



US00D820787S

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

(10) **Patent No.:** **US D820,787 S**

(45) **Date of Patent:** **\*\* Jun. 19, 2018**

(54) **CONNECTION PLUG**

(71) Applicant: **Robert Bosch GmbH**, Stuttgart (DE)

(72) Inventors: **Alexander Hoffart**, Bindlach (DE);  
**Bernal Ruesta Pablo**, Stuttgart (DE);  
**Andreas Dimitriadis**, Lorch (DE);  
**Matthias Wieser**, Wendlingen (DE)

(73) Assignee: **Robert Bosch GmbH**, Stuttgart (DE)

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

(21) Appl. No.: **29/592,717**

(22) Filed: **Feb. 1, 2017**

(30) **Foreign Application Priority Data**

Aug. 2, 2016 (EM) ..... 003328590

(51) **LOC (11) Cl.** ..... **13-03**

(52) **U.S. Cl.**  
USPC ..... **D13/133**

(58) **Field of Classification Search**

USPC ..... D13/110, 112, 116, 118, 120, 122, 123,  
D13/133, 146, 147, 149, 154, 156, 173,  
D13/174, 177, 178, 184, 199

CPC ..... G01M 17/00; G06F 19/00; G07C 5/00;  
G07C 5/08; H01R 13/66; H01R 11/00;  
H01R 11/01; H01R 13/62; H01R 13/627;  
H01R 13/629; H01R 13/633; H01R  
13/707; H01R 27/02; H01R 4/24; H01R  
12/00; H01R 13/44; H01R 13/65; H01R  
25/00; H01R 27/00; H02G 3/08

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

6,224,424 B1 \* 5/2001 Chen ..... H01B 11/1091  
439/607.42  
7,584,030 B1 \* 9/2009 Graham ..... H01R 13/665  
701/33.2

D609,639 S \* 2/2010 Kawahara ..... D13/110  
D704,669 S \* 5/2014 Casagrande ..... D13/156  
D709,836 S \* 7/2014 Casagrande ..... D13/156  
D769,824 S \* 10/2016 Wieser ..... D13/147  
D770,389 S \* 11/2016 Wieser ..... D13/147  
D770,390 S \* 11/2016 Wieser ..... D13/147  
D770,391 S \* 11/2016 Wieser ..... D13/147  
D770,392 S \* 11/2016 Wieser ..... D13/147  
D770,982 S \* 11/2016 Wieser ..... D13/147  
D771,573 S \* 11/2016 Lowchareonkul ..... D13/156  
D776,618 S \* 1/2017 Wieser ..... D13/147

(Continued)

