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(12) **United States Design Patent** (10) **Patent No.:** **US D977,465 S**  
**Hu** (45) **Date of Patent:** **\*\* Feb. 7, 2023**

(54) **ULTRA-WIDEBAND HORN ANTENNA**

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(72) Inventor: **Nan Hu**, Irvine, CA (US)

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

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(21) Appl. No.: **29/767,342**

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(51) **LOC (14) Cl.** ..... **14-03**

(52) **U.S. Cl.**

USPC ..... **D14/230**

(58) **Field of Classification Search**

USPC ..... D14/230, 232-239, 343; D13/173, 182, D13/184, 199, 101, 117, 18, 154, 155

CPC .. G01S 13/4409; G01S 13/4481; H01P 1/161; H01Q 13/0208; H01Q 13/10; H01Q 13/00; H01Q 13/02; H01Q 13/0241;

H01Q 19/13; H01Q 3/08

See application file for complete search history.

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(57) **CLAIM**

The ornamental design for an ultra-wideband horn antenna, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of an ultra-wideband horn antenna design showing my new design.

FIG. 2 is a front view of an ultra-wideband horn antenna.

FIG. 3 is a rear view of an ultra-wideband horn antenna.

FIG. 4 is a right side view of an ultra-wideband horn antenna.

FIG. 5 is a left side view of an ultra-wideband horn antenna.

FIG. 6 is a top view of an ultra-wideband horn antenna; and,

FIG. 7 is a bottom view of an ultra-wideband horn antenna.

Any shading and cross-hatching are not features of the design but are utilized to illustrate the surface contours of the ultra-wideband horn antenna design in the drawings.

The broken lines depict portions of the ultra-wideband horn antenna that form no part of the claimed design.

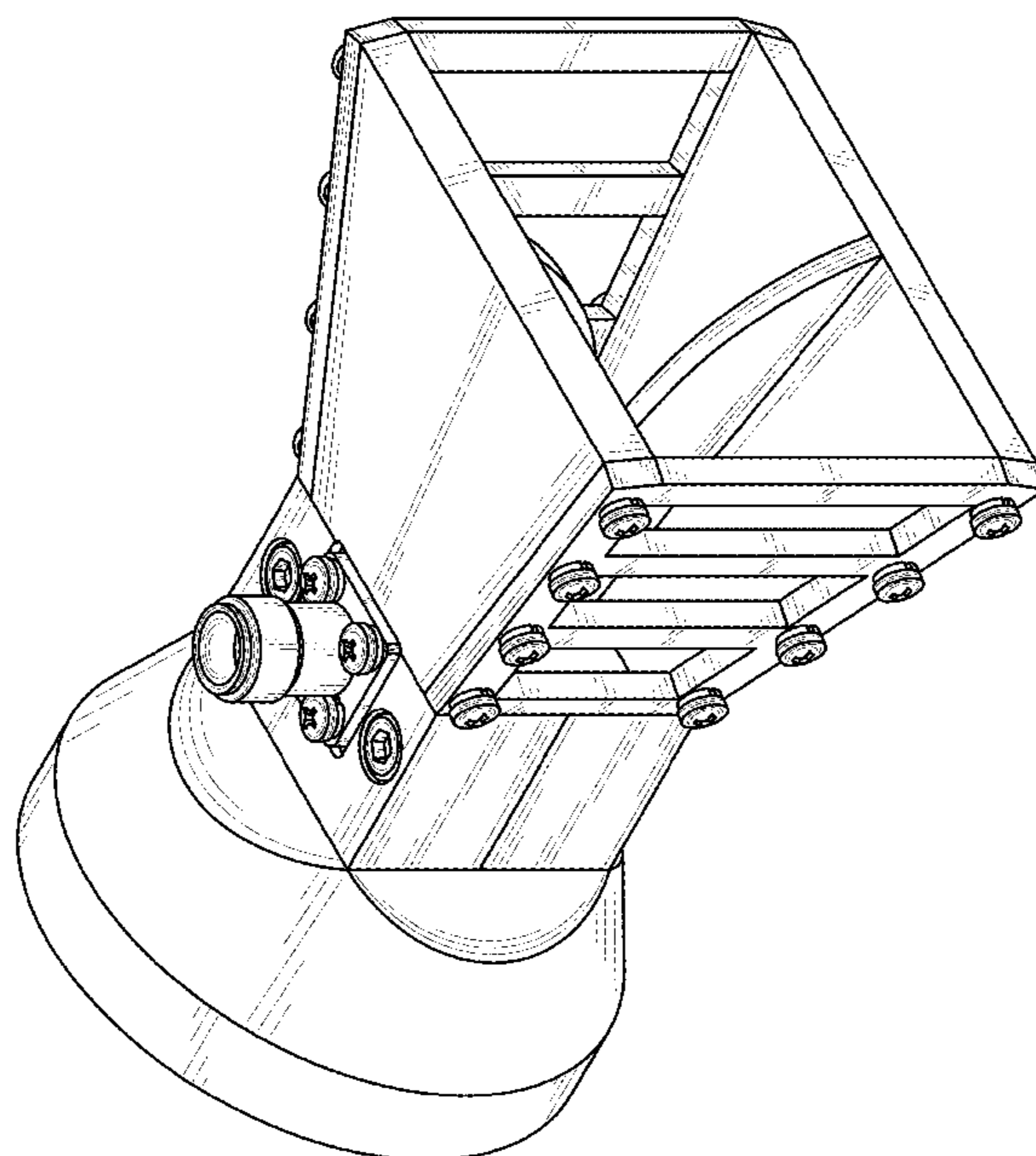
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**1 Claim, 7 Drawing Sheets**



