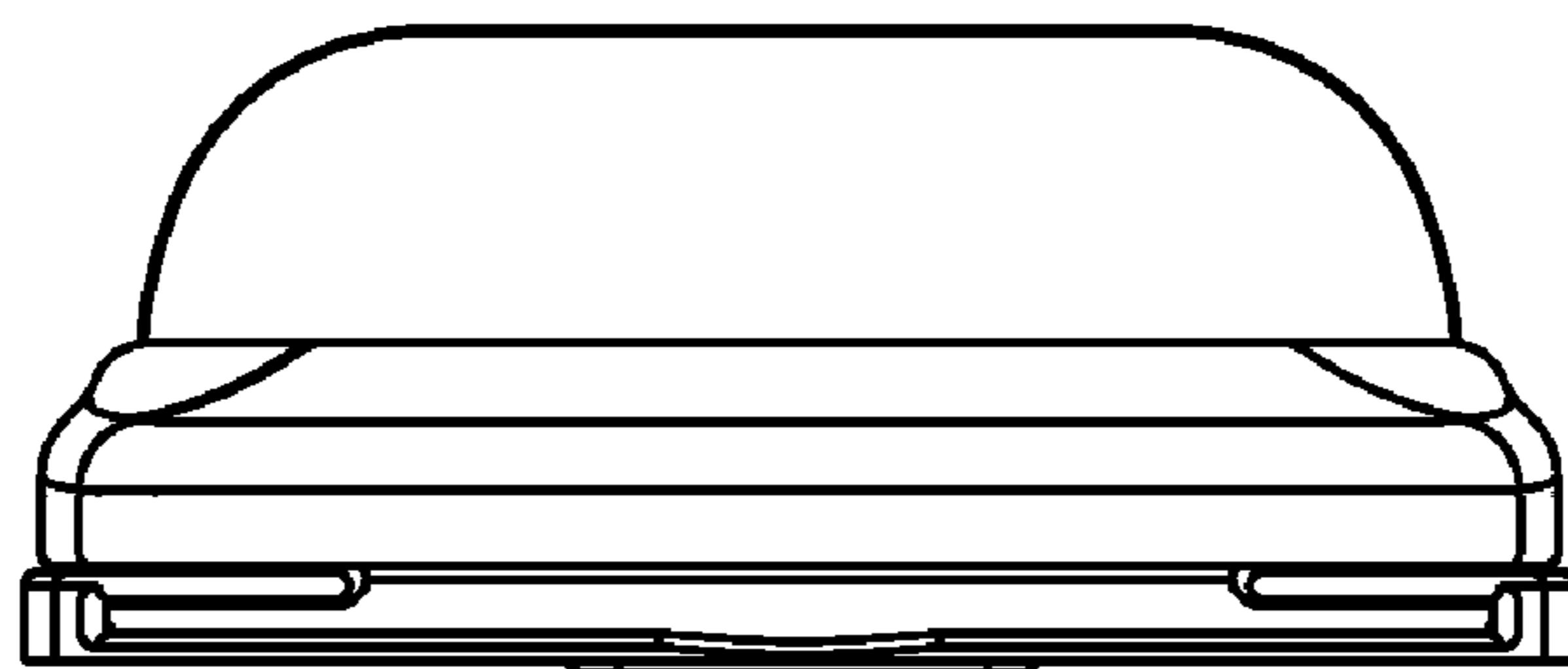


Fig. 4

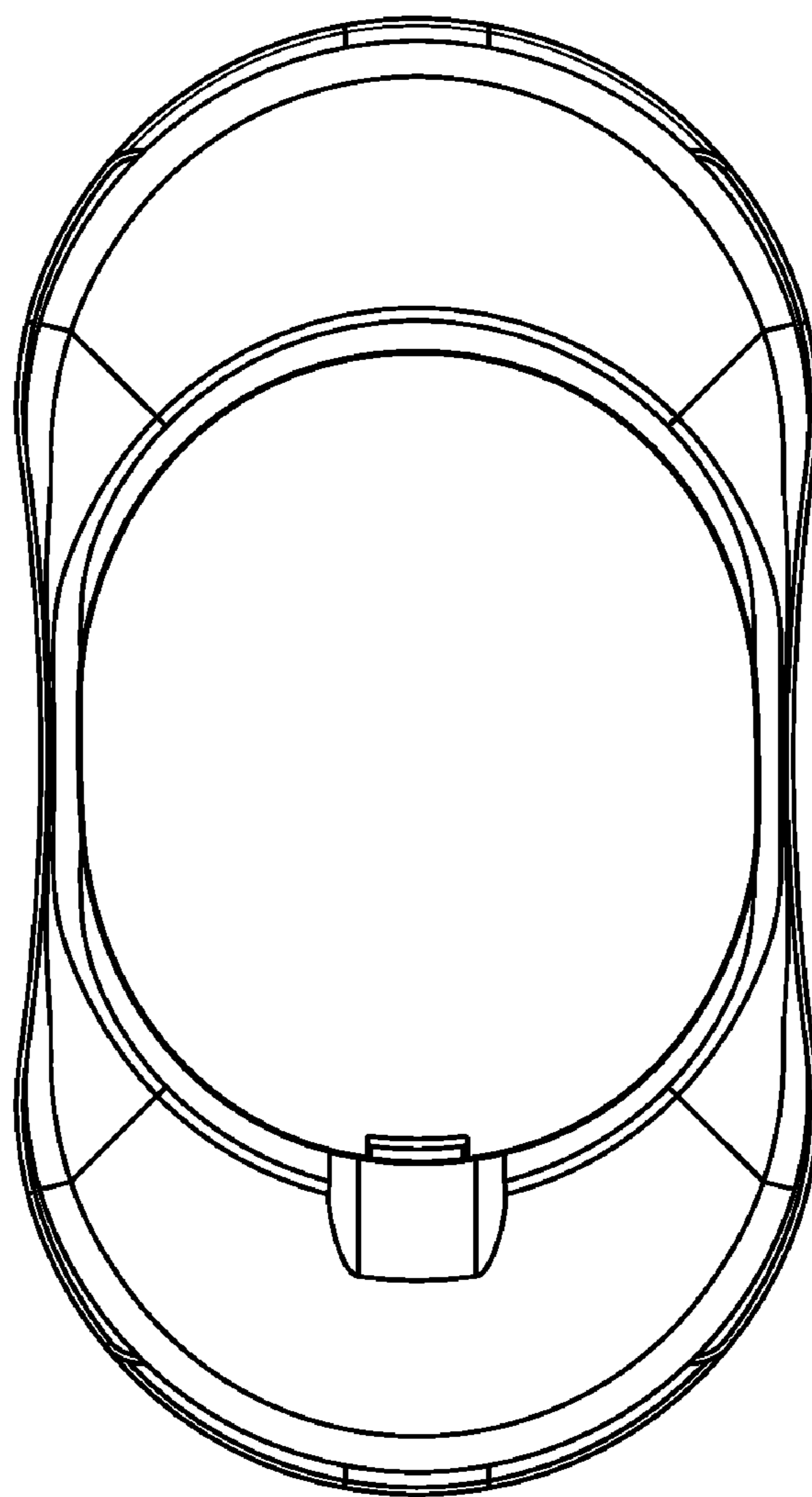


Fig. 5

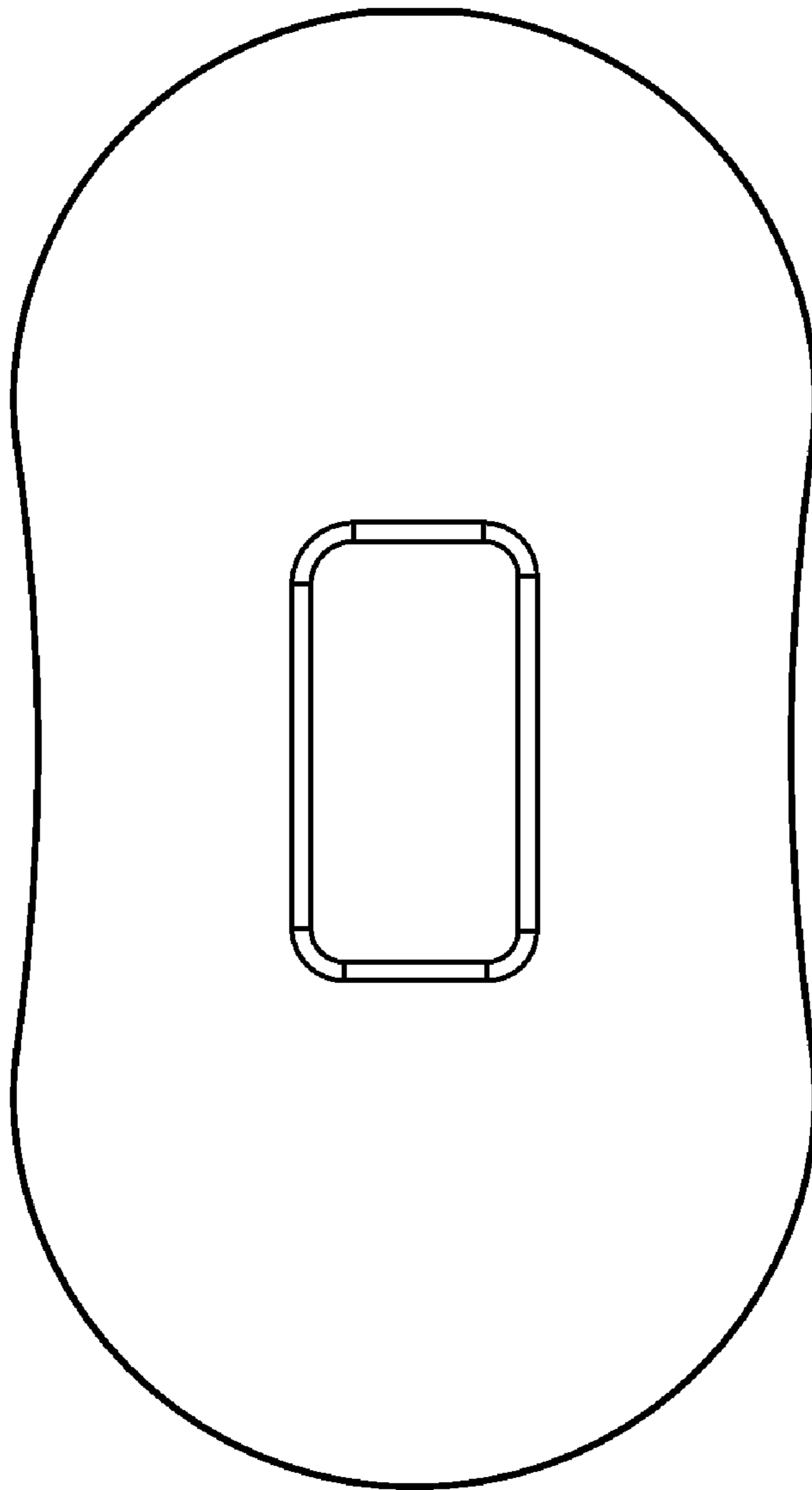


Fig. 6

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : D643,929 S
APPLICATION NO. : 29/377303
DATED : August 23, 2011
INVENTOR(S) : James J. DelloStritto et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title page of the patent, item (73) Assignee:, the Assignee "Blue Highway, LLC, Syracuse, NY (US)", should be replaced with -- Welch Allyn, Inc., Skaneateles Falls, NY (US) --

Signed and Sealed this
Eighth Day of November, 2011

A handwritten signature in black ink that reads "David J. Kappos". The signature is written in a cursive style with a large initial "D" and "K".

David J. Kappos
Director of the United States Patent and Trademark Office

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This certificate supersedes the Certificate of Correction issued November 8, 2011.

Signed and Sealed this
Fourteenth Day of February, 2012

A handwritten signature in black ink that reads "David J. Kappos". The signature is written in a cursive style with a large initial 'D' and 'K'.

David J. Kappos
Director of the United States Patent and Trademark Office