



US00D903604S

(12) **United States Design Patent** (10) **Patent No.:** **US D903,604 S**
Su et al. (45) **Date of Patent:** **** Dec. 1, 2020**

(54) **ELECTRICAL CONNECTOR**

(71) Applicant: **NEXTRONICS ENGINEERING CORP.**, New Taipei (TW)

(72) Inventors: **Hou-An Su**, Keelung (TW); **Yong Zhang**, Guangdong (CN)

(73) Assignee: **NEXTRONICS ENGINEERING CORP.**, New Taipei (TW)

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

(21) Appl. No.: **29/688,141**

(22) Filed: **Apr. 18, 2019**

(30) **Foreign Application Priority Data**

Feb. 20, 2019 (TW) 108300939

(51) **LOC (12) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/151**

(58) **Field of Classification Search**
USPC D13/101, 118, 119, 120, 121, 133, 146,
D13/147, 149, 151, 153, 154, 156;
D23/259, 262
CPC H01R 12/70; H01R 13/62; H01R 24/00;
H01R 13/052
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,560,908 A * 2/1971 Dell H01R 13/743
439/353
D360,617 S * 7/1995 Grande D13/133
D404,362 S * 1/1999 Auray D13/152
D580,371 S * 11/2008 Farahani D13/146
D596,578 S * 7/2009 Kiely D13/149
D639,743 S * 6/2011 Smith D13/146

D651,696 S * 1/2012 Giordano D23/262
D659,100 S * 5/2012 Deiss D13/151
9,692,174 B1 * 6/2017 Yu H01R 13/6277
D838,247 S * 1/2019 Corona D13/151
D847,309 S * 4/2019 Sugatani D23/259
10,630,024 B1 * 4/2020 Su H01R 13/625
2017/0310044 A1 * 10/2017 Smajda H01R 13/623

OTHER PUBLICATIONS

“Circular Connector”. Found online Aug. 27, 2020 at conrad.com. Reference dated Mar. 23, 2017. Retrieved from <https://www.conrad.com/p/odu-km1-311-002-934-007-accessory-for-medi-snap-circular-connector-747746>. (Year: 2017).*

(Continued)

