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

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(54) **OPTICAL MEASUREMENT HEAD FOR MEASURING COORDINATES**

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(73) Assignee: **Mitutoyo Corporation**, Kanagawa (JP)

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

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(30) **Foreign Application Priority Data**

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(52) **U.S. Cl.**  
USPC ..... **D10/74**

(58) **Field of Classification Search**  
CPC ..... G01B 5/008; G01B 5/012; G01B 5/016; G01B 11/002; G01B 11/2545; G01B 11/2513; G01B 11/005; G01B 11/007; G01B 21/365; G01B 21/0016; G01B 21/045; G01B 21/047  
USPC ..... D10/63, 74; 250/559.15–559.49, 250/206–214 SW, 239; 33/359, 360, 503, 33/556, DIG. 3; 356/601–640, 231–236  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,757,496 A \* 5/1998 Yamazaki ..... 356/600  
7,428,061 B2 9/2008 Coppenolle et al.  
D686,927 S \* 7/2013 Matuschek et al. .... D10/74

OTHER PUBLICATIONS

English Catalog published on the Web in 2011, Nikon Metrology “XC65Dx (-LS) Digital Cross Scanners”.  
English Catalog published on the Web in 2010, Nikon Metrology Solutions “XC65D(-LS) Cross Scanner”, p. 9.  
English Catalog published on the Web in 2007, Metris “XC50(-LS) Cross Scanner”.