*Primary Examiner* — Thomas Johannes

*Assistant Examiner* — Shawn T Gingrich

(74) *Attorney, Agent, or Firm* — Maginot, Moore & Beck  
LLP

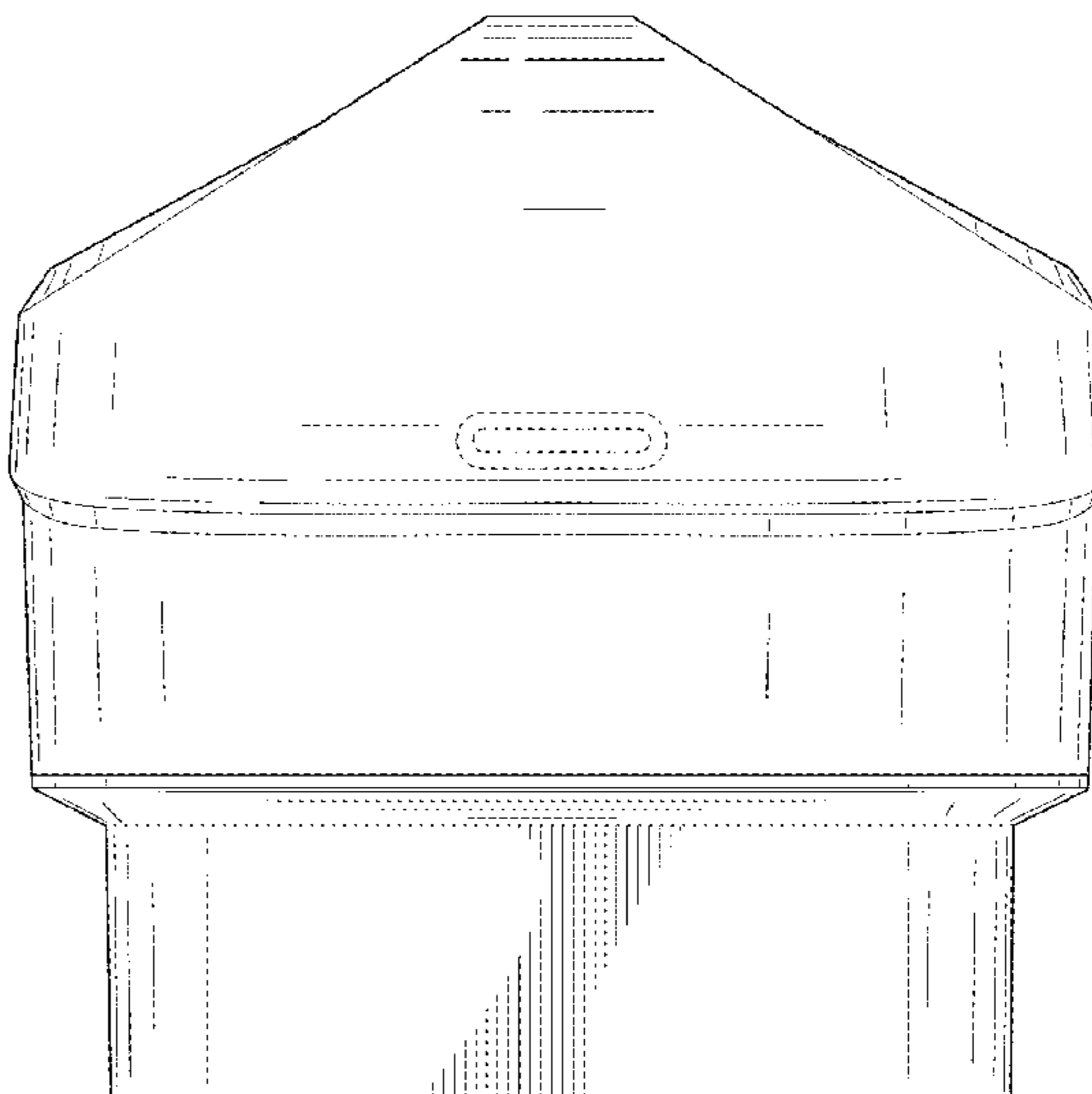
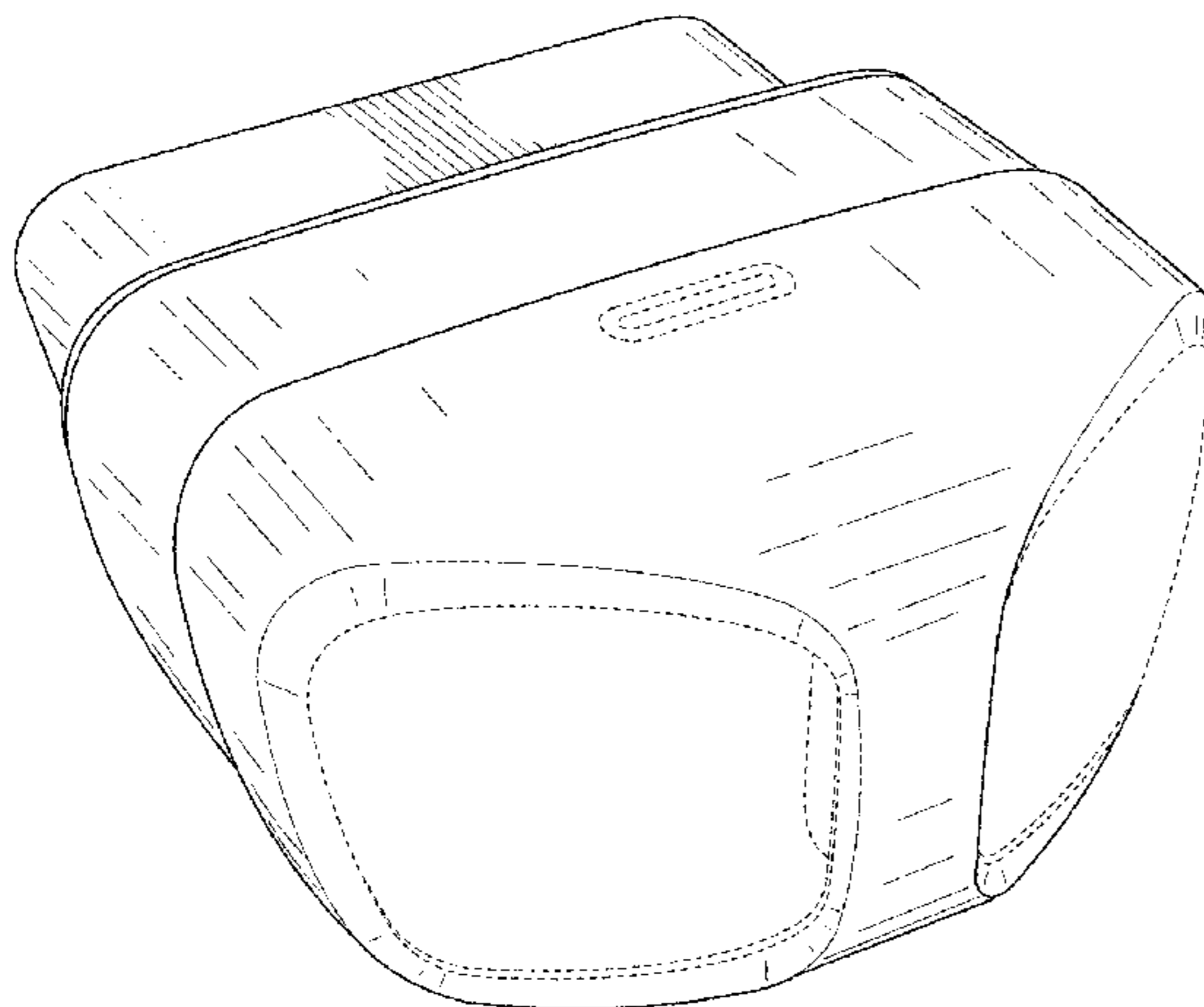
(57) **CLAIM**

