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(12) **United States Design Patent** (10) **Patent No.:** **US D829,794 S**
Wang (45) **Date of Patent:** **** Oct. 2, 2018**

(54) **DOCKING STATION FOR ROBOT**

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(52) **U.S. Cl.**
USPC **D15/199**

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H02J 7/0052; Y10S 901/01

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D474,735 S * 5/2003 Lee D13/108
D510,066 S * 9/2005 Hickey D13/108
D521,928 S * 5/2006 Shimizu D13/108
D562,230 S * 2/2008 Houghton D13/107
D639,735 S * 6/2011 Lee D13/108

D657,741 S * 4/2012 Fahrendorff D13/108
D664,958 S * 8/2012 McManigal D14/434
D776,054 S * 1/2017 Cmich D13/108
9,931,750 B2 * 4/2018 Cohen B25J 9/1664
2005/0156562 A1 * 7/2005 Cohen A47L 9/2857
320/107
2007/0142964 A1 * 6/2007 Abramson A01D 34/008
700/245
2007/0226949 A1 * 10/2007 Hahm A47L 9/009
15/340.1
2008/0004751 A1 * 1/2008 Chung G05D 1/0225
700/258
2008/0201895 A1 * 8/2008 Kim A47L 9/106
15/319

(Continued)

OTHER PUBLICATIONS

www.suitabletech.com/products/beam; Jul. 5, 2017; 3 pages.

(Continued)

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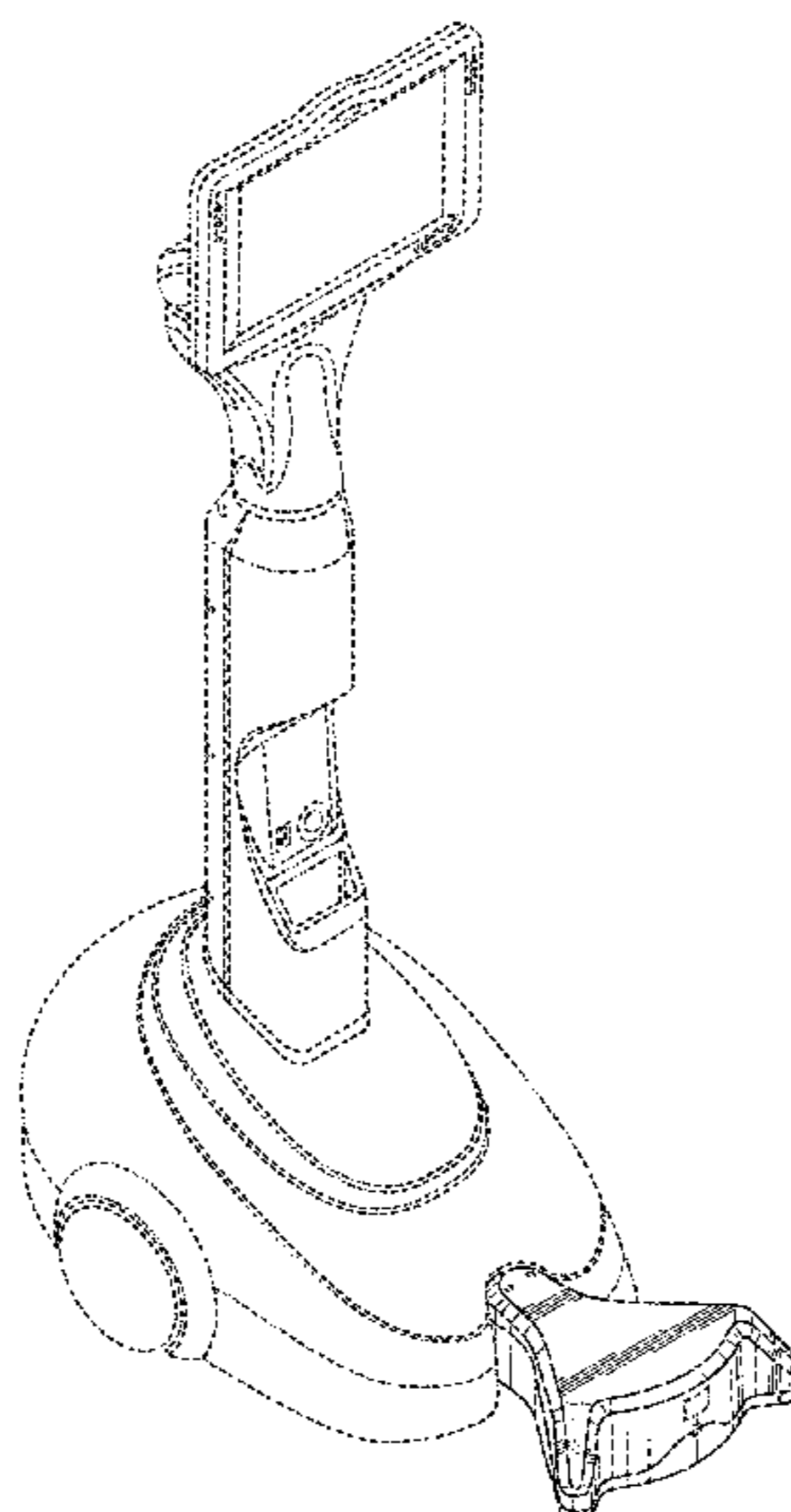
(57) **CLAIM**

