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(12) **United States Design Patent** (10) **Patent No.:** **US D854,167 S**  
**Bahney et al.** (45) **Date of Patent:** **\*\* Jul. 16, 2019**

(54) **PHYSIOLOGICAL MONITORING DEVICE**

(56) **References Cited**

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U.S. PATENT DOCUMENTS

D408,541 S 4/1999 Dunshee et al.  
6,178,357 B1 1/2001 Gliner et al.  
6,434,410 B1 8/2002 Cordero et al.  
6,580,942 B1 6/2003 Willshire  
D492,607 S 7/2004 Curkovic et al.

(Continued)

FOREIGN PATENT DOCUMENTS

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CN 303936805 11/2016  
EM 001857996-0001 5/2011

(Continued)

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

OTHER PUBLICATIONS

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Design Search Project Overview as referenced in Petition to Request Expedited Examination.

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**Related U.S. Application Data**

(63) Continuation of application No. 16/006,719, filed on Jun. 12, 2018, which is a continuation of application No. 14/162,656, filed on Jan. 23, 2014, now abandoned.

(57) **CLAIM**

The ornamental design for a physiological monitoring device, as shown and described.

(51) **LOC (11) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/186**

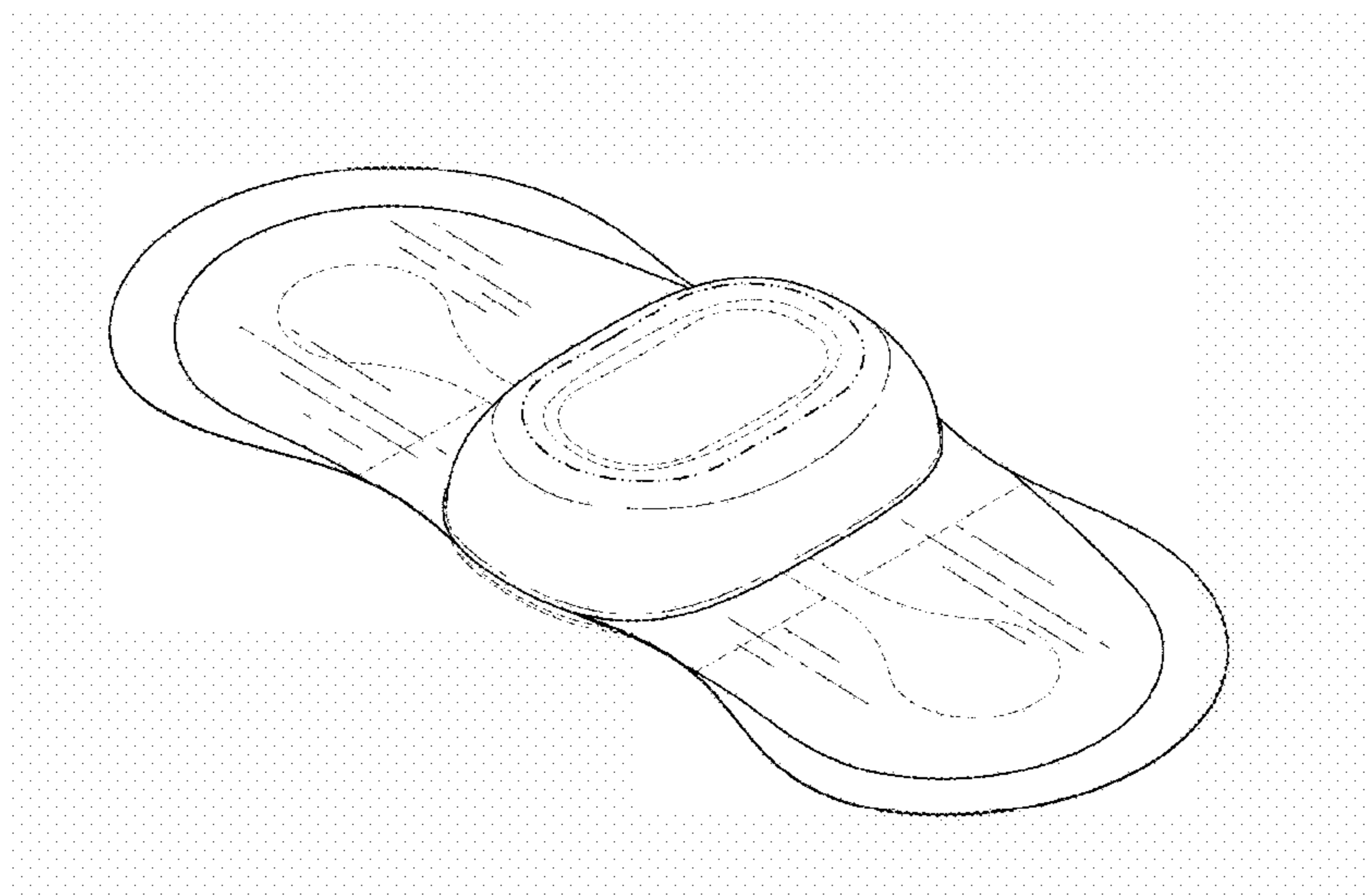
(58) **Field of Classification Search**  
USPC ..... D24/130, 165–169, 186, 187, 189, 190, D24/200; D14/344; D10/98  
CPC ... A61B 5/0006; A61B 5/0022; A61B 5/0202; A61B 5/04012; A61B 5/04087; A61B 5/681; A61B 5/6824; A61B 5/6832; A61B 5/6833; A61B 5/68335; A61B 5/684; A61B 2560/0406; A61B 2560/0412; A61B 2560/0468