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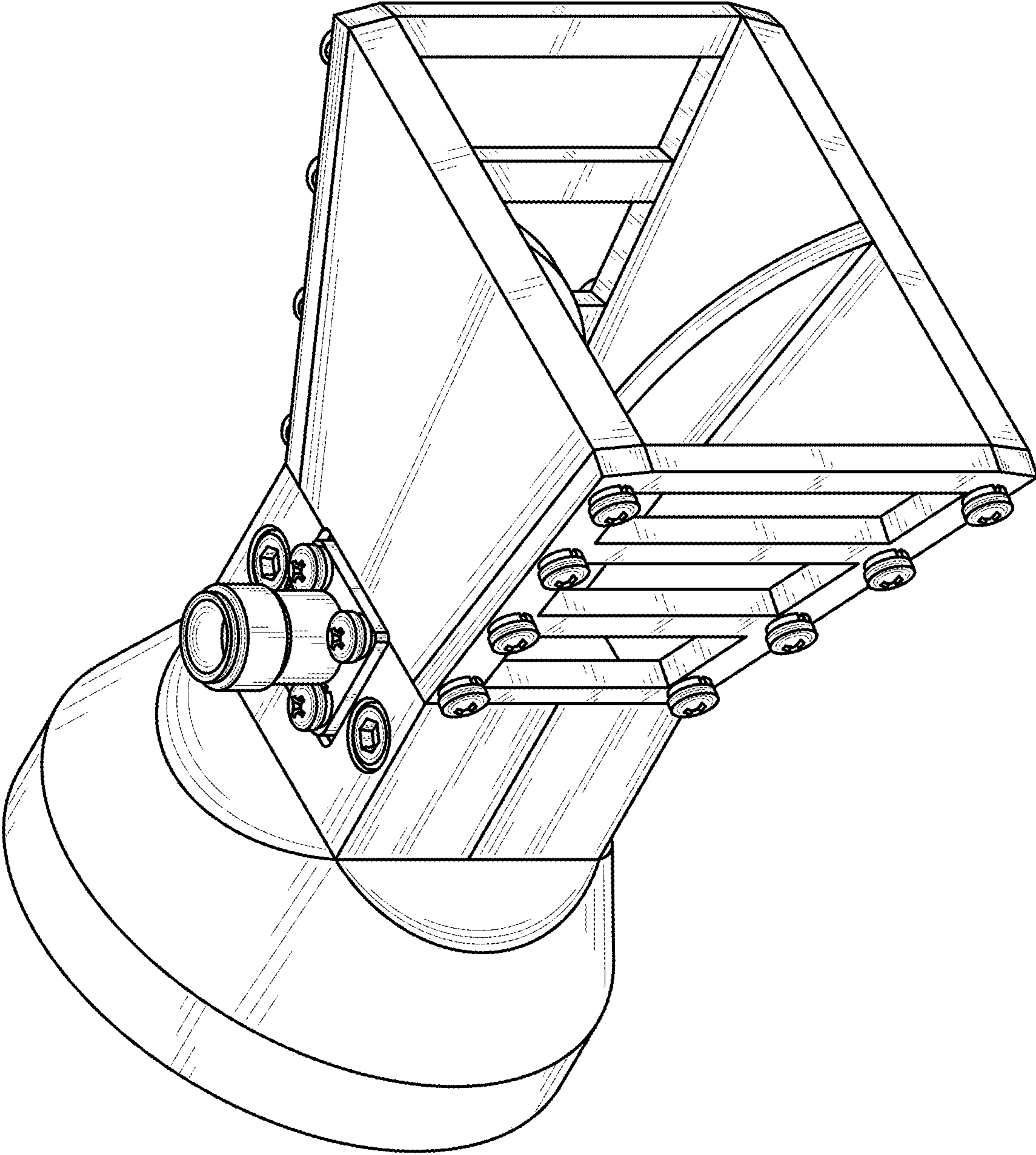