Primary Examiner — Kendra Leslie Hamilton

Assistant Examiner — Amanda Christensen

(74) *Attorney, Agent, or Firm* — Li & Cai Intellectual Property (USA) Office

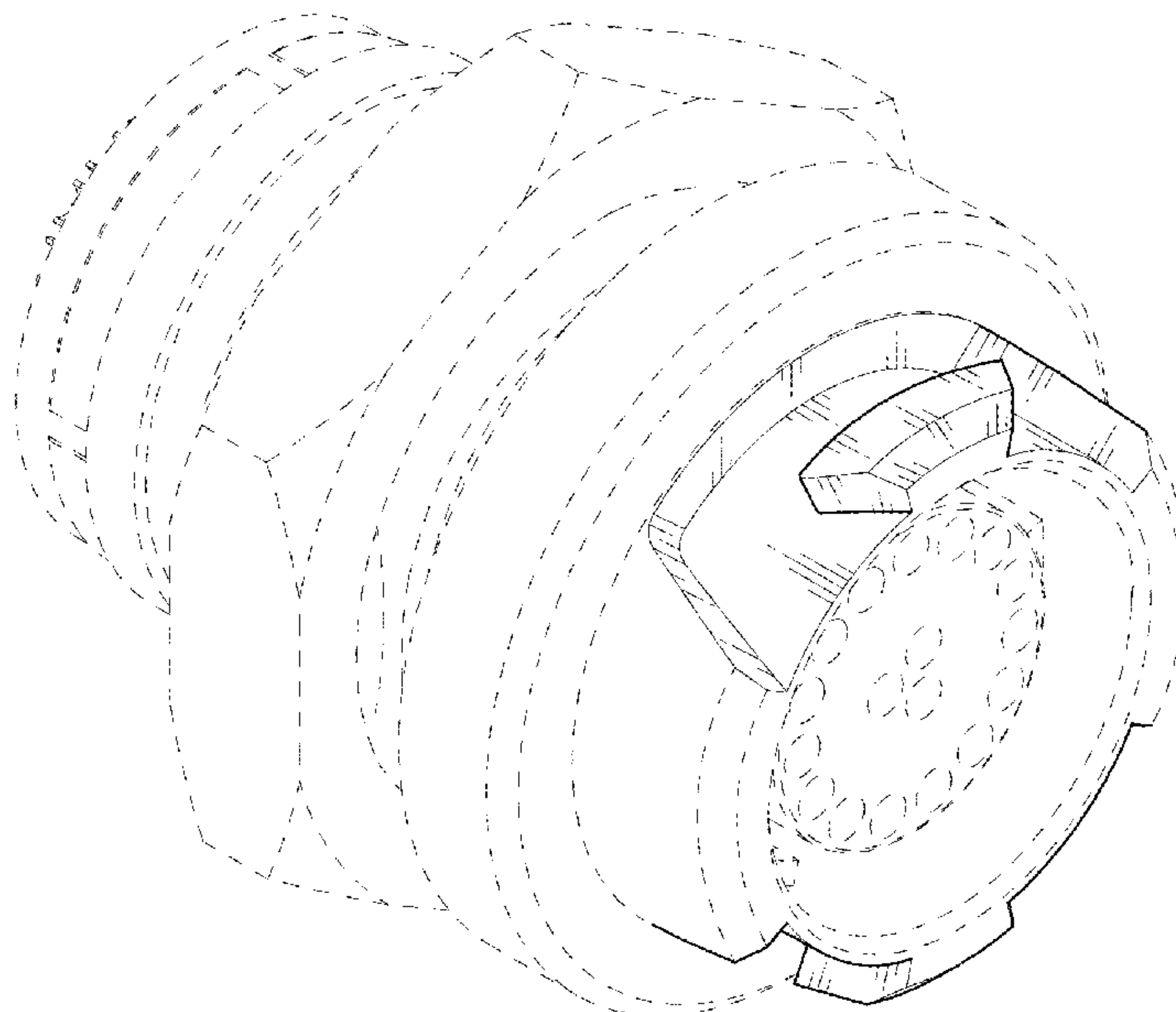
(57) **CLAIM**

The ornamental design for an electrical connector, as shown and described.

DESCRIPTION

FIG. 1 is a front, right and top perspective view of an electrical connector showing our new design;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a left side elevational view thereof;
FIG. 5 is a right side elevational view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof; and,
FIG. 8 is a rear, right and bottom perspective view thereof. The broken lines depict portions of the electrical connector in which the design is embodied that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

“Waterproof Electrical Connectors”. Found online Sep. 16, 2020 at jniconconnector.com. Reference dated Aug. 12, 2018. Retrieved from https://tineye.com/search/af15cbd36643f51d2365365c8fc3eb060d39fa48?sort=crawl_date&order=asc&page=1. (Year: 2018).*

“Circular Thermoplastic Connector”. Found online Jul. 13, 2020 at amphenol-sine.com. Reference dated Oct. 2018. Retrieved from <http://www.amphenol-sine.com/pdf/catalog/AHD-Series-Flyer-2016.pdf>. (Year: 2018).*