\* cited by examiner

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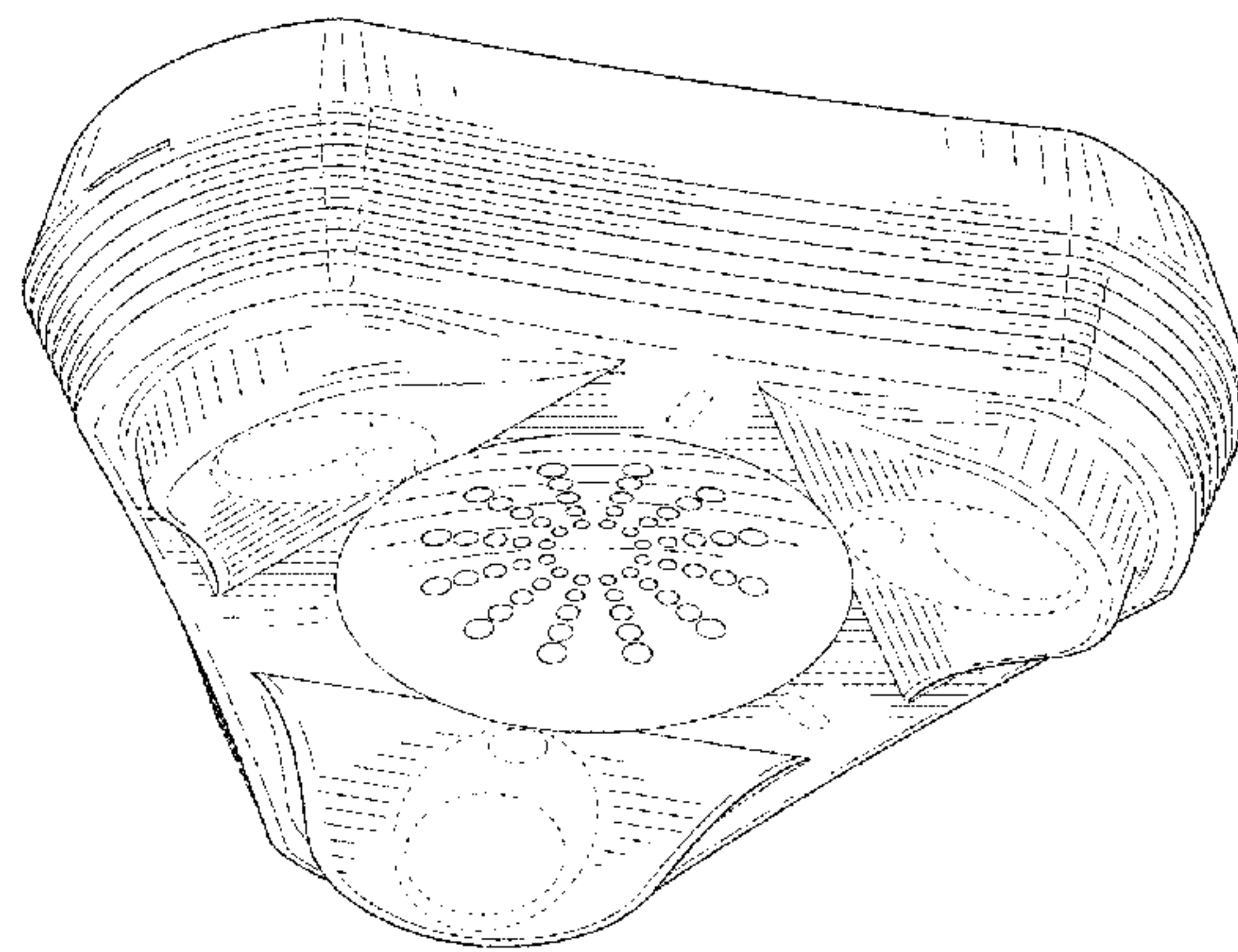
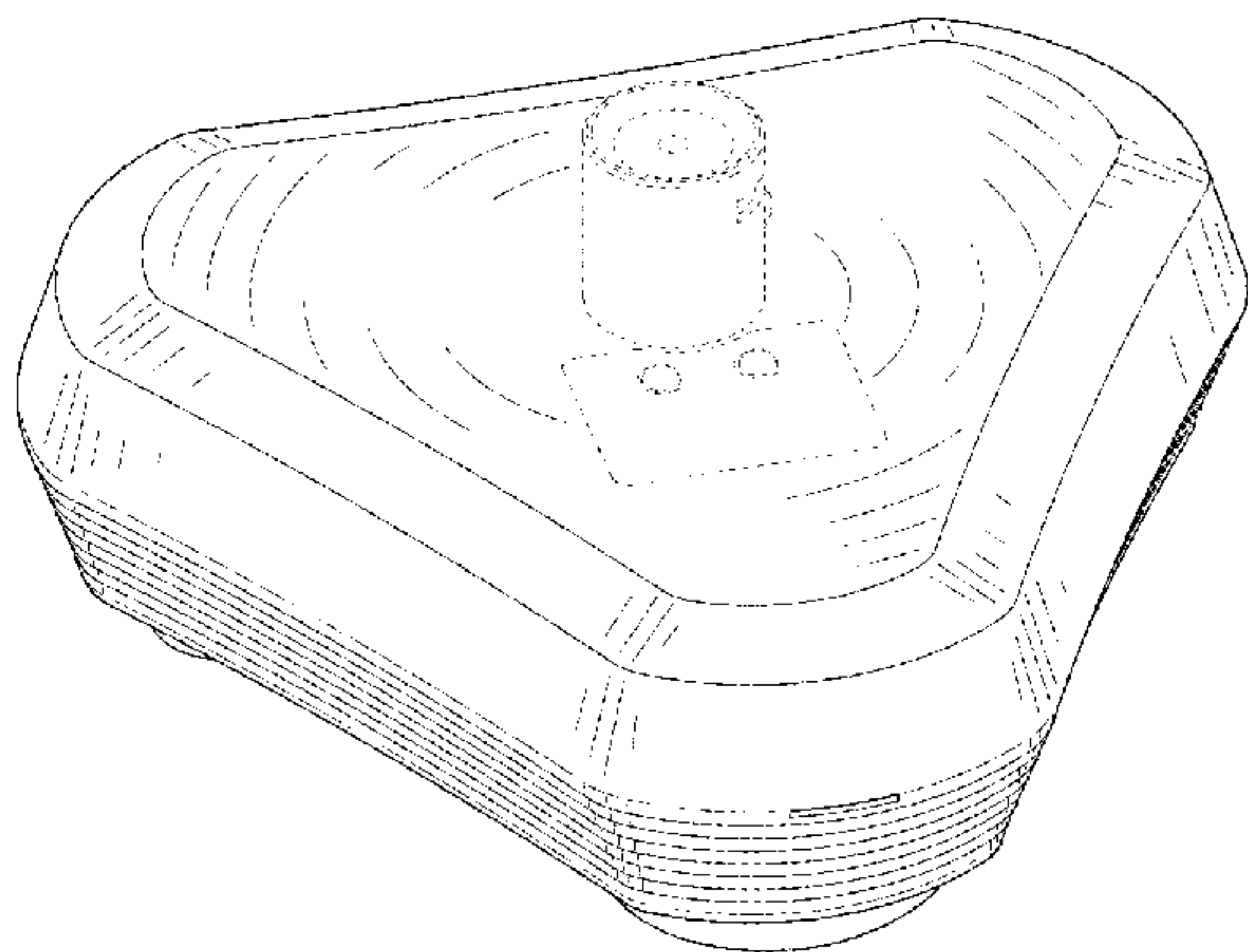
(57) **CLAIM**

The ornamental design for an optical measurement head for measuring coordinates, as shown and described.

**DESCRIPTION**

FIG. 1 is a front, top, right-side perspective view of an optical measurement head for measuring coordinates;  
FIG. 2 is a front view thereof;  
FIG. 3 is a top view thereof;  
FIG. 4 is a right-side view thereof;  
FIG. 5 is a left-side view thereof;  
FIG. 6 is a rear view thereof;  
FIG. 7 is a bottom view thereof; and,  
FIG. 8 is a bottom, front perspective view thereof.  
The broken lines depict environmental subject matter only and form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**