The ornamental design for a docking station for a robot, as shown and described.

DESCRIPTION

FIG. 1 is perspective view of the docking station for a robot showing our new design with a robot;
FIG. 2 is a perspective view of the docking station for a robot showing our new design by itself;
FIG. 3 is a front view thereof;
FIG. 4 is right side view thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a rear view thereof;
FIG. 7 is a left side view thereof; and,
FIG. 8 is bottom view thereof.
The broken lines in the drawings depict unclaimed environmental subject matter.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2010/0324736 A1* 12/2010 Yoo G05D 1/0225
700/259
2013/0335900 A1* 12/2013 Jang A47L 5/24
361/679.01
2014/0184144 A1* 7/2014 Henricksen B25J 9/0003
320/107
2014/0214205 A1* 7/2014 Kwon A47L 9/2826
700/258
2015/0314453 A1* 11/2015 Witelson B25J 11/00
320/108
2016/0088755 A1* 3/2016 Lee A47L 11/4027
361/731
2016/0229058 A1* 8/2016 Pinter G06Q 50/22
2017/0043966 A1* 2/2017 Witelson B65G 67/04
2017/0050311 A1* 2/2017 Yoo G05B 19/416
2018/0098676 A1* 4/2018 Ryu A47L 9/2805

OTHER PUBLICATIONS

www.doublerobotics.com/; Jul. 15, 2017; 5 pages.
www.amyrobotics.com/robot/; Nov. 6, 2017; 4 pages.
www.padbot.com/; Jun. 28, 2017; 3 pages.
www.en.sanbot.com/newsPro/design; Jun. 16, 2017; 8 pages.
<http://en.sanbot.com/newsPro/design.html>; 8 pages.