**DESCRIPTION**

FIG. 1 is a perspective view of a physiological monitoring device, showing our new design;  
FIG. 2 is a front elevational view thereof, a rear elevational view being identical thereto;  
FIG. 3 is a left side elevational view thereof, a right side elevational view being a mirror image thereof;  
FIG. 4 is a top plan view thereof; and,  
FIG. 5 is a bottom plan view thereof.  
The dot-dot-dash lines in the figures represent the bounds of the claim, while all other broken lines are directed to environment and are for illustrative purposes only; the broken lines form no part of the claimed design.

See application file for complete search history.

**1 Claim, 4 Drawing Sheets**



(56)

References Cited

FOREIGN PATENT DOCUMENTS

U.S. PATENT DOCUMENTS

D567,949 S 4/2008 Lash et al.  
 D584,414 S 1/2009 Lash et al.  
 D618,357 S 6/2010 Navies  
 D639,437 S 6/2011 Bishay et al.  
 D645,968 S 9/2011 Kasabach et al.  
 8,150,502 B2 4/2012 Kumar et al.  
 8,160,682 B2 4/2012 Kumar et al.  
 D663,432 S 7/2012 Nichols  
 8,244,335 B2 8/2012 Kumar et al.  
 D674,099 S 1/2013 Nichols  
 8,386,009 B2 2/2013 Lindberg et al.  
 8,538,503 B2 9/2013 Kumar et al.  
 8,560,046 B2 10/2013 Kumar et al.  
 D719,267 S 12/2014 Vaccarella  
 D744,659 S 12/2015 Bishay et al.  
 9,241,649 B2 1/2016 Kumar et al.  
 D759,653 S 6/2016 Toth et al.  
 D766,447 S 9/2016 Bishay et al.  
 D775,361 S 12/2016 Vosch et al.  
 D780,914 S 3/2017 Kyvik et al.  
 9,585,584 B2\* 3/2017 Marek ..... A61B 5/0404  
 9,597,004 B2\* 3/2017 Hughes ..... A61B 5/6832  
 D793,566 S 8/2017 Bishay et al.  
 D797,301 S 9/2017 Chen  
 D797,943 S 9/2017 Long  
 D798,170 S 9/2017 Toth et al.  
 D798,294 S 9/2017 Toth et al.  
 D810,308 S 2/2018 Lind et al.  
 D811,610 S 2/2018 Abel et al.  
 D811,611 S 2/2018 Lind et al.  
 D811,615 S 2/2018 Lind et al.  
 9,955,887 B2\* 5/2018 Hughes ..... A61B 5/6832  
 D823,466 S\* 7/2018 Marogil ..... D24/169  
 D824,526 S 7/2018 Ramjit et al.  
 10,098,559 B2\* 10/2018 Hughes ..... A61B 5/04087  
 2004/0236202 A1 11/2004 Burton  
 2008/0139953 A1 6/2008 Baker et al.  
 2009/0076340 A1 3/2009 Libbus et al.  
 2011/0237922 A1 9/2011 Parker, III et al.  
 2012/0071743 A1 3/2012 Todorov et al.  
 2012/0310070 A1 12/2012 Kumar et al.  
 2014/0206976 A1 7/2014 Thompson et al.  
 2014/0206977 A1 7/2014 Bahney et al.  
 2016/0120433 A1\* 5/2016 Hughes ..... A61B 5/6832  
 600/483  
 2016/0120434 A1\* 5/2016 Park ..... A61B 5/6832  
 600/301  
 2016/0135746 A1 5/2016 Kumar et al.  
 2017/0055896 A1\* 3/2017 Al-Ali ..... A61B 5/002