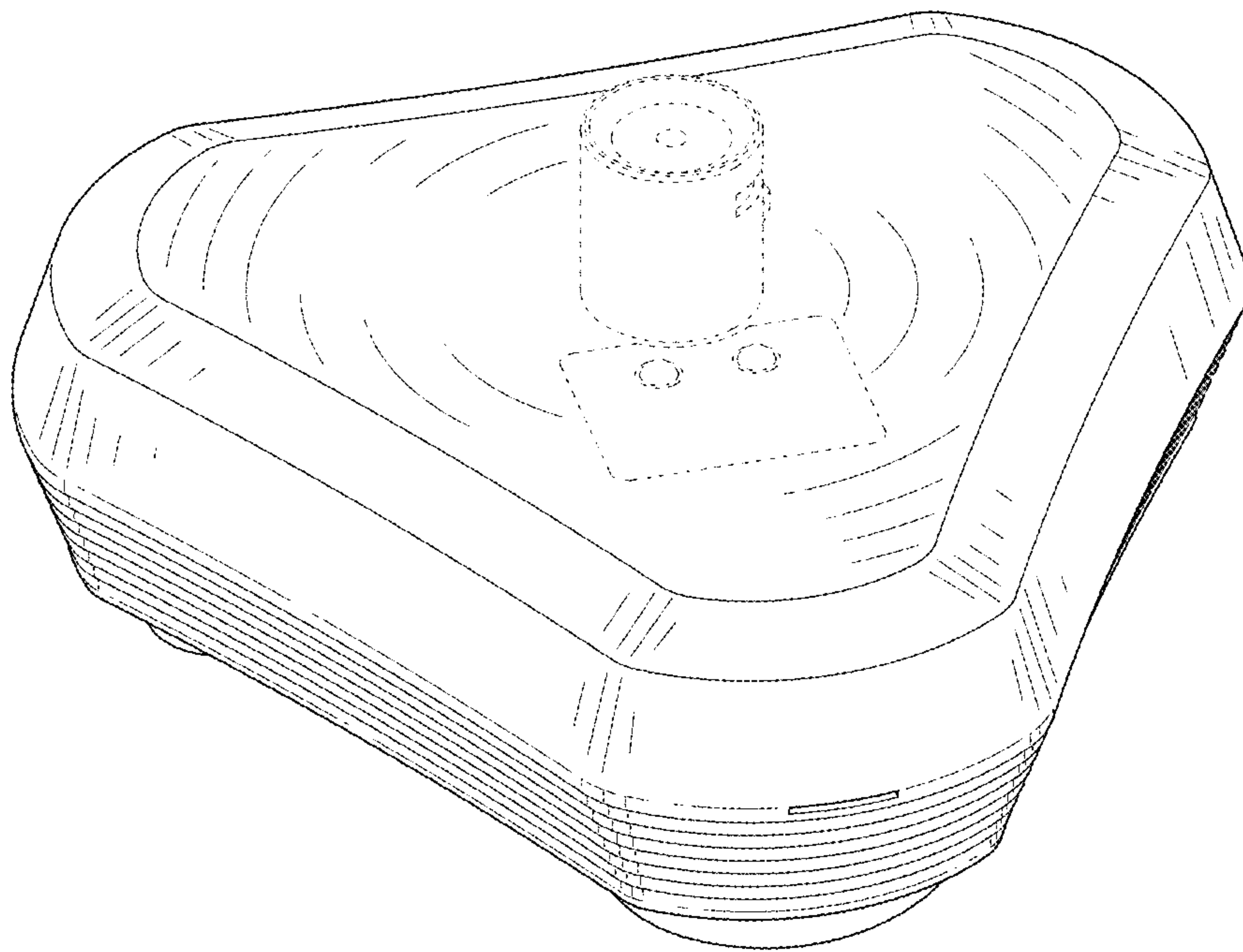


FIG. 1