The ornamental design for a connection plug, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a connection plug showing our new design;  
FIG. 2 is a left side elevational view of the connection plug of FIG. 1;  
FIG. 3 is a right side elevational view of the connection plug of FIG. 1;  
FIG. 4 is a top elevational view of the connection plug of FIG. 1;  
FIG. 5 is a bottom elevational view of the connection plug of FIG. 1;  
FIG. 6 is a front view of the connection plug of FIG. 1; and,  
FIG. 7 is a rear view of the connection plug of FIG. 1.  
The broken lines shown in the drawings illustrate portions of the connection plug that form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



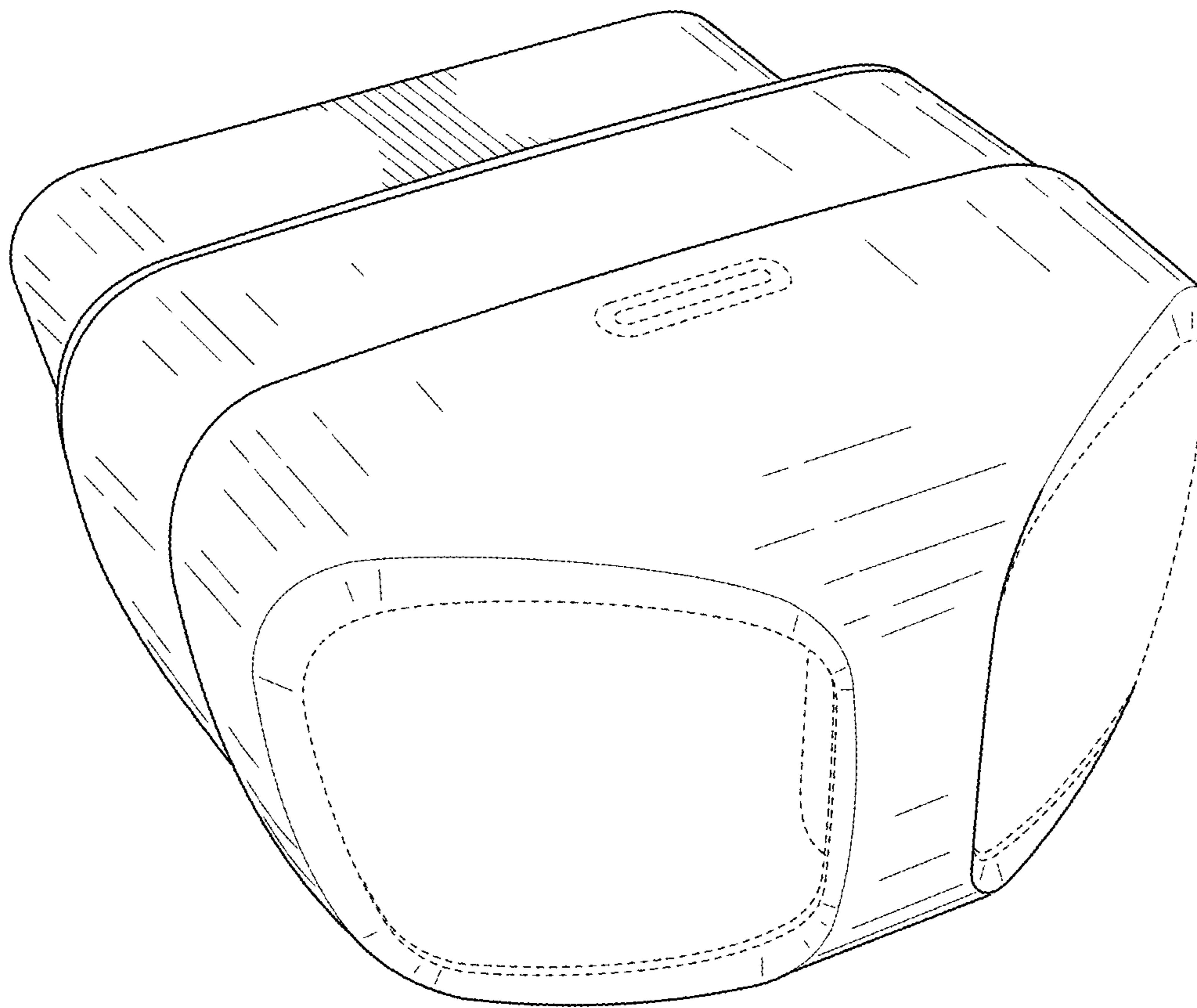
(56)