* cited by examiner

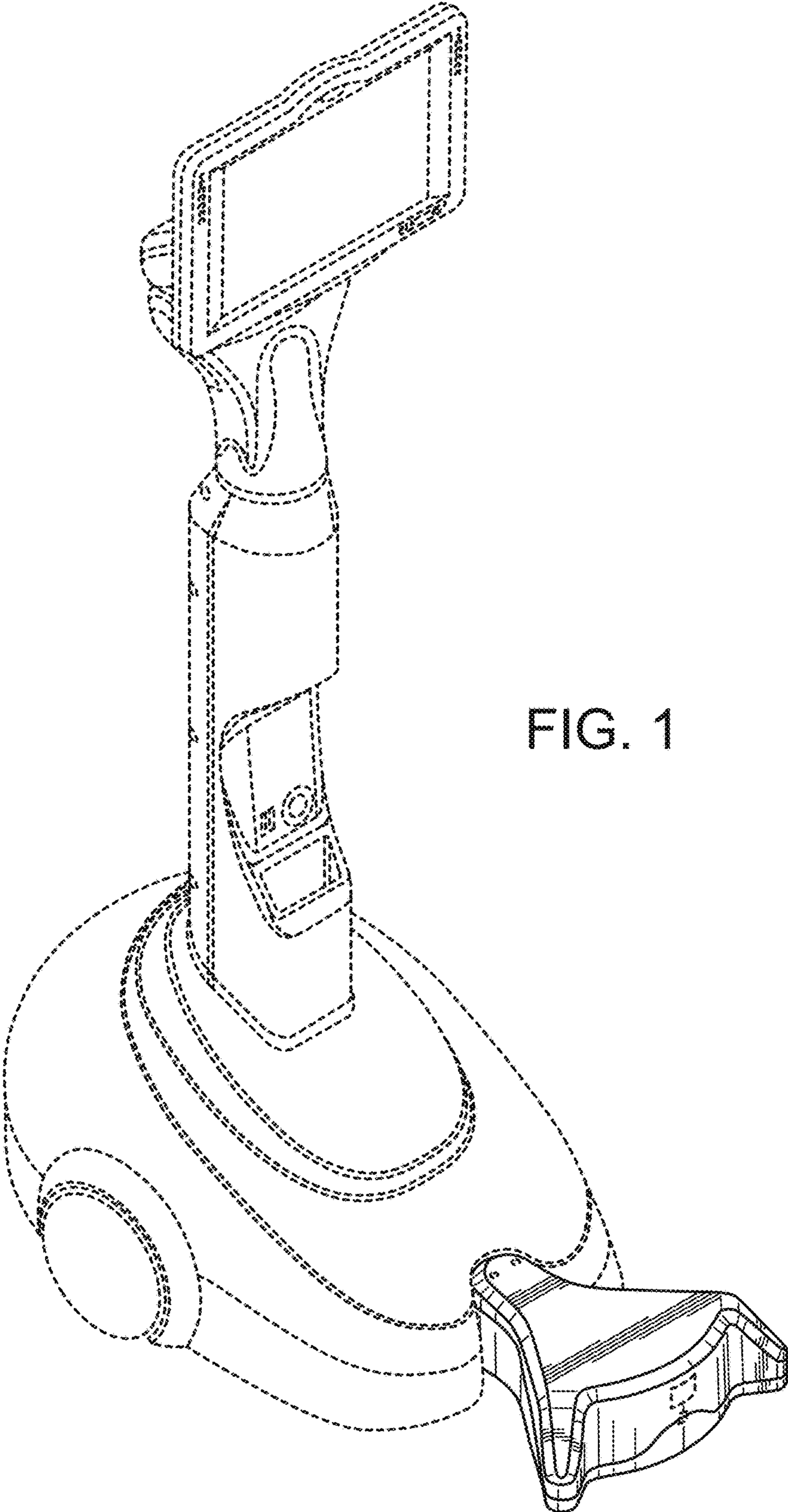


FIG. 1