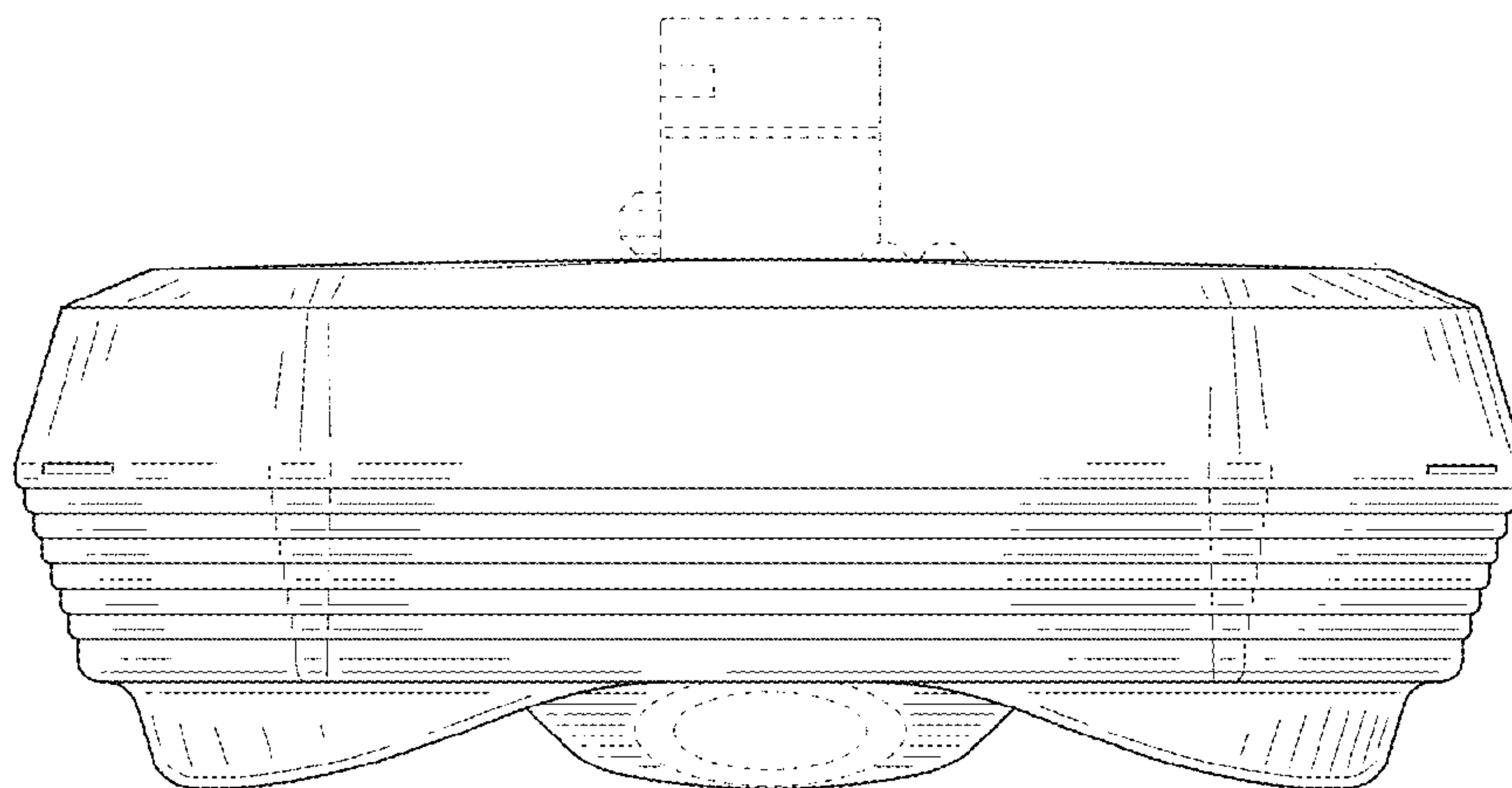


FIG. 2

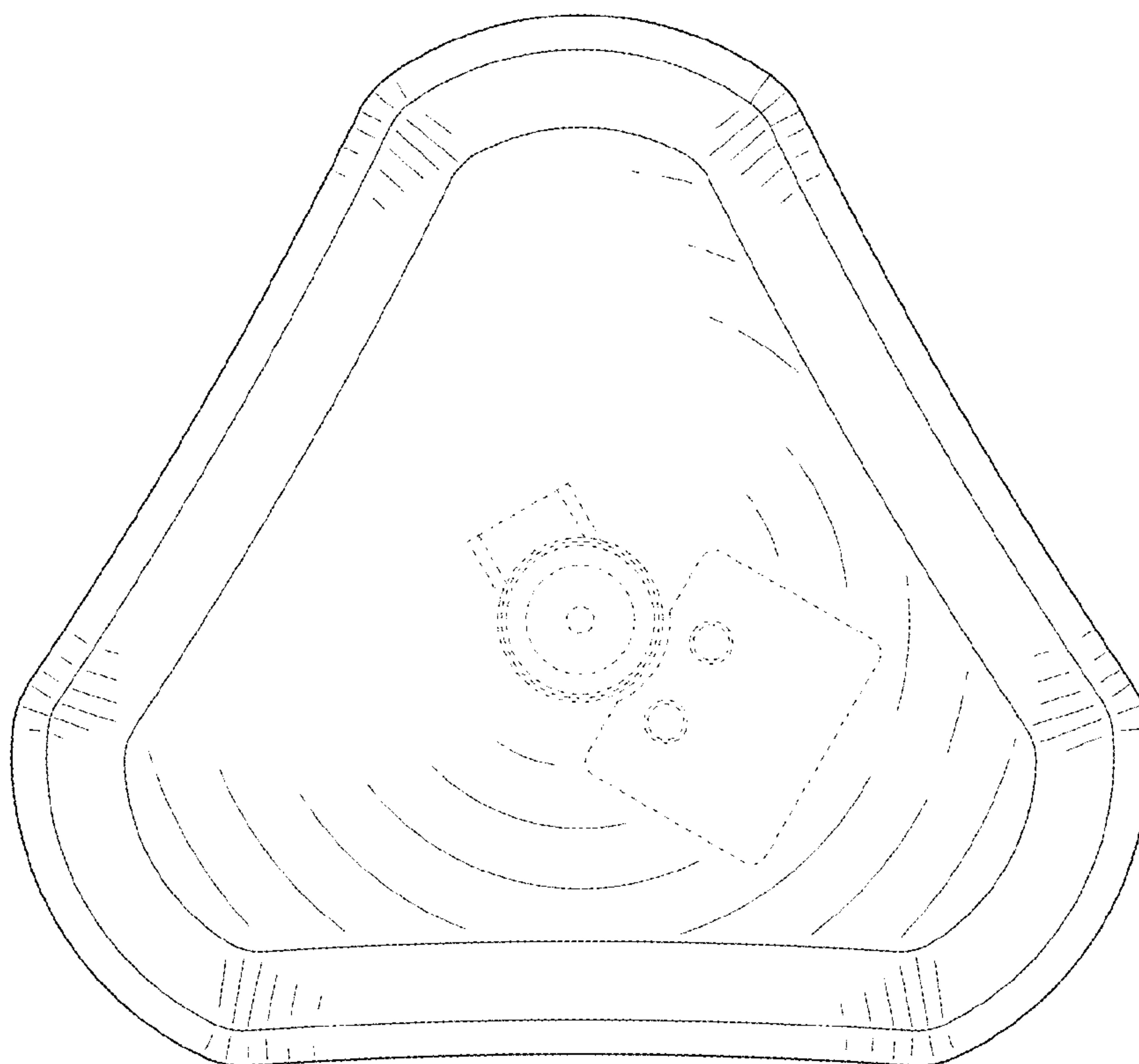