FIG. 1



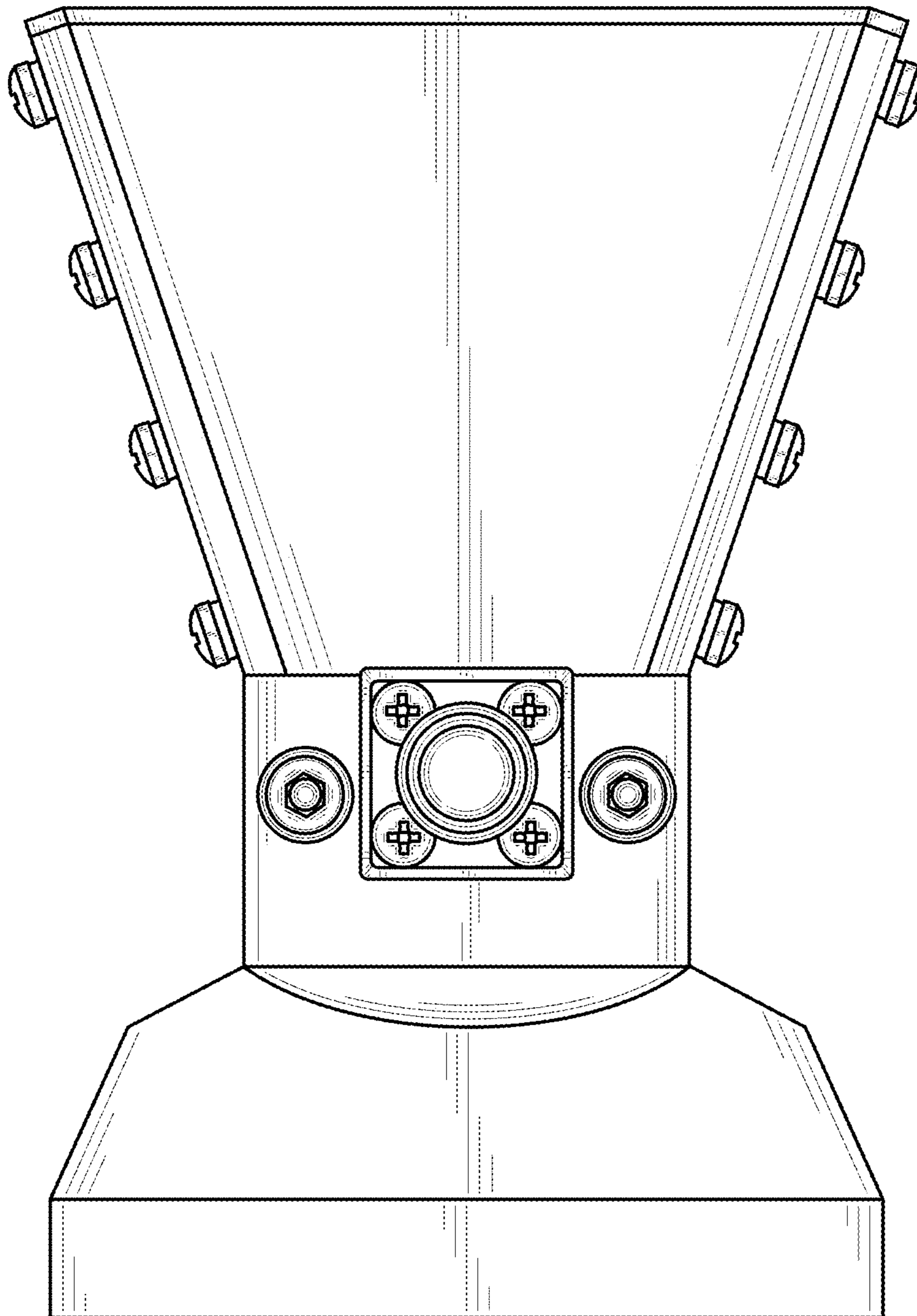