* cited by examiner

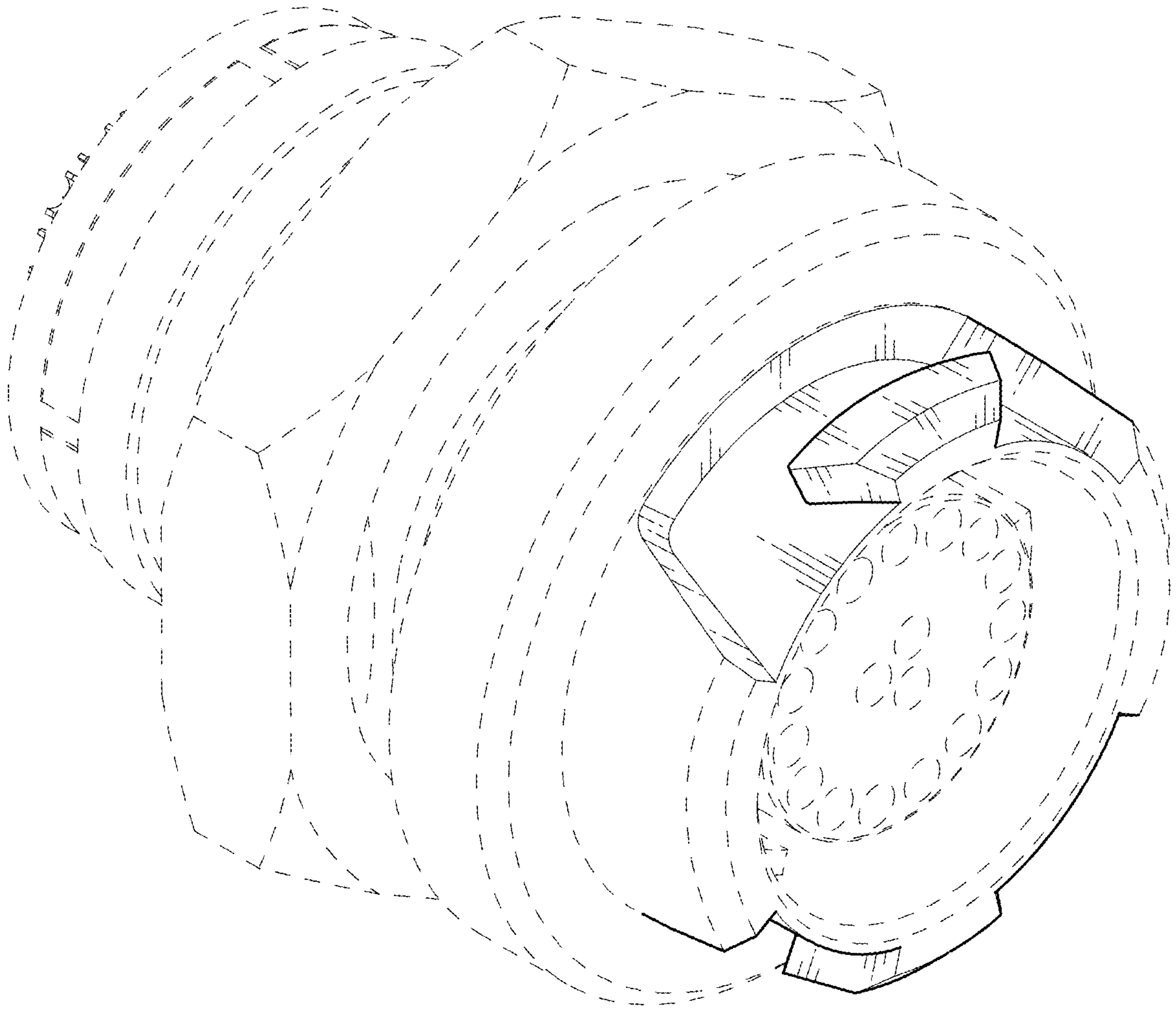


FIG. 1