**References Cited**

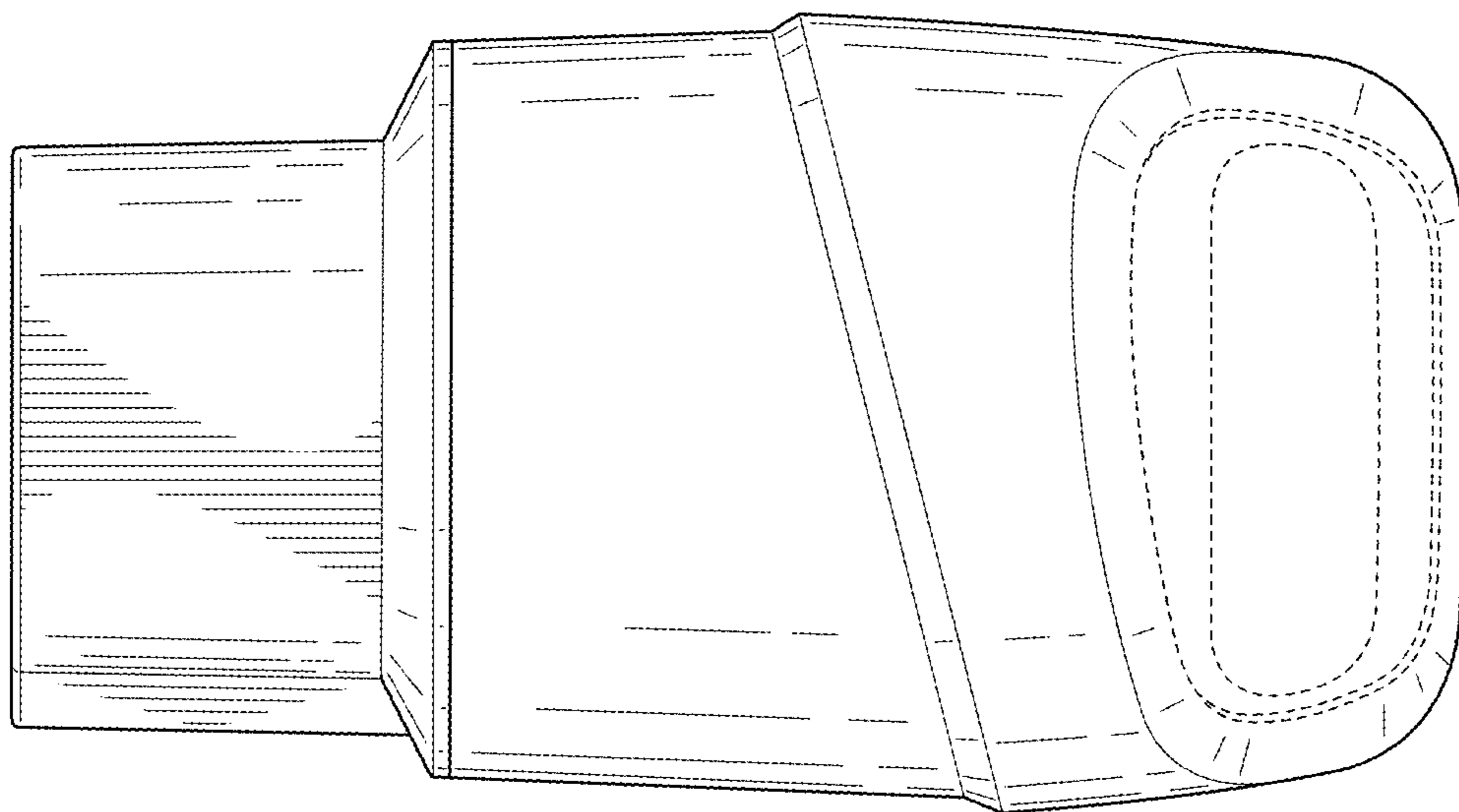
U.S. PATENT DOCUMENTS

2015/0081163 A1\* 3/2015 Molenkamp ..... G07C 5/00  
701/33.2  
2016/0226189 A1\* 8/2016 Simonazzi ..... H01R 13/6272  
2016/0322730 A1\* 11/2016 Sasaki ..... H01R 12/89