EM 003611714-0001 1/2017  
 EM 003611714-0002 1/2017  
 EM 003611714-0003 1/2017  
 EM 003611714-0004 1/2017  
 EM 003611714-0005 1/2017  
 IN 002592907-0001 12/2014  
 JP 1483906 S 10/2013  
 JP D1596476 8/2018  
 KR 3003784570000 3/2005  
 KR 3008476060000 3/2016  
 KR 3008476090000 3/2016  
 KR 3008482960000 3/2016  
 KR 3008584120000 6/2016  
 KR 3008953750000 2/2017  
 KR 3008953760000 2/2017  
 KR 3008987790000 3/2017  
 KR 3009445870000 2/2018  
 KR 3009547690000 4/2018  
 KR 3009547710000 4/2018

OTHER PUBLICATIONS

Prakash, New Patch-Based Wearable Sensor Combines Advanced Skin Adhesives and Sensor Technologies, Advantage Business Marketing, Jul. 17, 2012.  
 Altini, et al., An ECG Patch Combining a Customized Ultra-Low-Power ECG Soc With Bluetooth Low Energy for Long Term Ambulatory Monitoring, Conference: Proceedings of Wireless Health 2011, WH 2011, Oct. 10-13, 2011.  
 Comstock, Proteus Digital Health Quietly Launches Consumer-Facing Wearable for Athletes, Mobile Health News, Oct. 29, 2014.  
 Strong, Wearable Technologies Conference 2013 Europe—Notes and Roundup, Wearable Technologies Conference, Feb. 8, 2013.  
 Coxworth, Small Adhesive Patch Outperforms Traditional Tech for Detecting Arrhythmia, Scripps, iRhythm Technologies, Jan. 3, 2014.  
 British-Made Early Warning Monitor a “Game Changer”, healthcare-in-europe.com, Mar. 31, 2014.  
 Medtronic Launches SEEQ Wearable Cardiac Monitoring System in United States, Diagnostic and Interventional Cardiology, Oct. 7, 2014.  
 Sumner, Stanford Engineers Monitor Heart Health Using Paper-Thin Flexible ‘Skin’, Stanford Report, May 14, 2013.