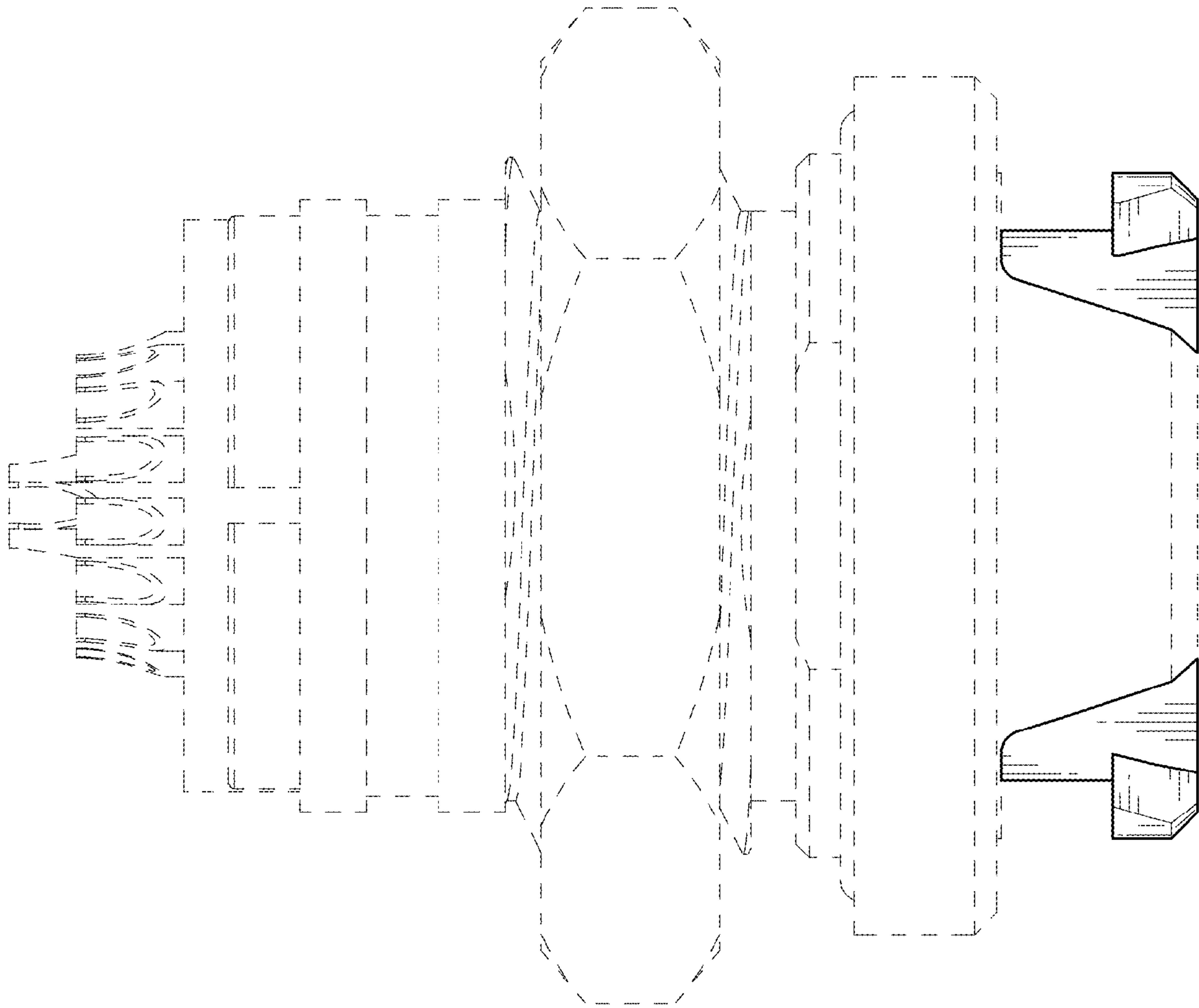


FIG. 2