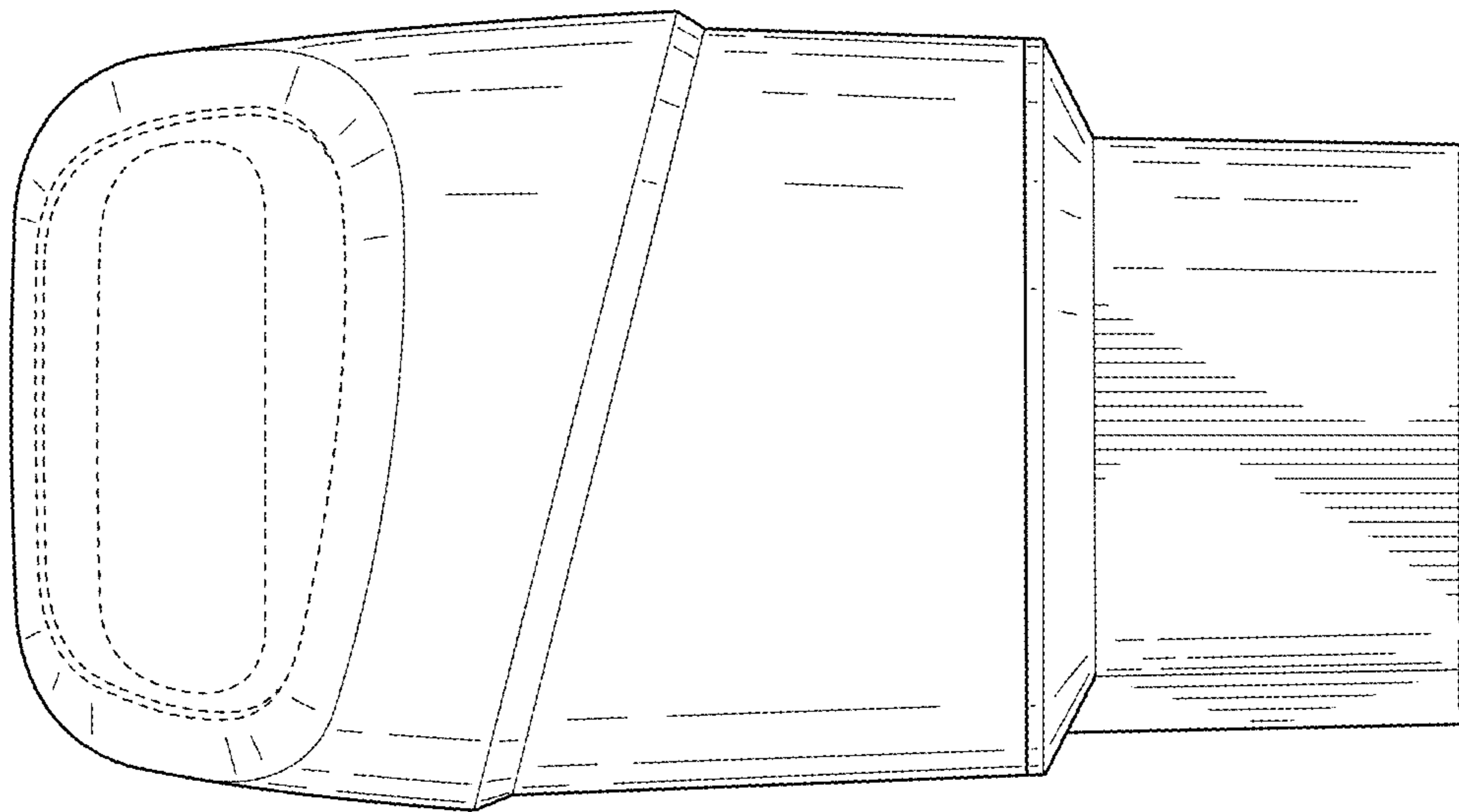
\* cited by examiner



**FIG. 1**