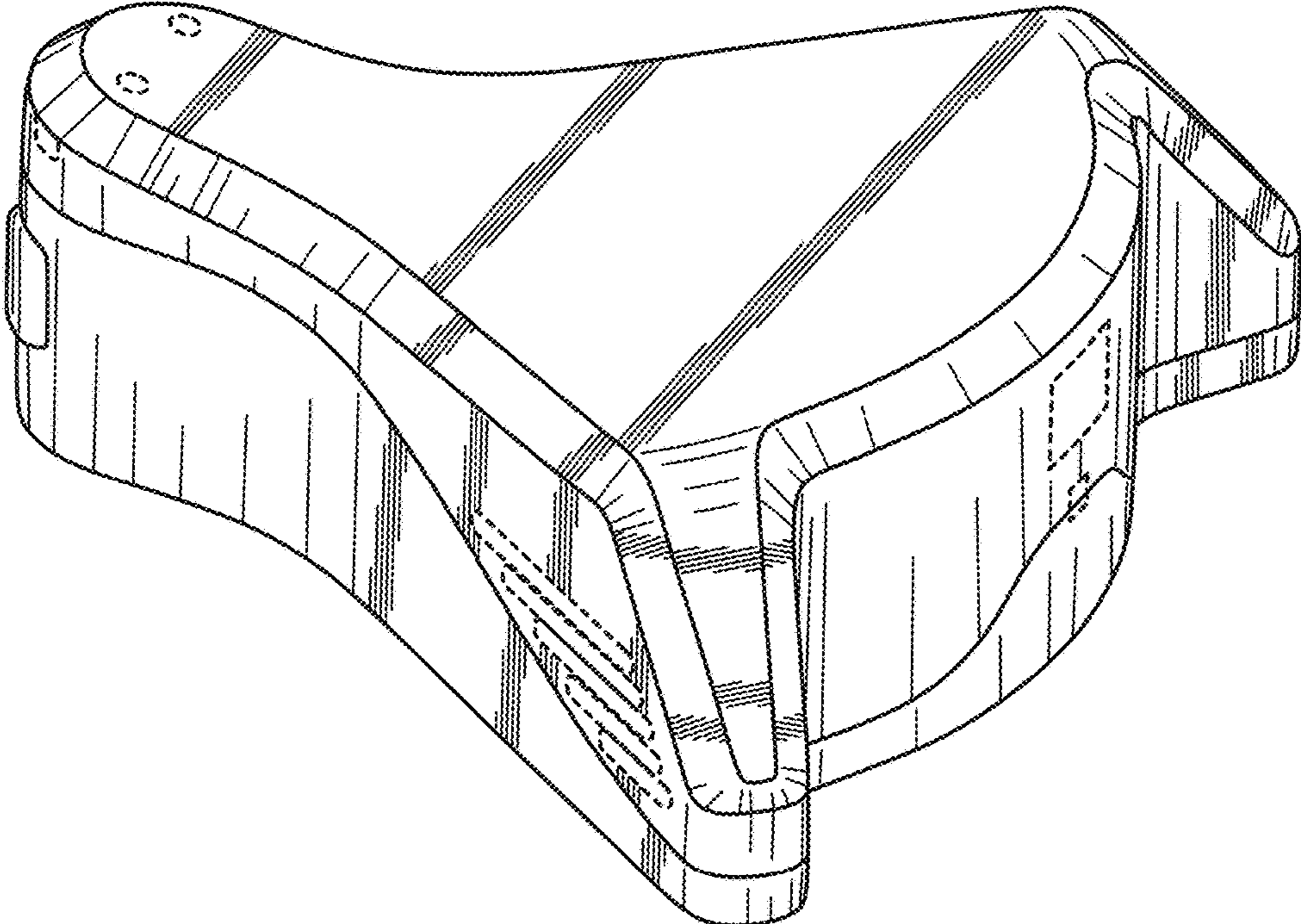


FIG. 2