FIG. 3

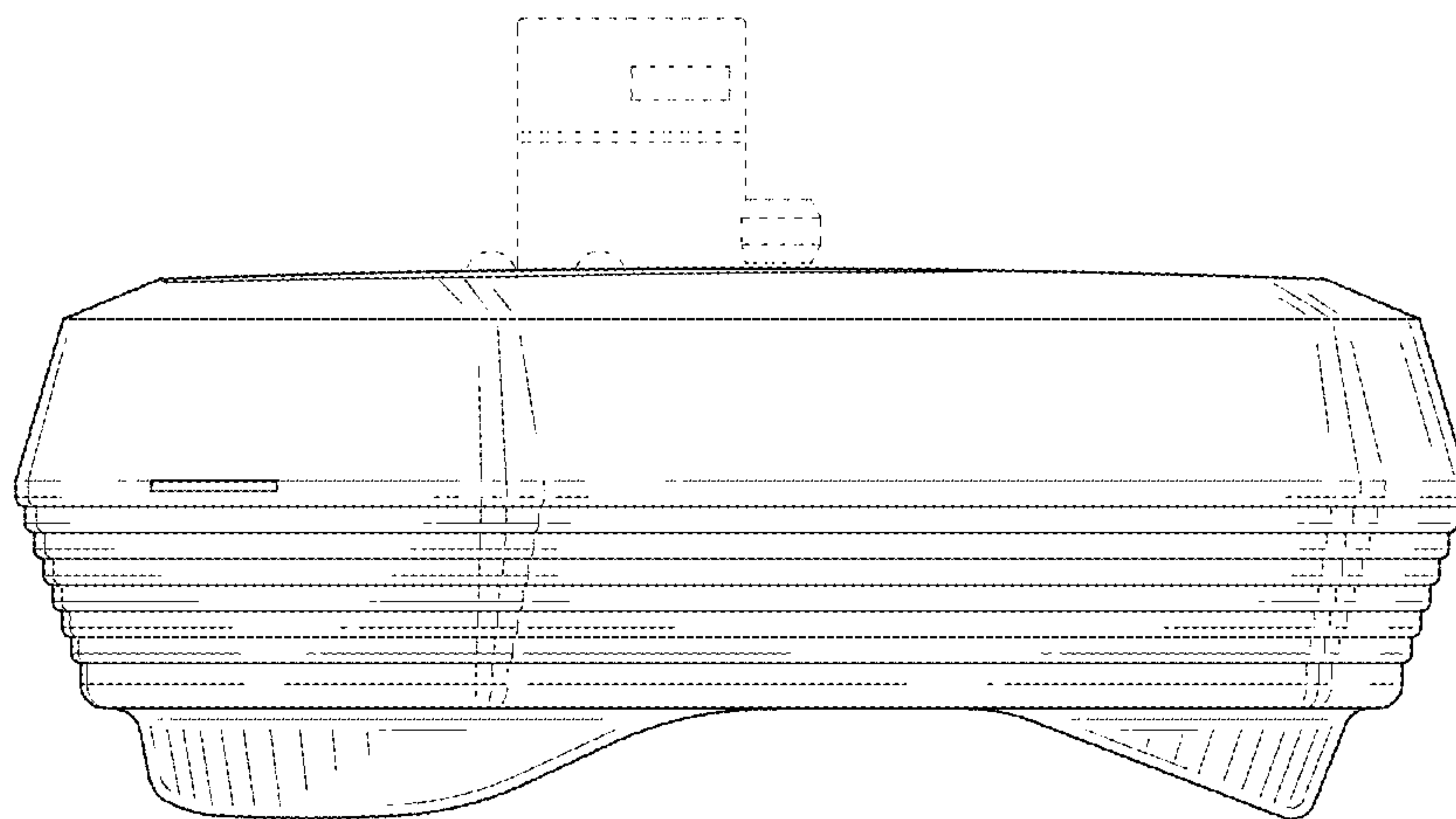


FIG. 4