**FIG. 2**



**FIG. 3**

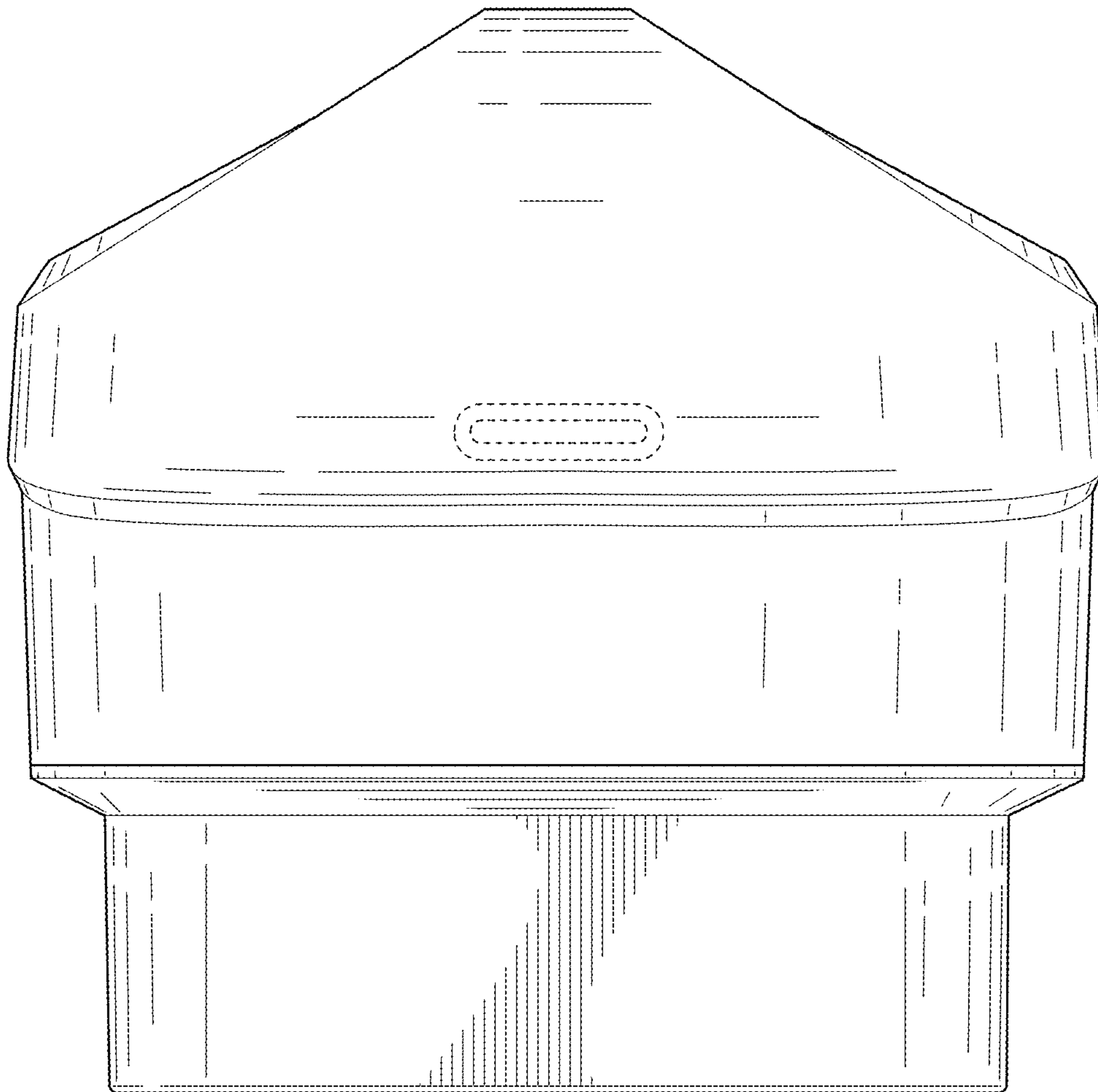