FIG. 2

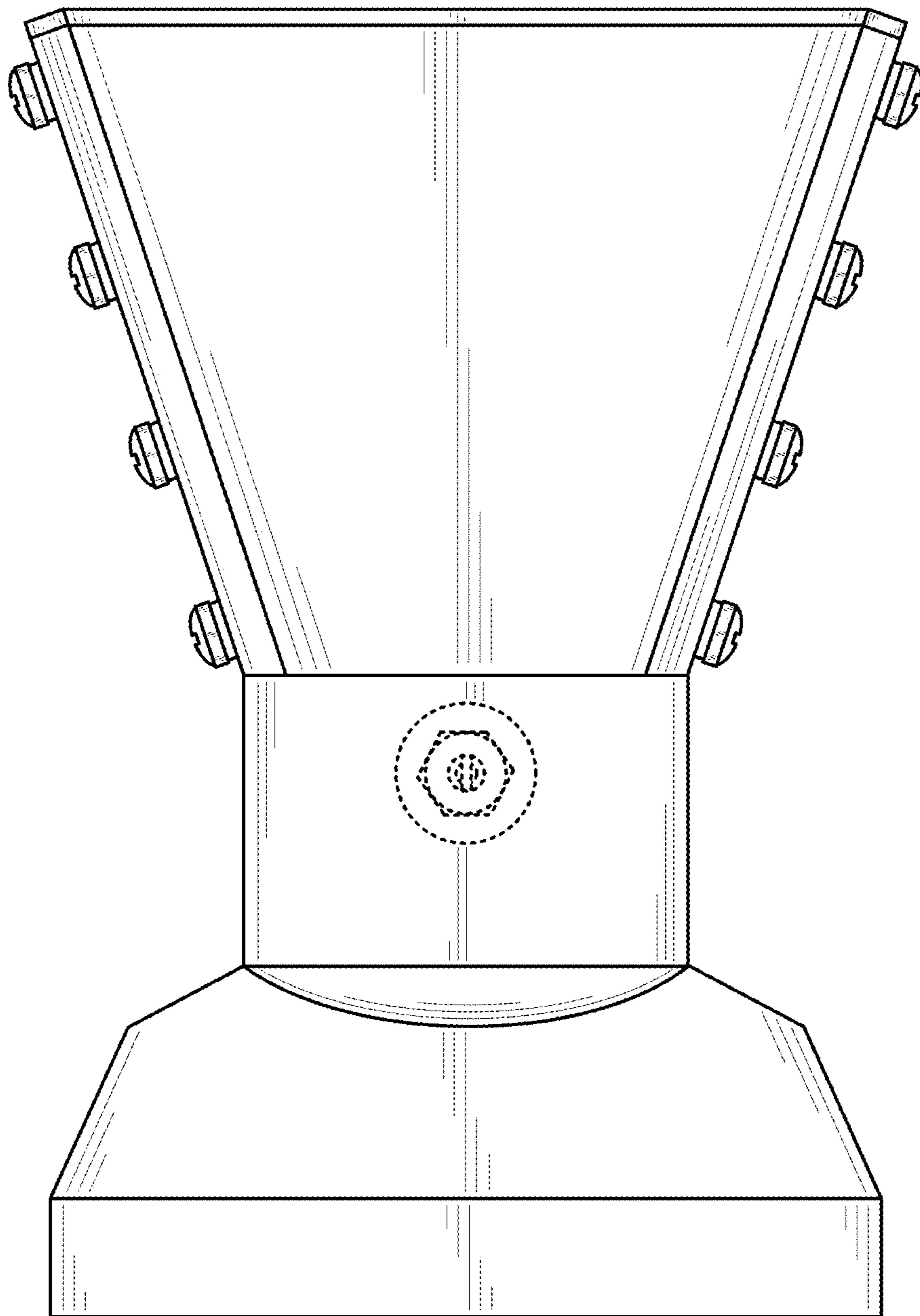


FIG. 3