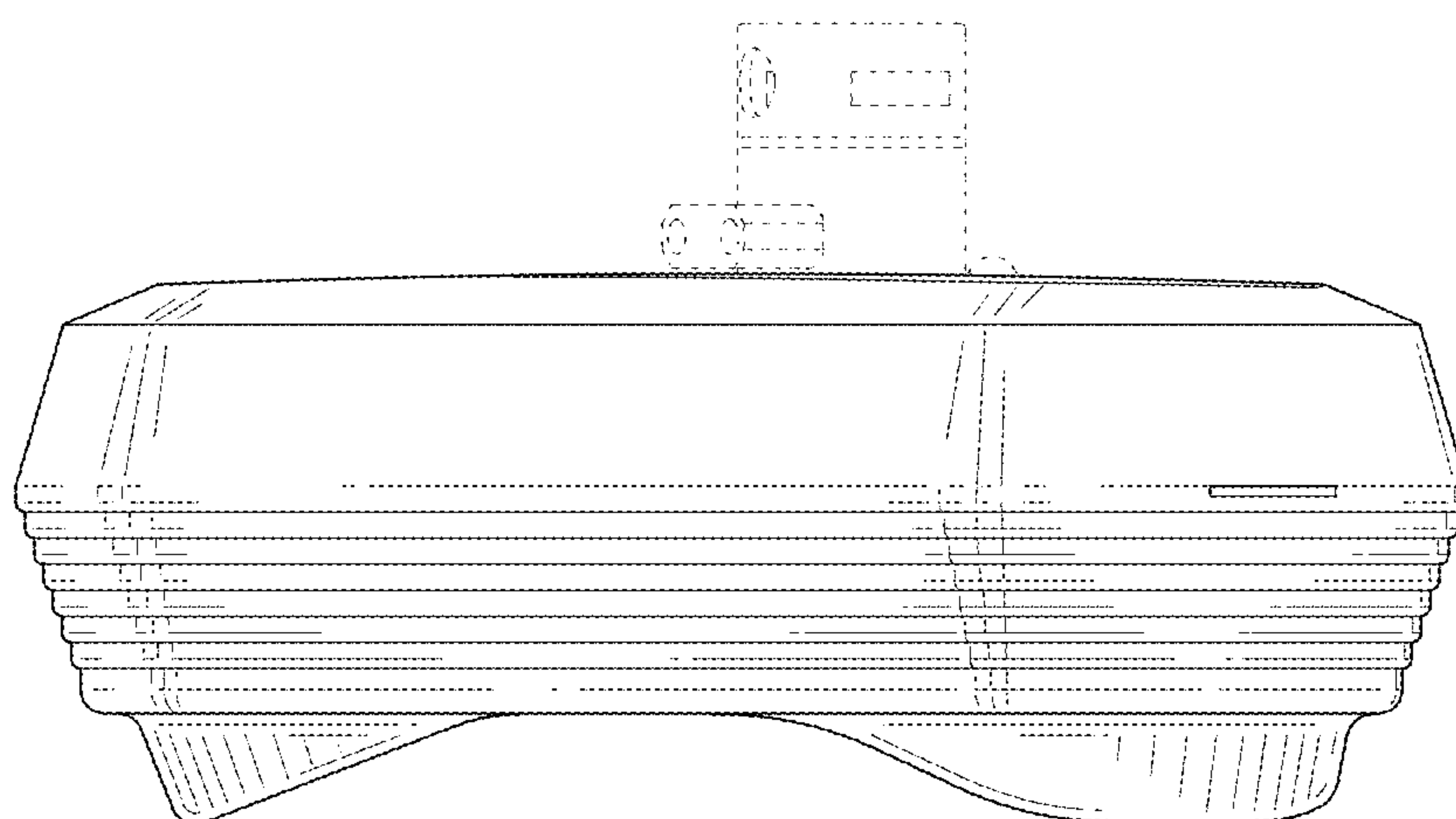


FIG. 5