\* cited by examiner

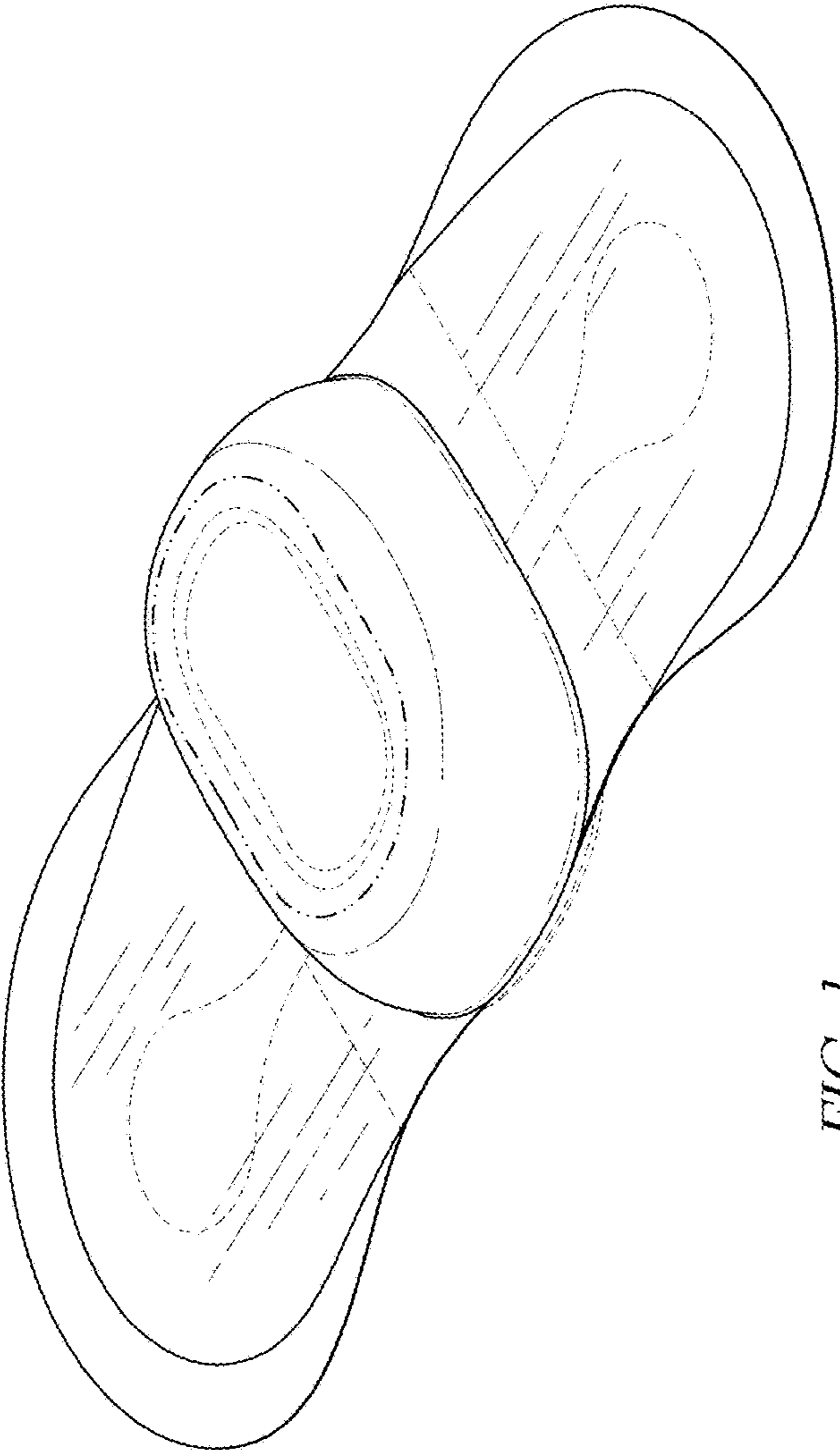


FIG. 1