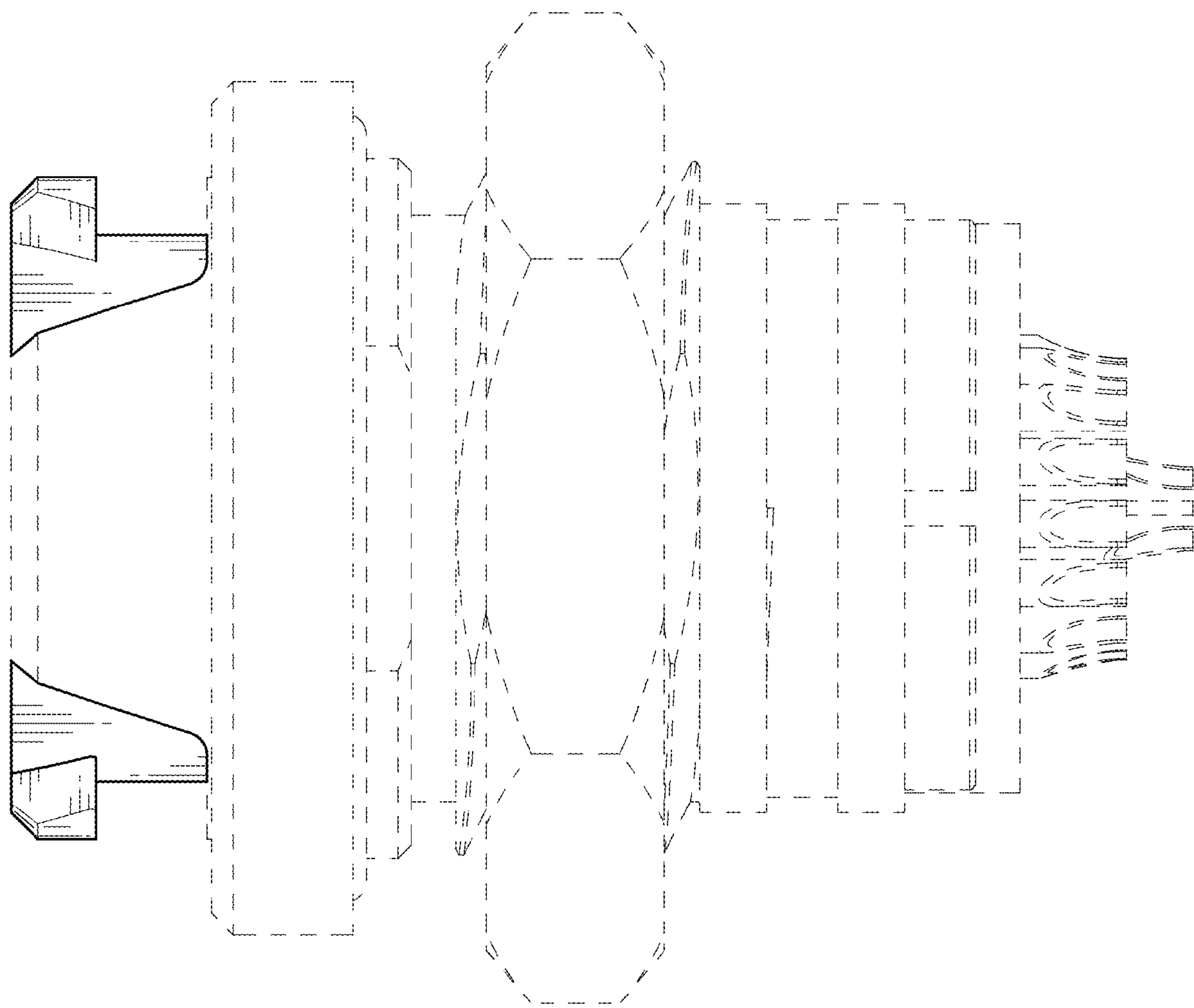


FIG. 3

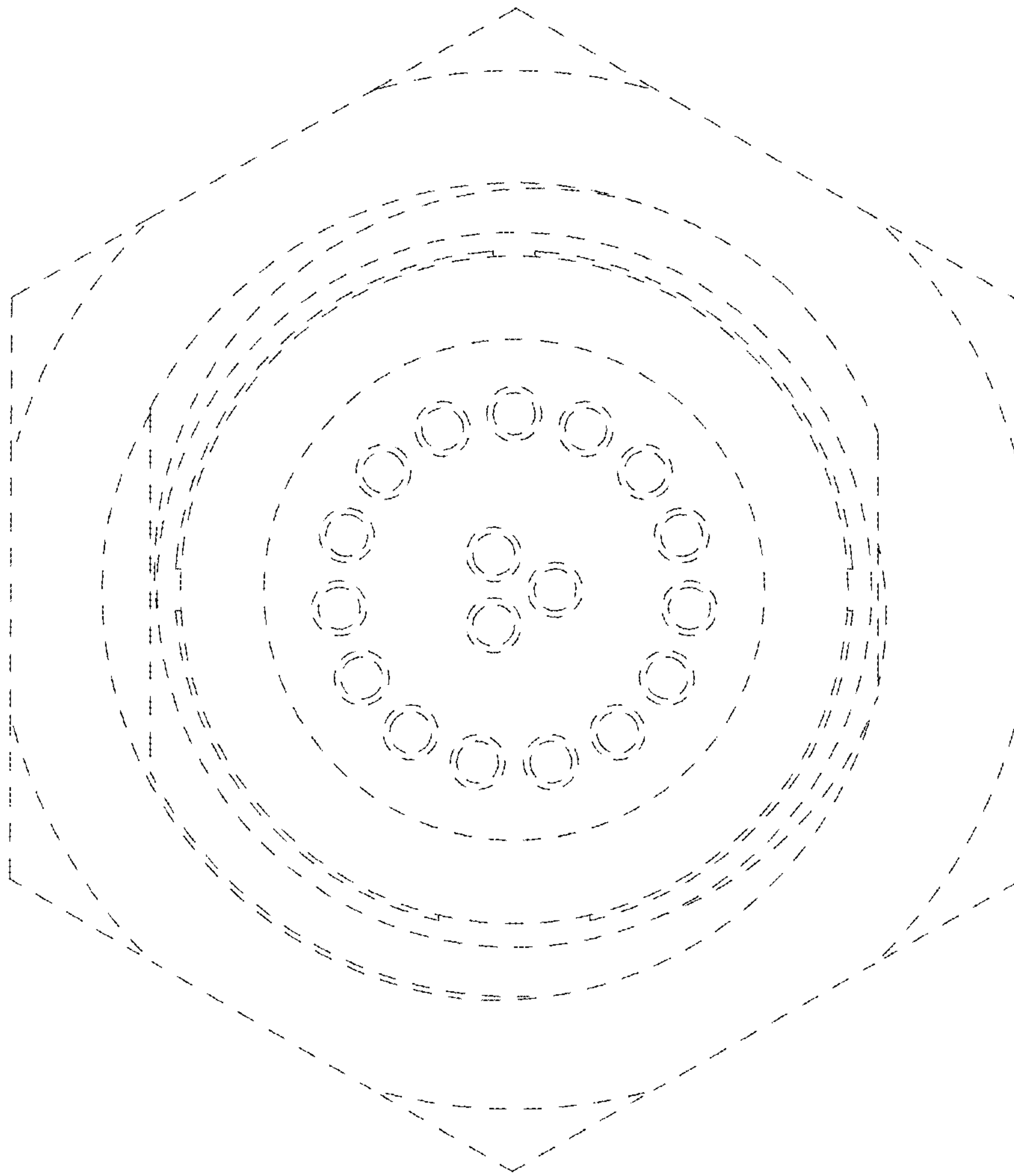