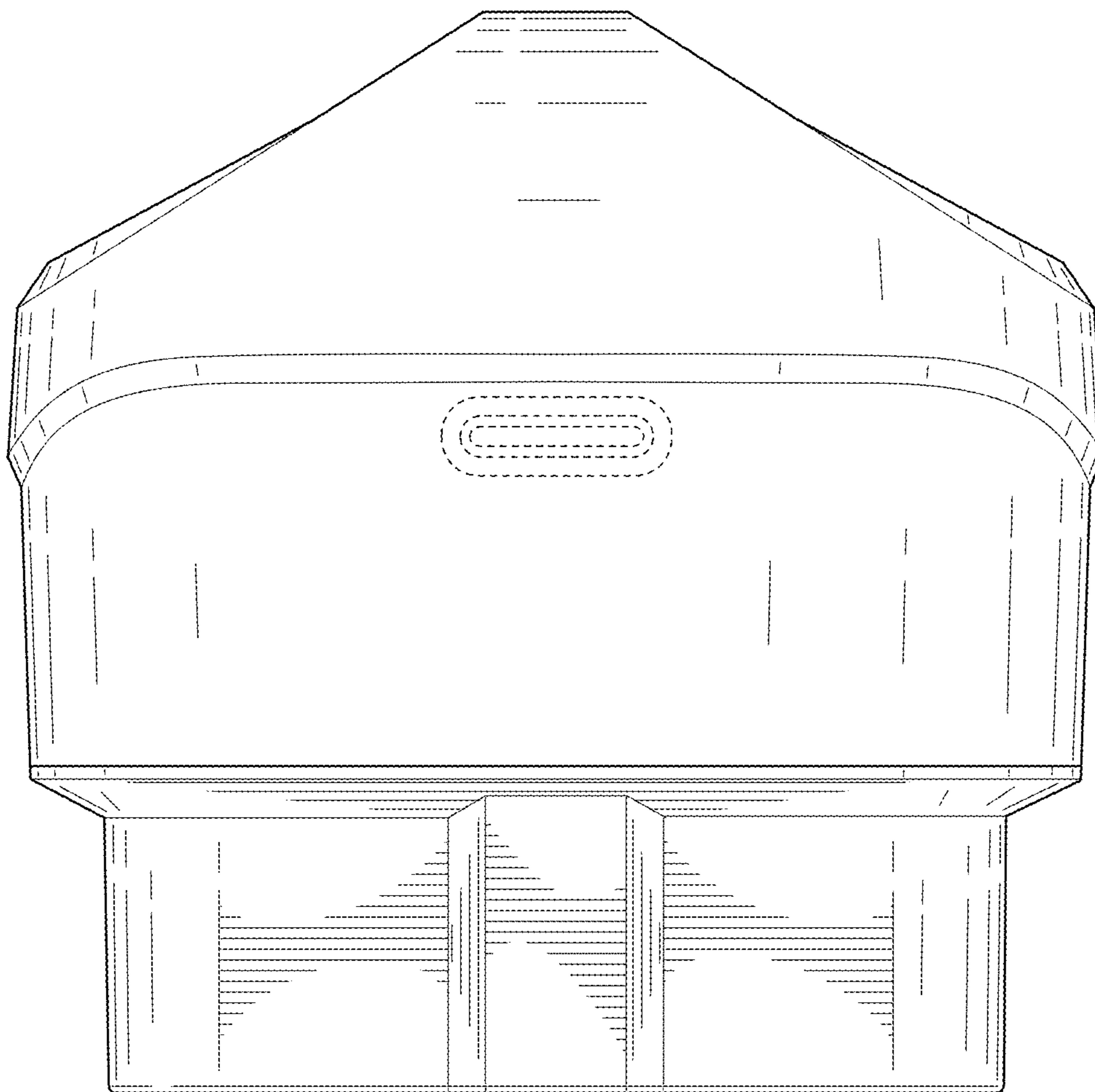
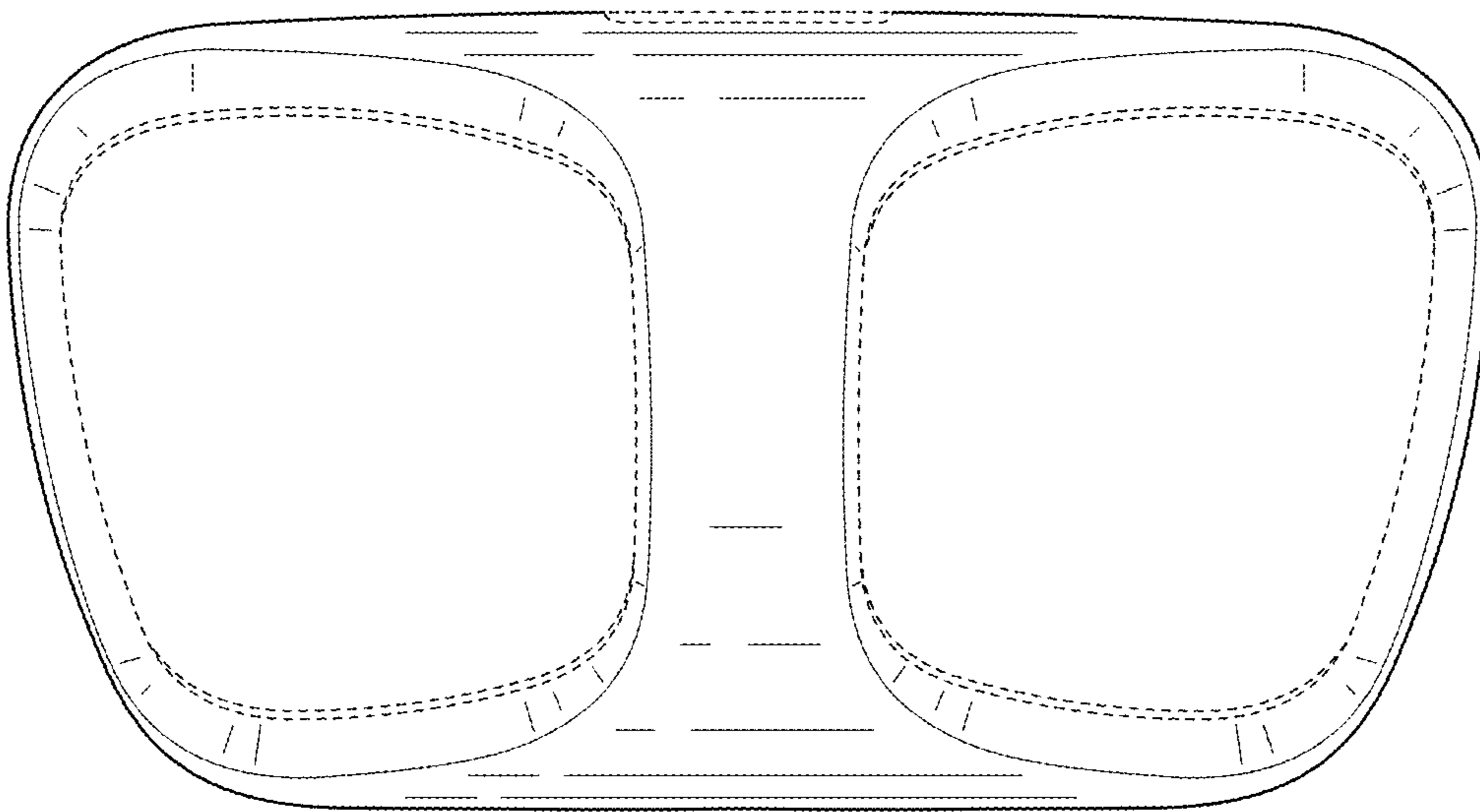