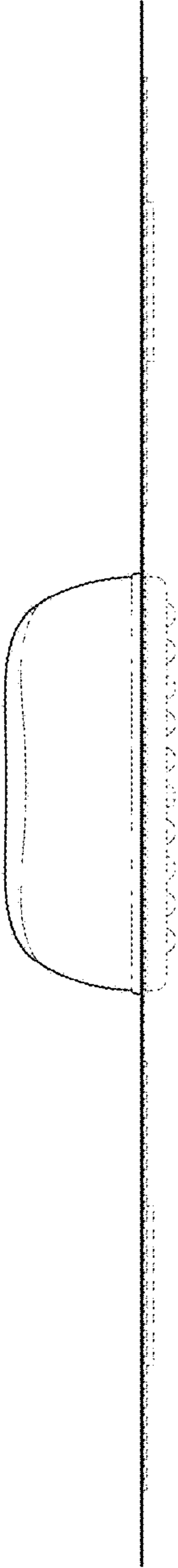


FIG. 2

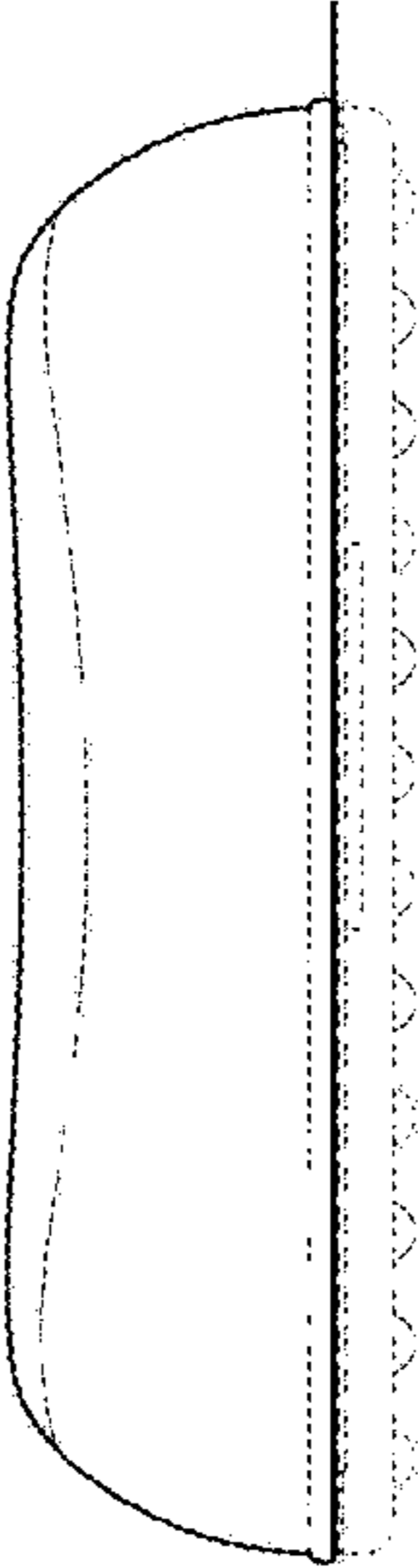


FIG. 3