FIG. 4

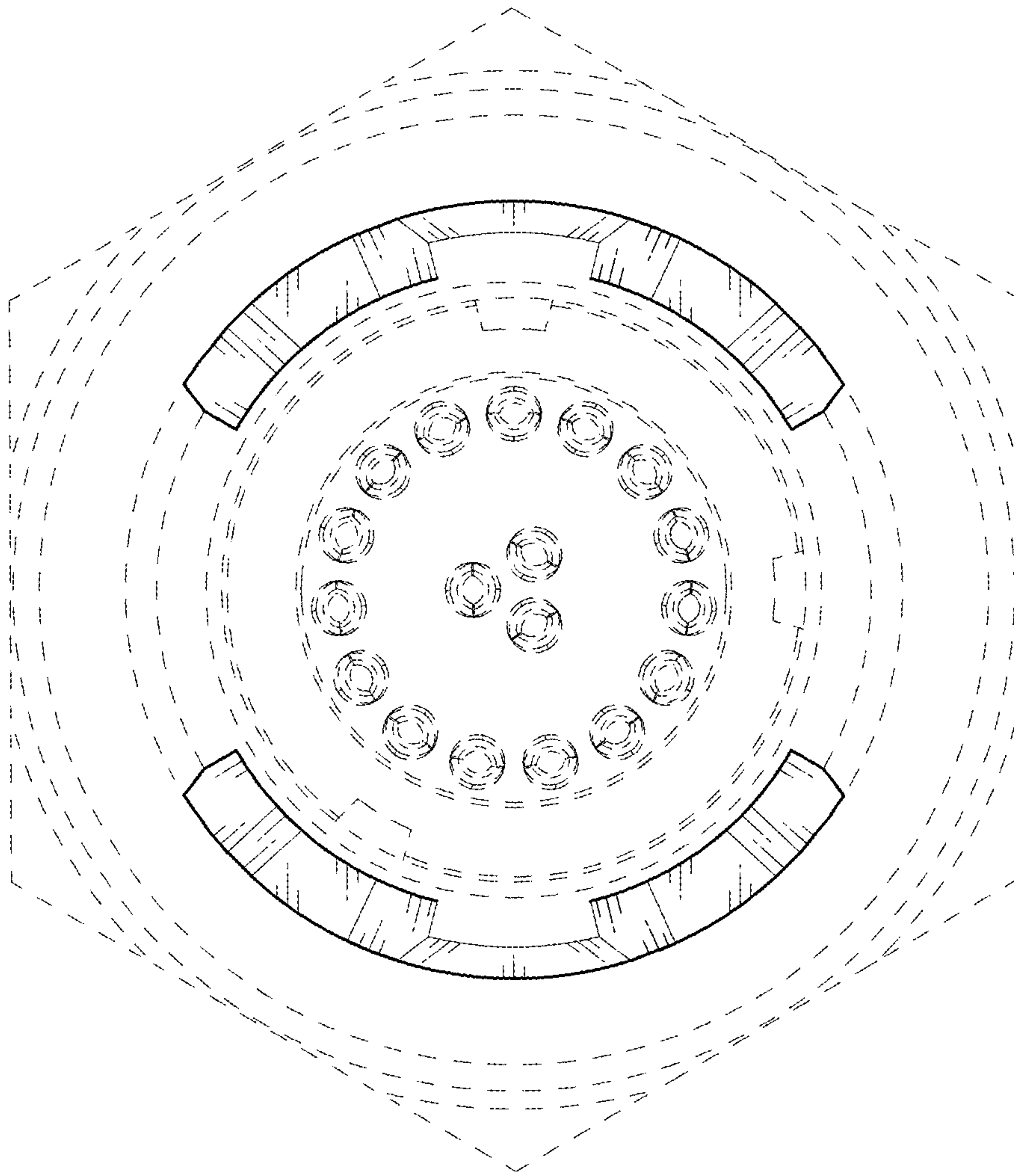


FIG. 5