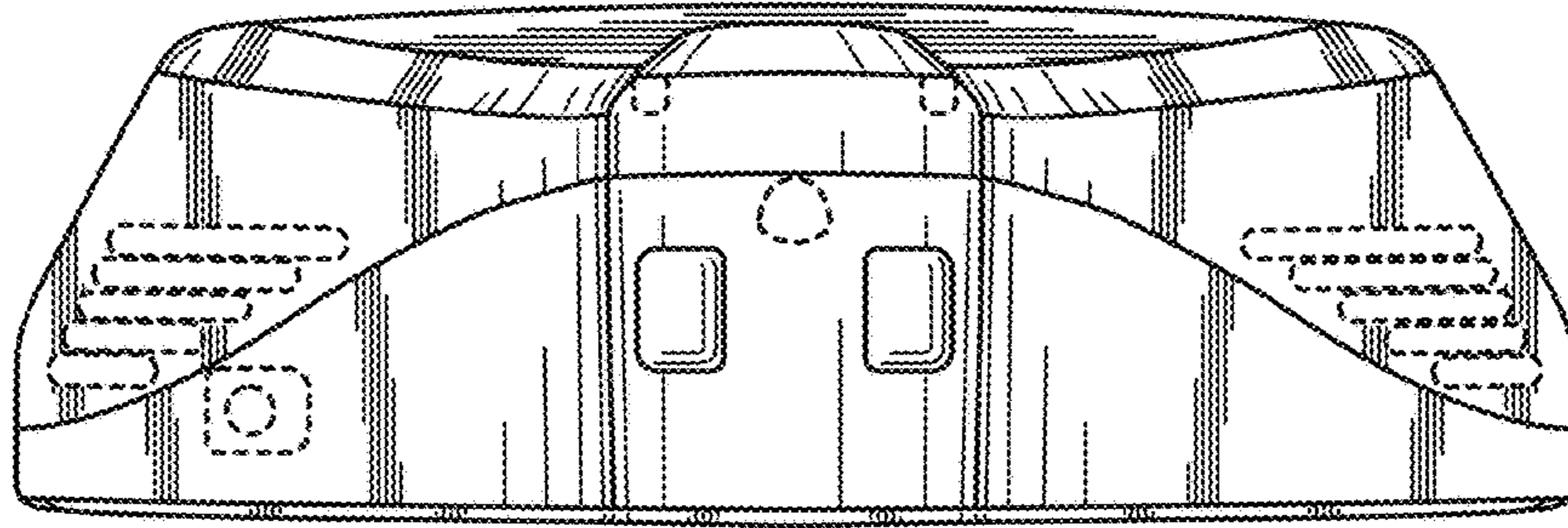


FIG. 3

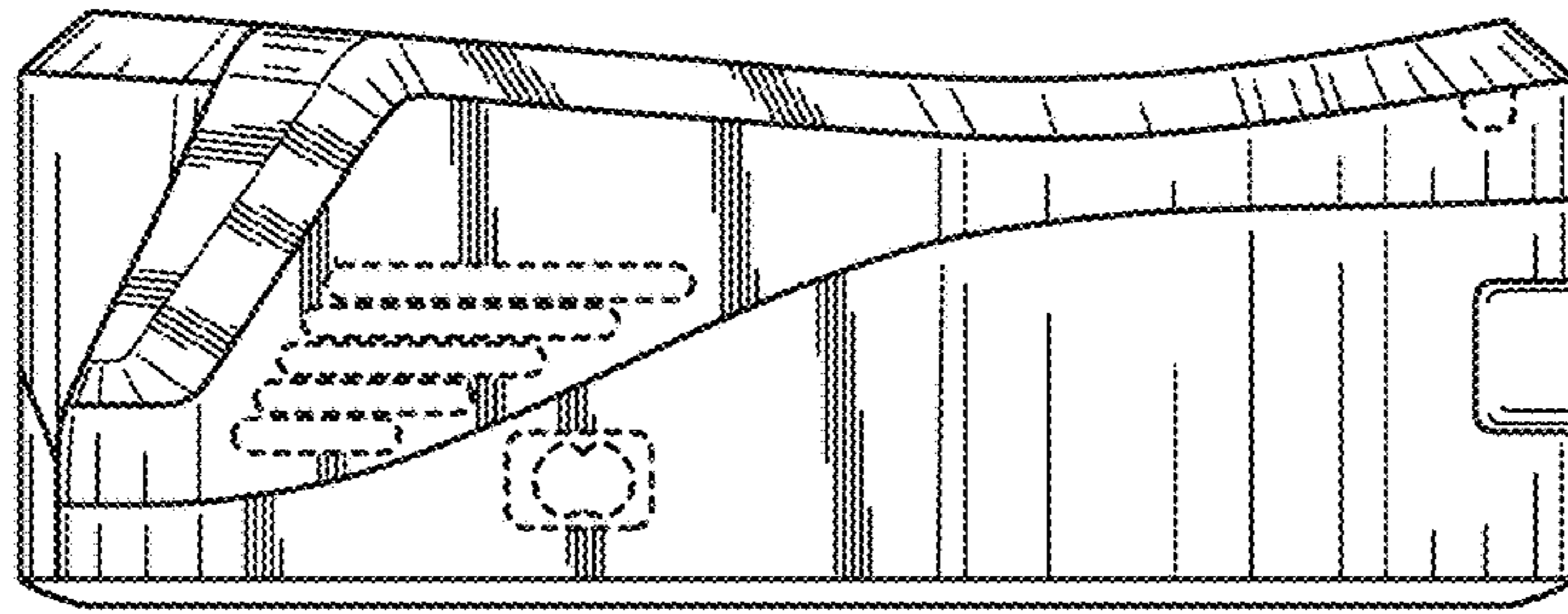