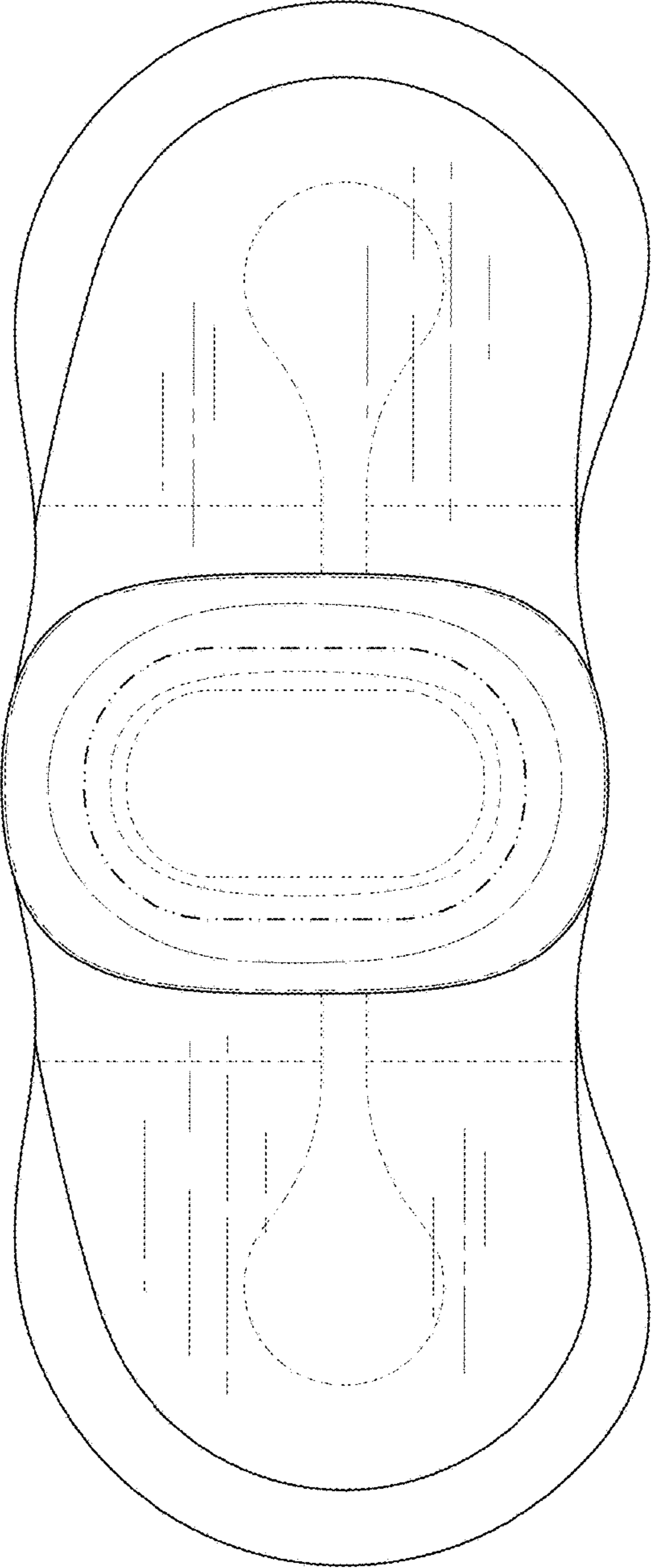


FIG. 4

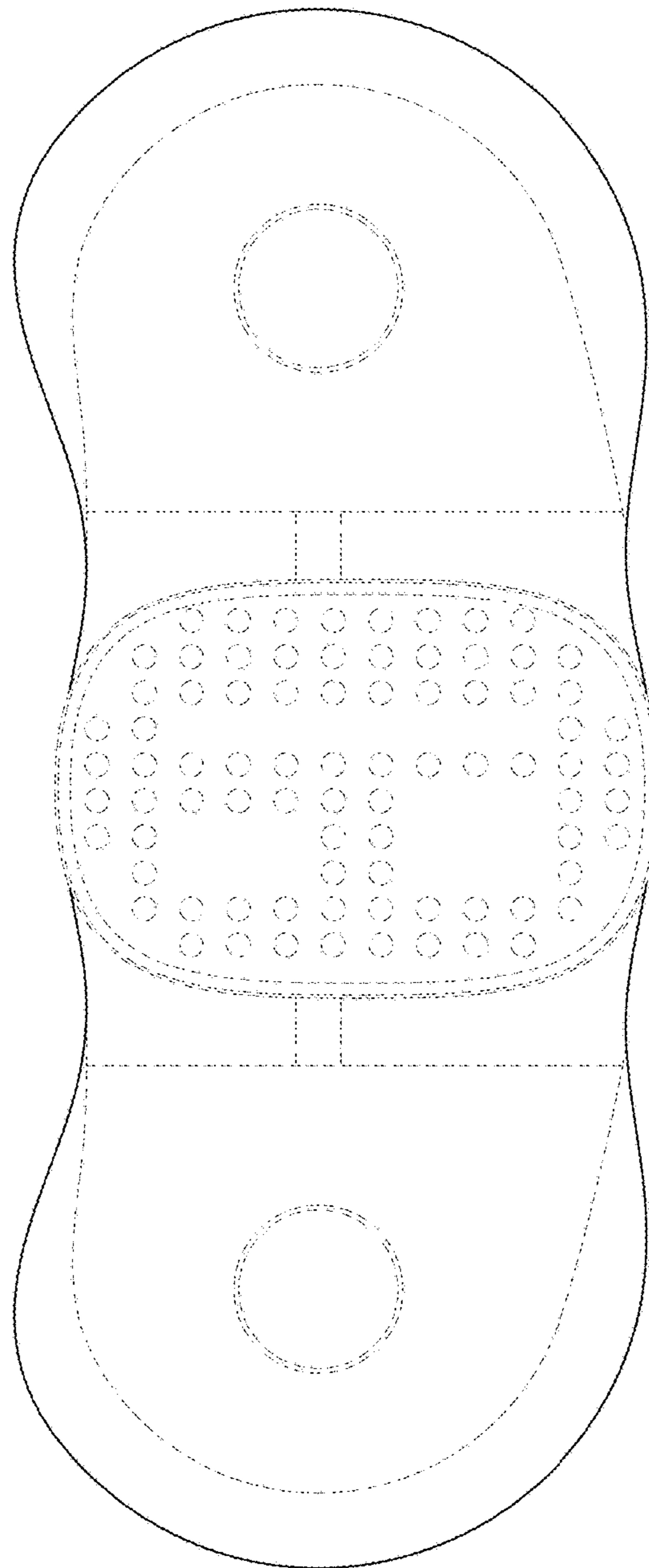


FIG. 5