FIG. 4



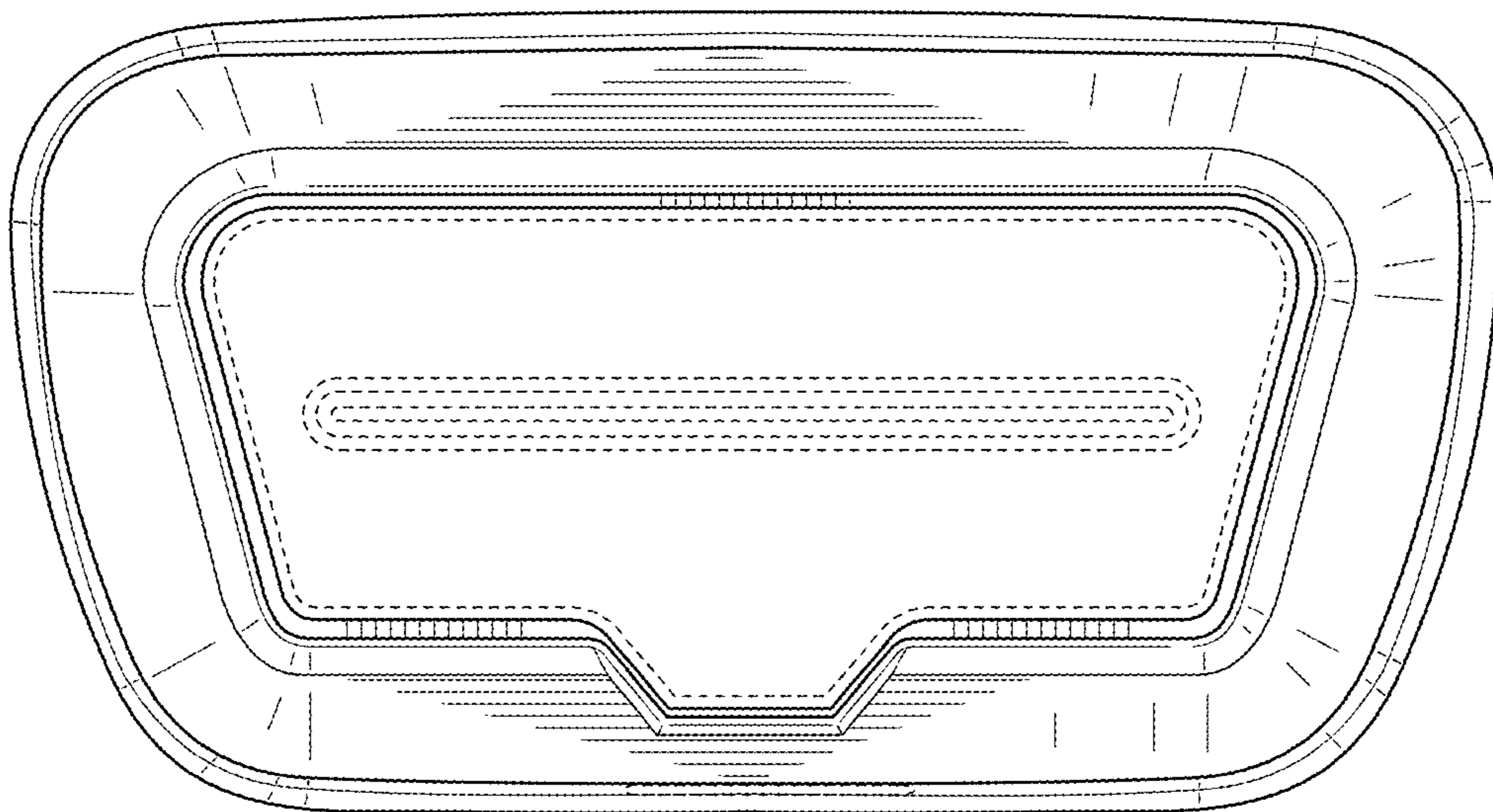
**FIG. 5**





**FIG. 6**





**FIG. 7**