FIG. 4

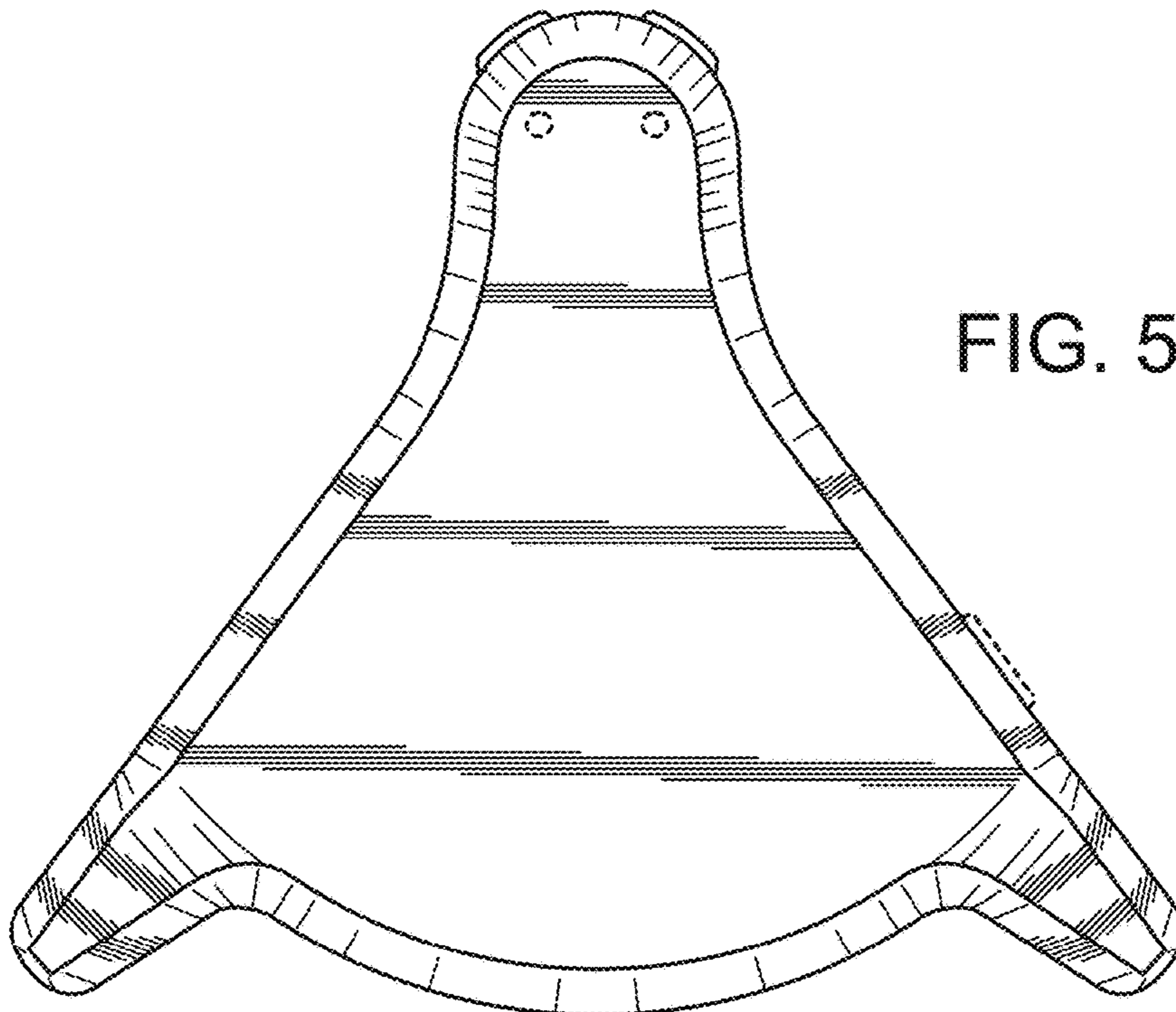


FIG. 5