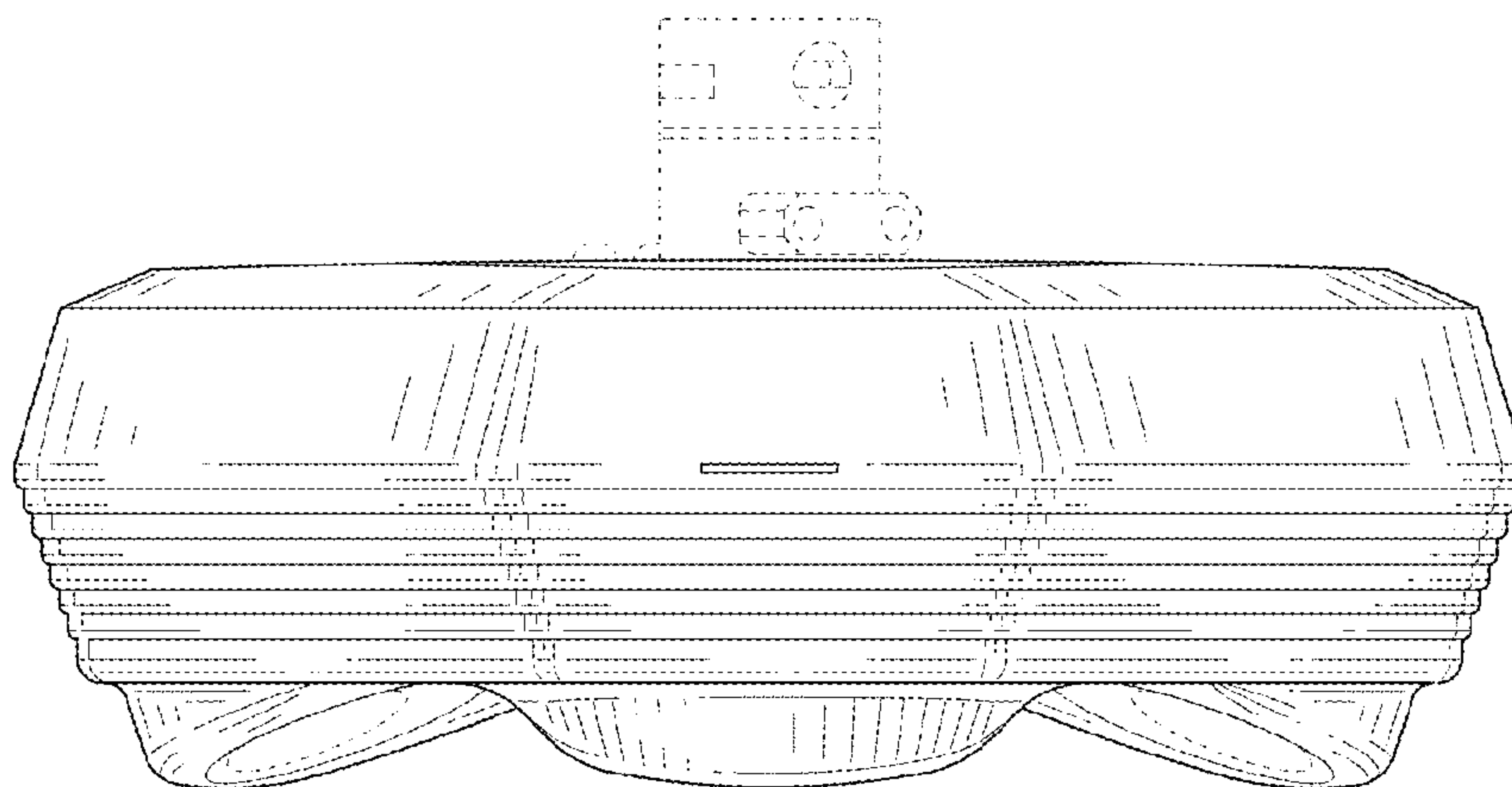


FIG. 6

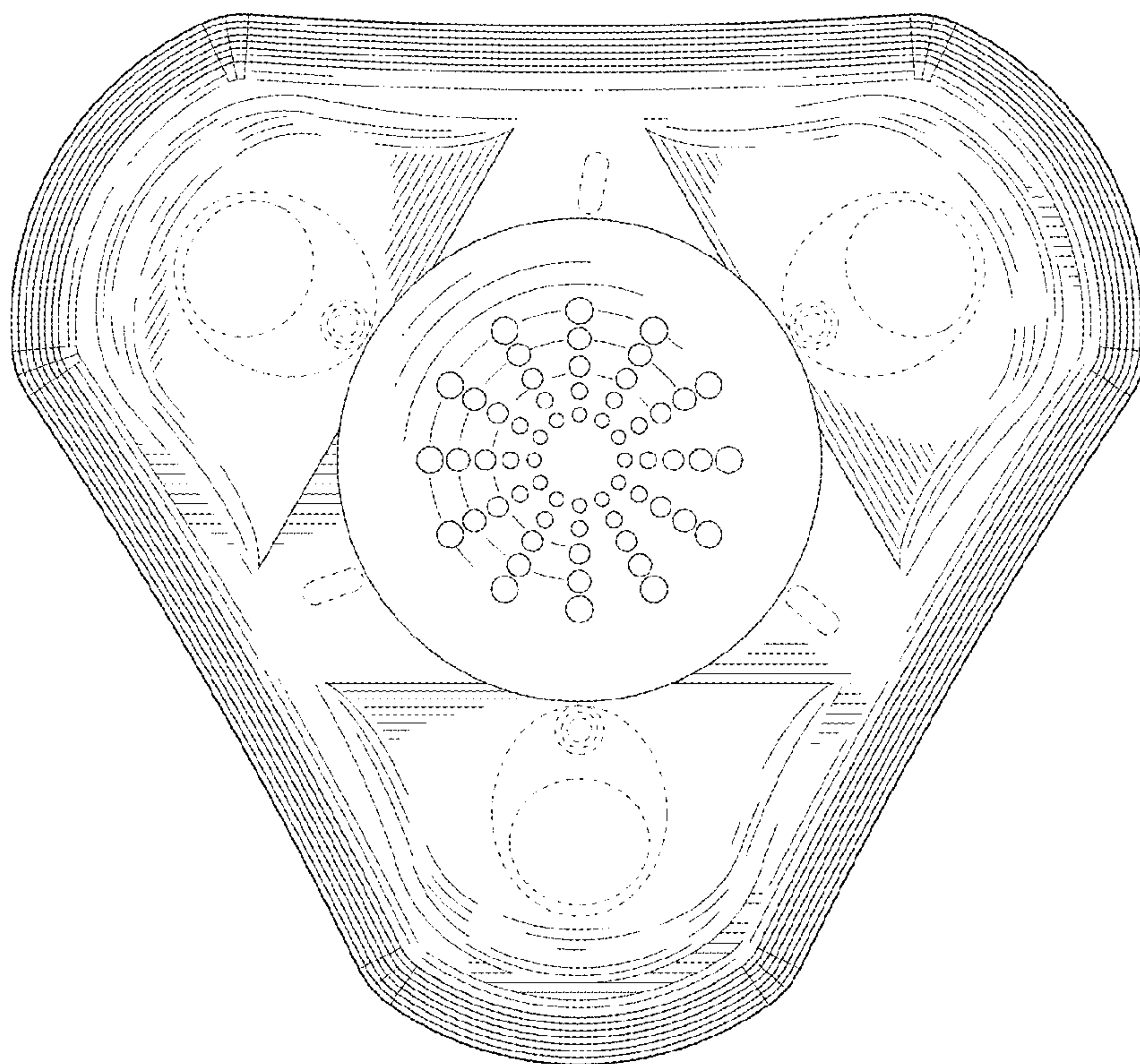