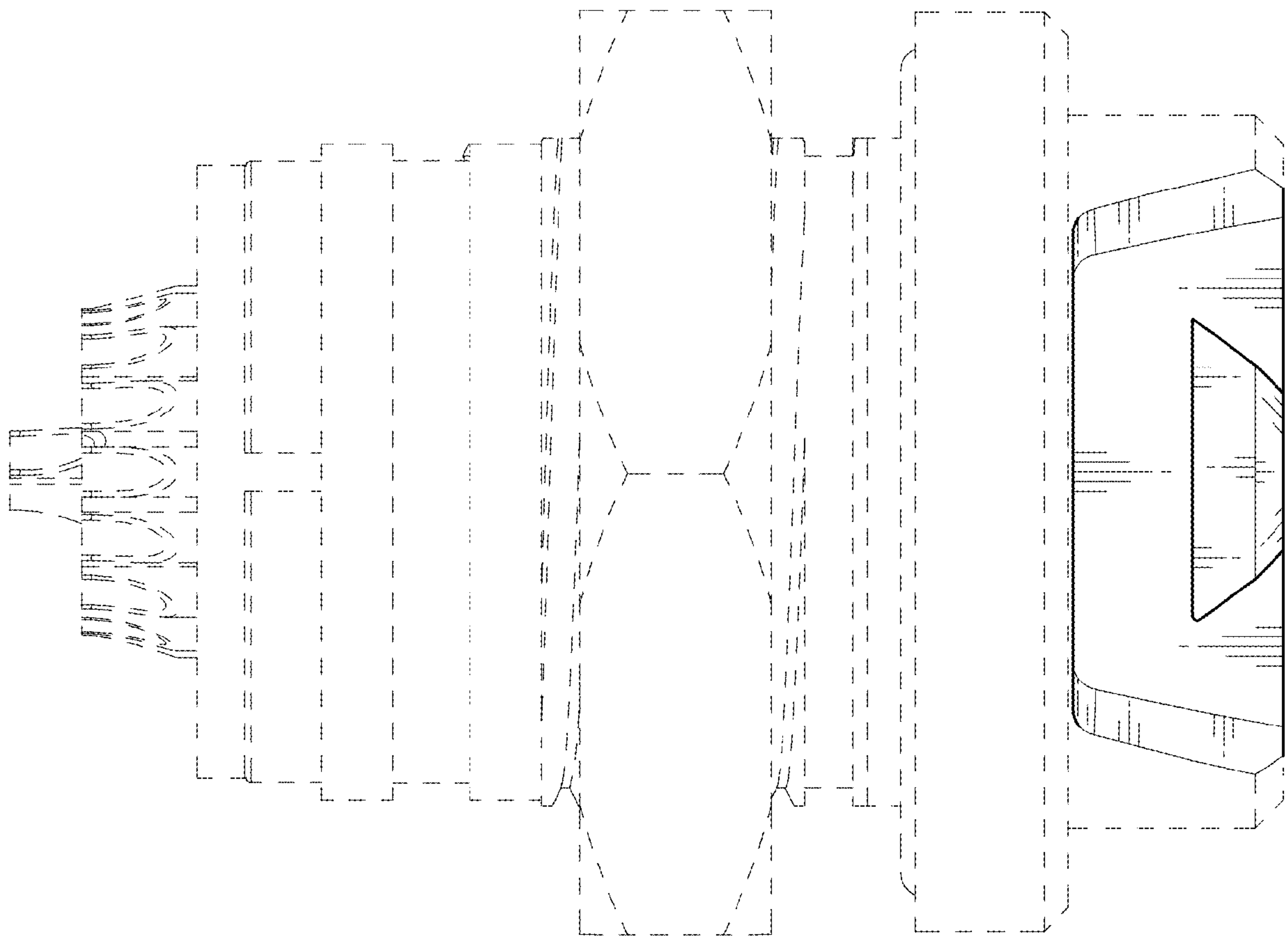


FIG. 6

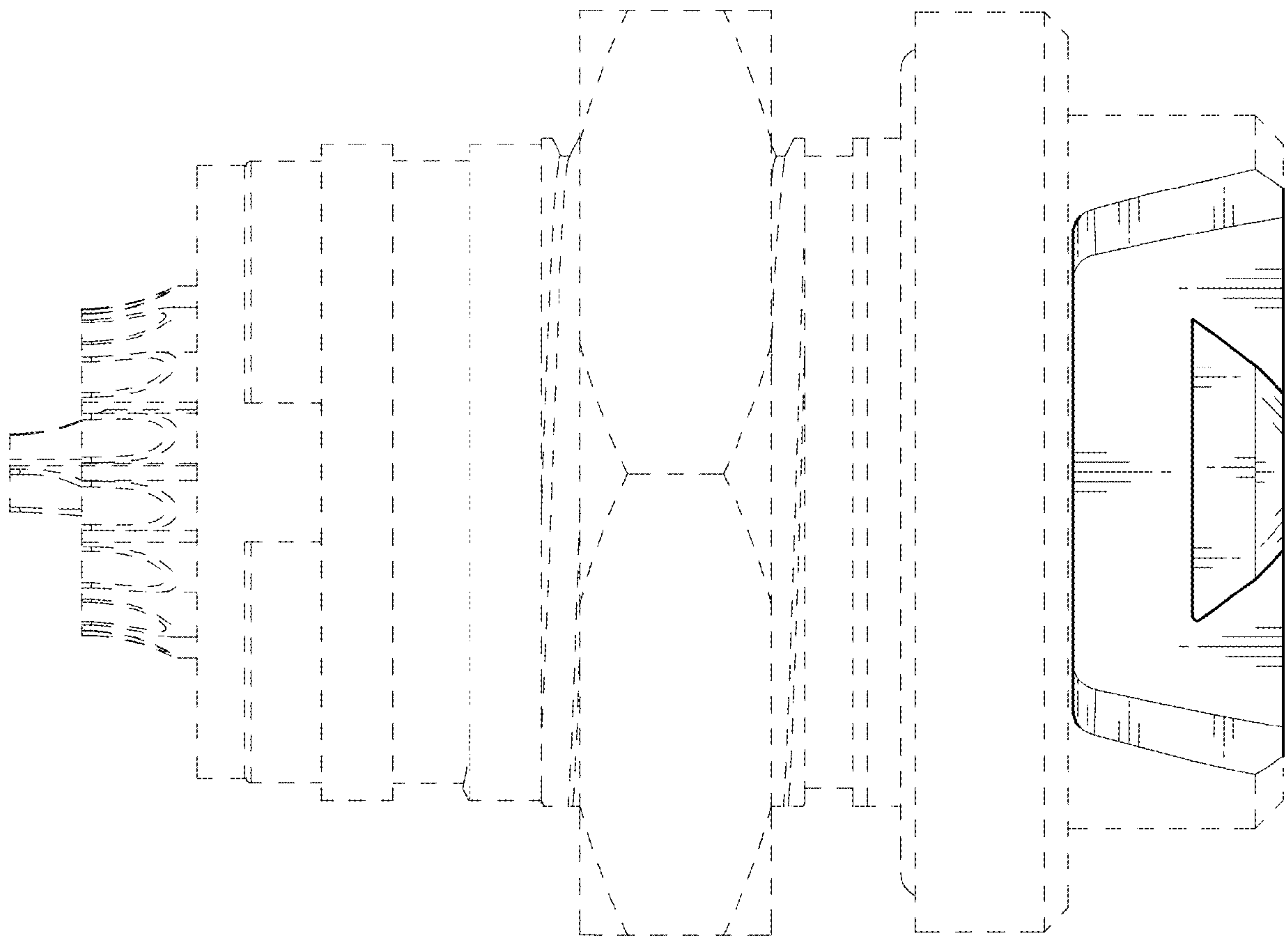