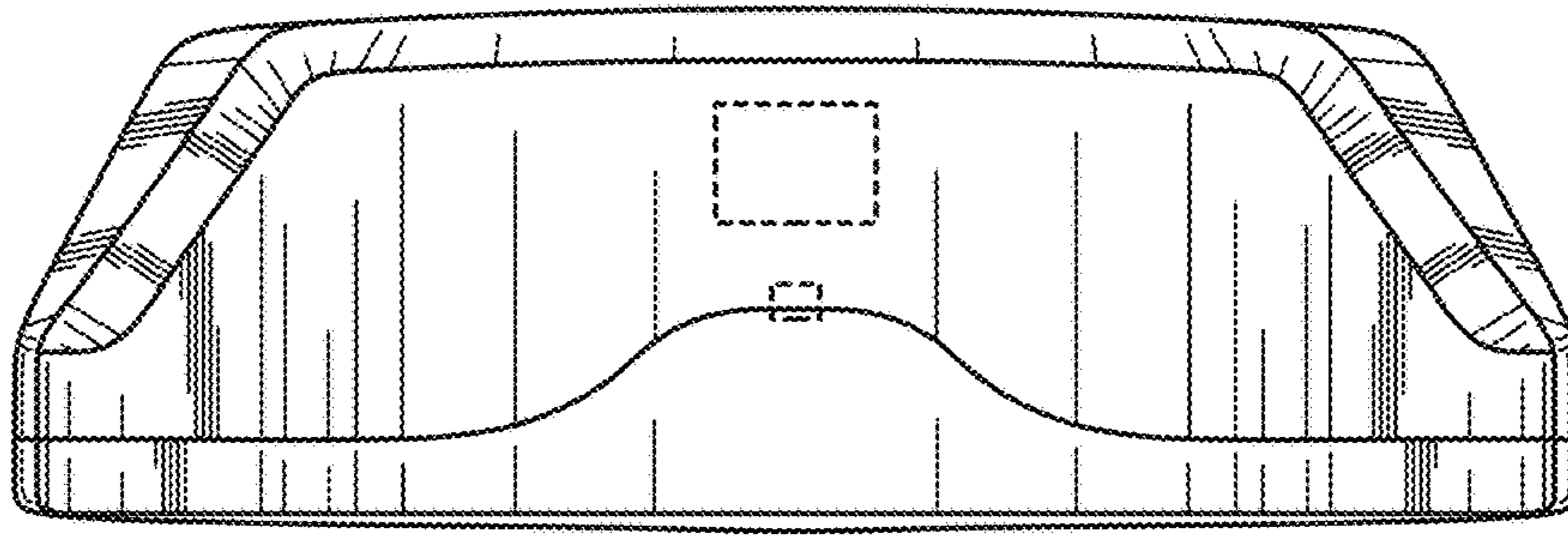


FIG. 6

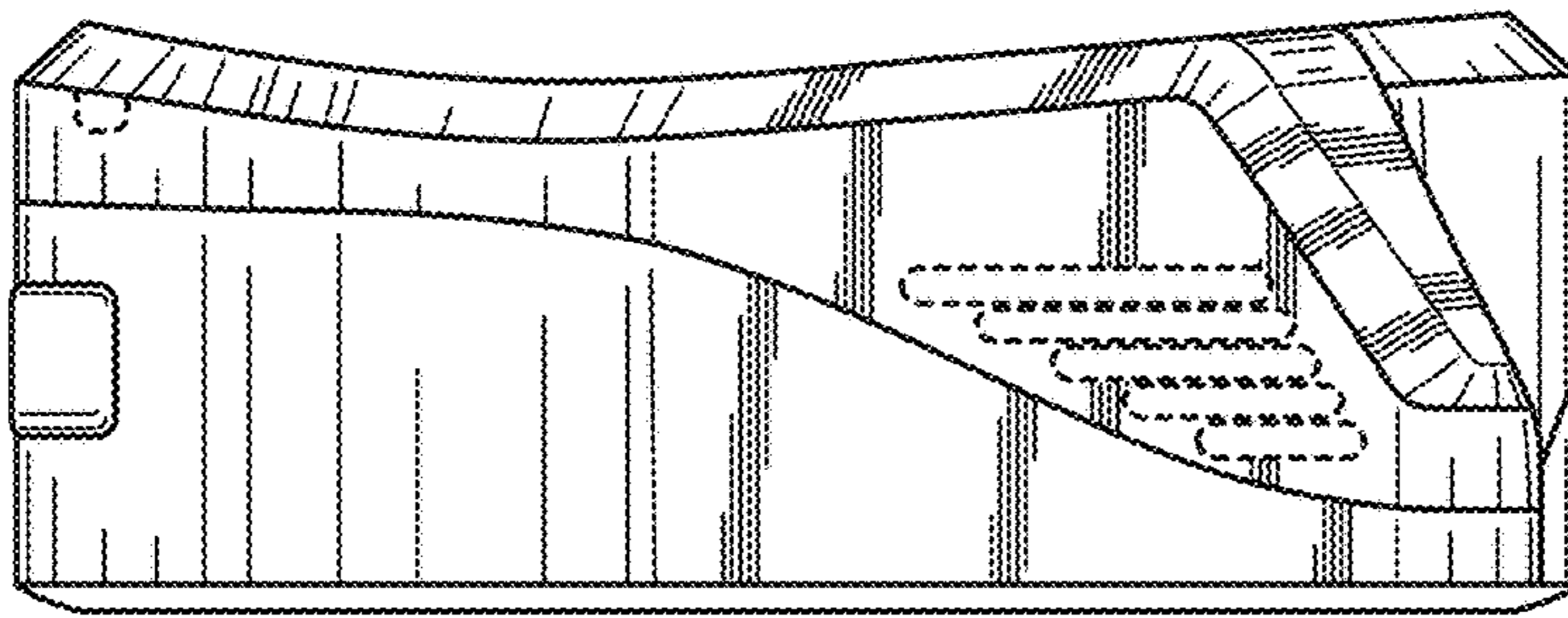