FIG. 7

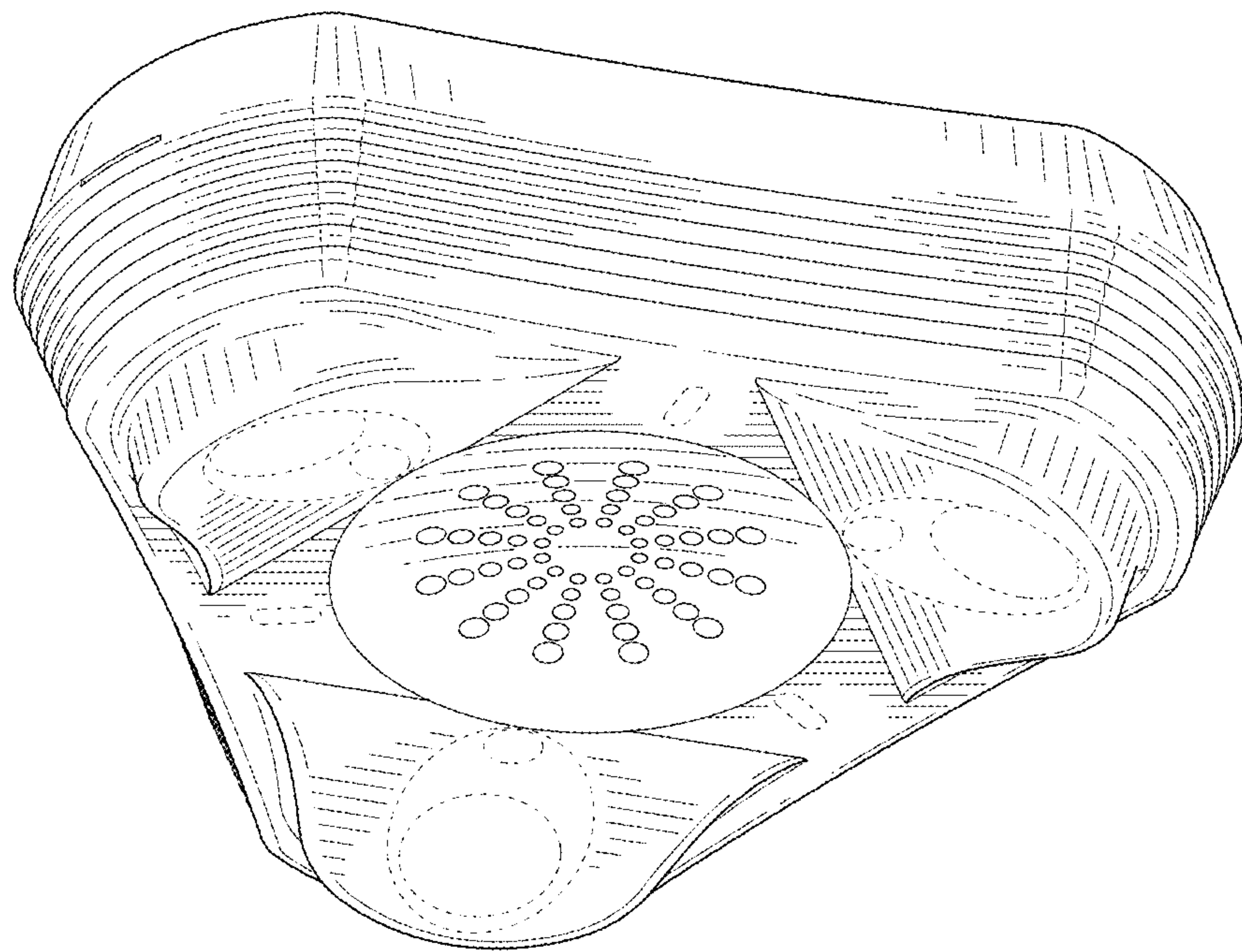


FIG. 8