FIG. 7

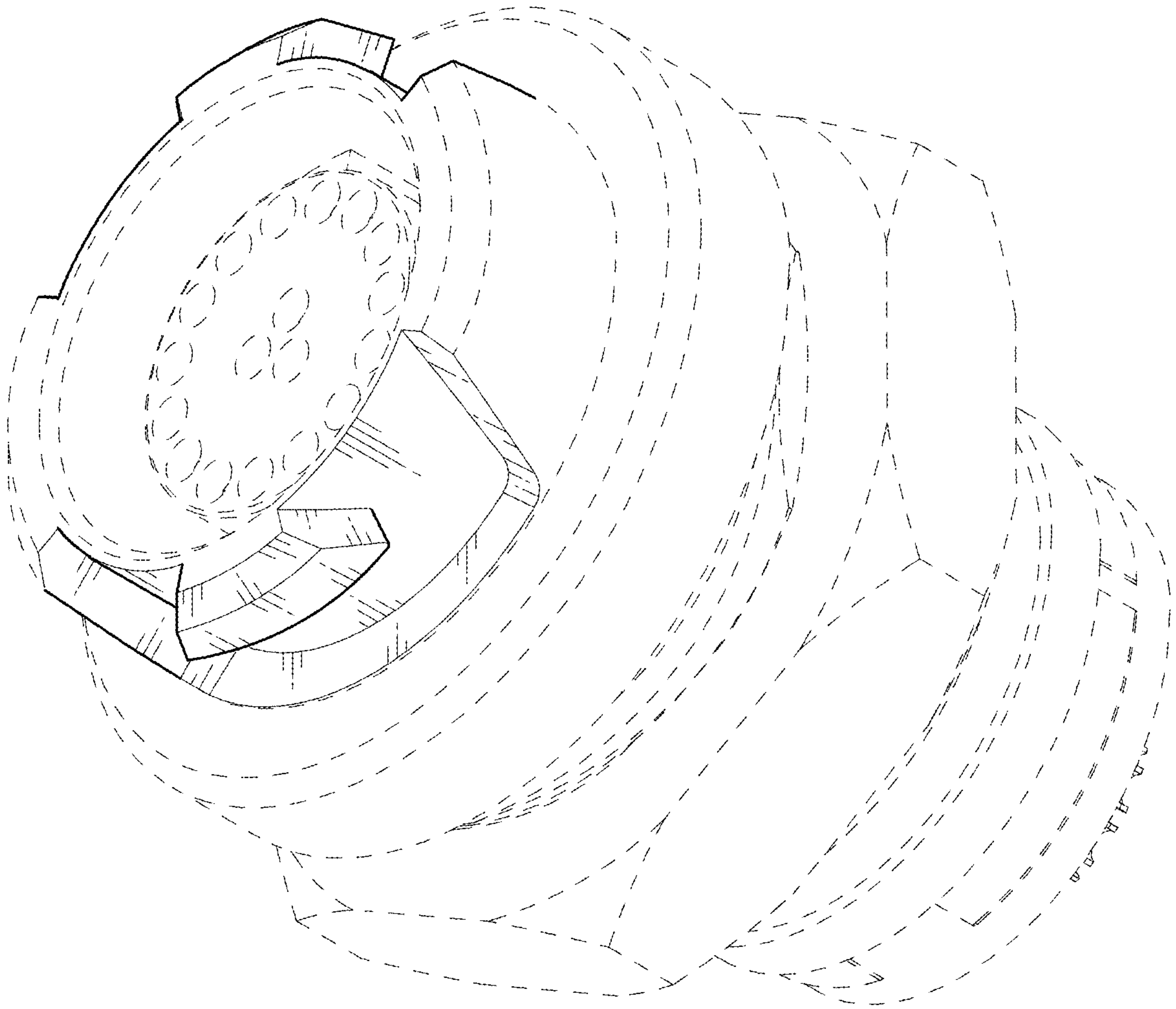


FIG. 8