FIG. 7

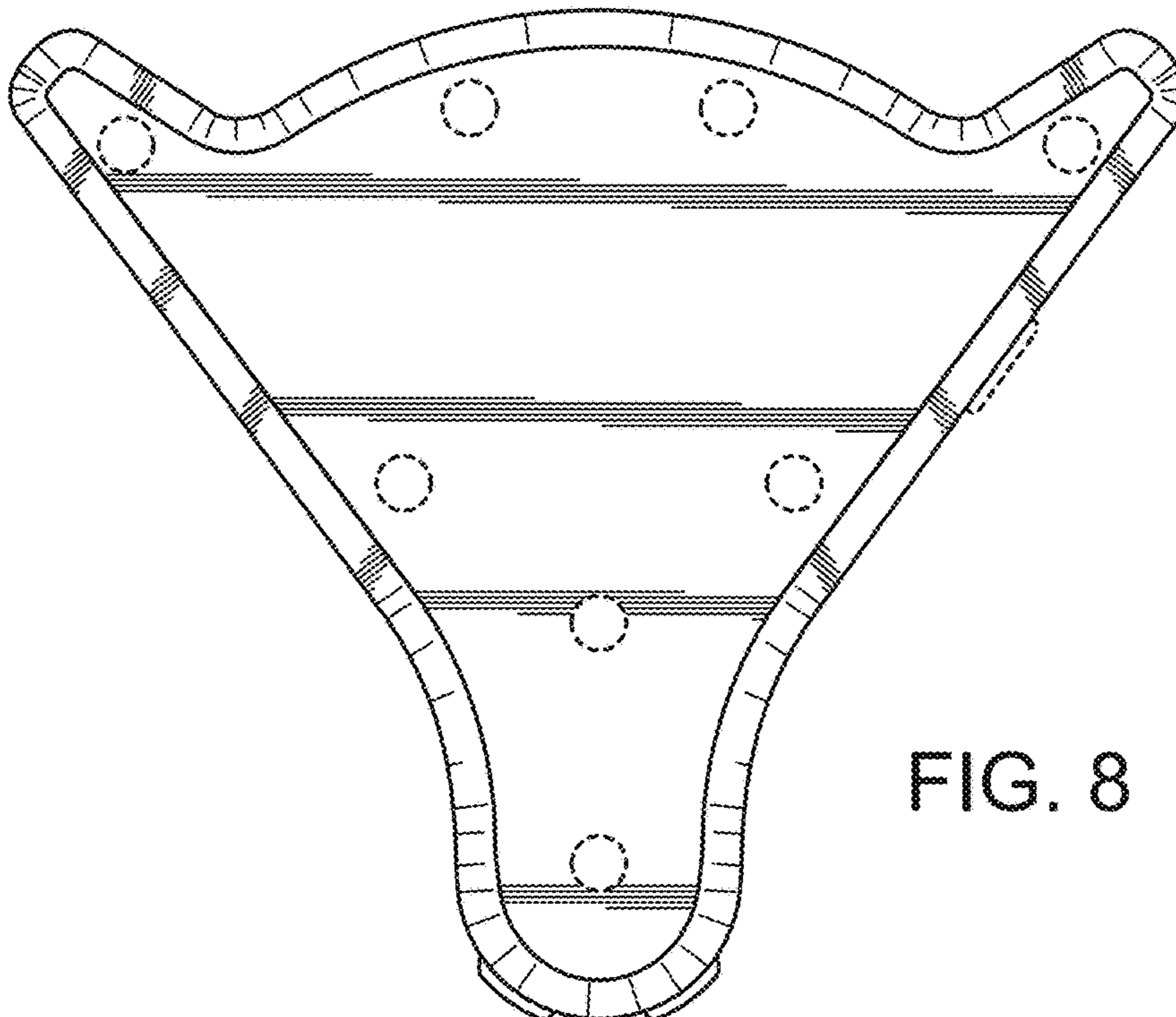


FIG. 8