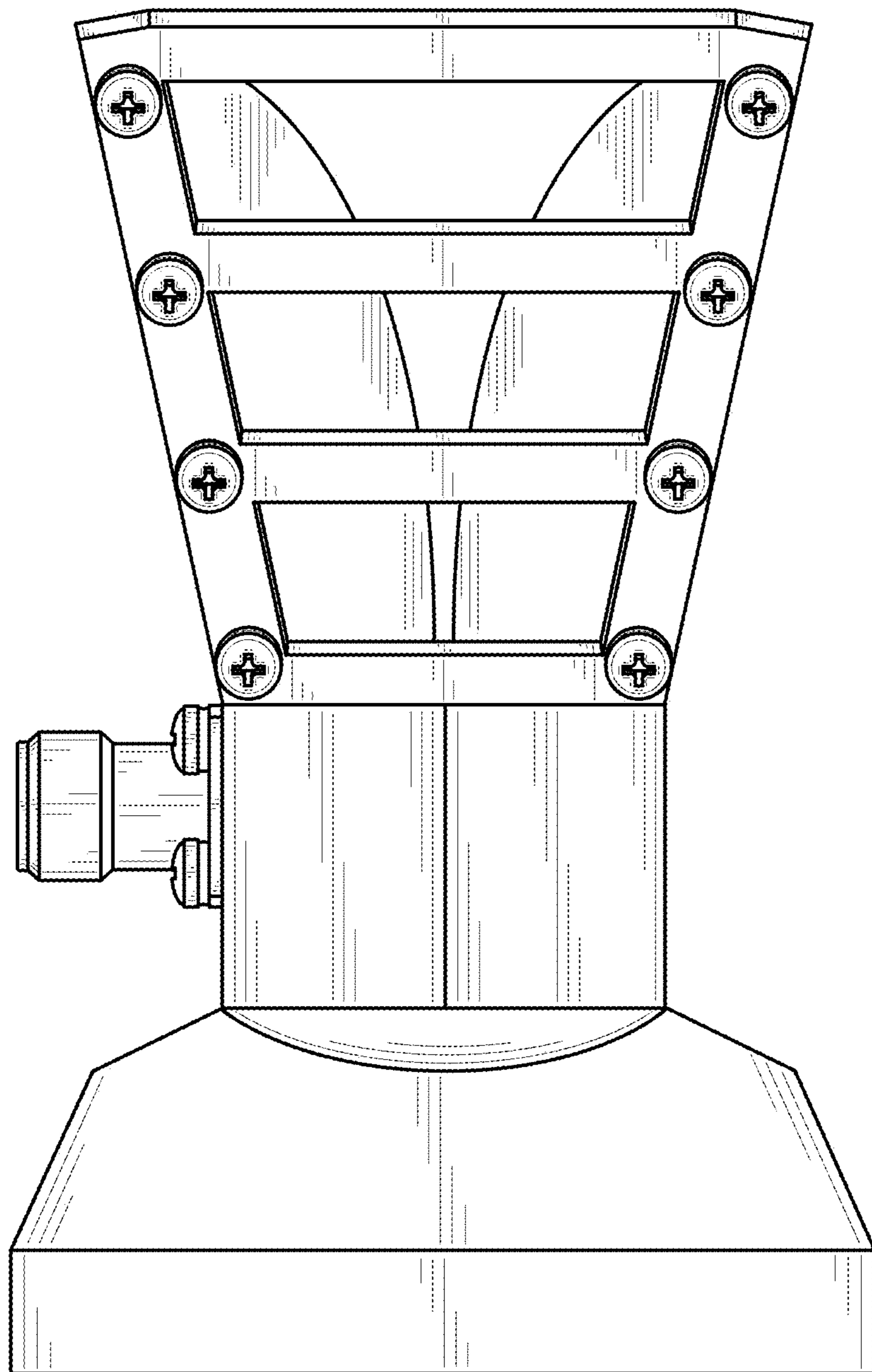


FIG. 4

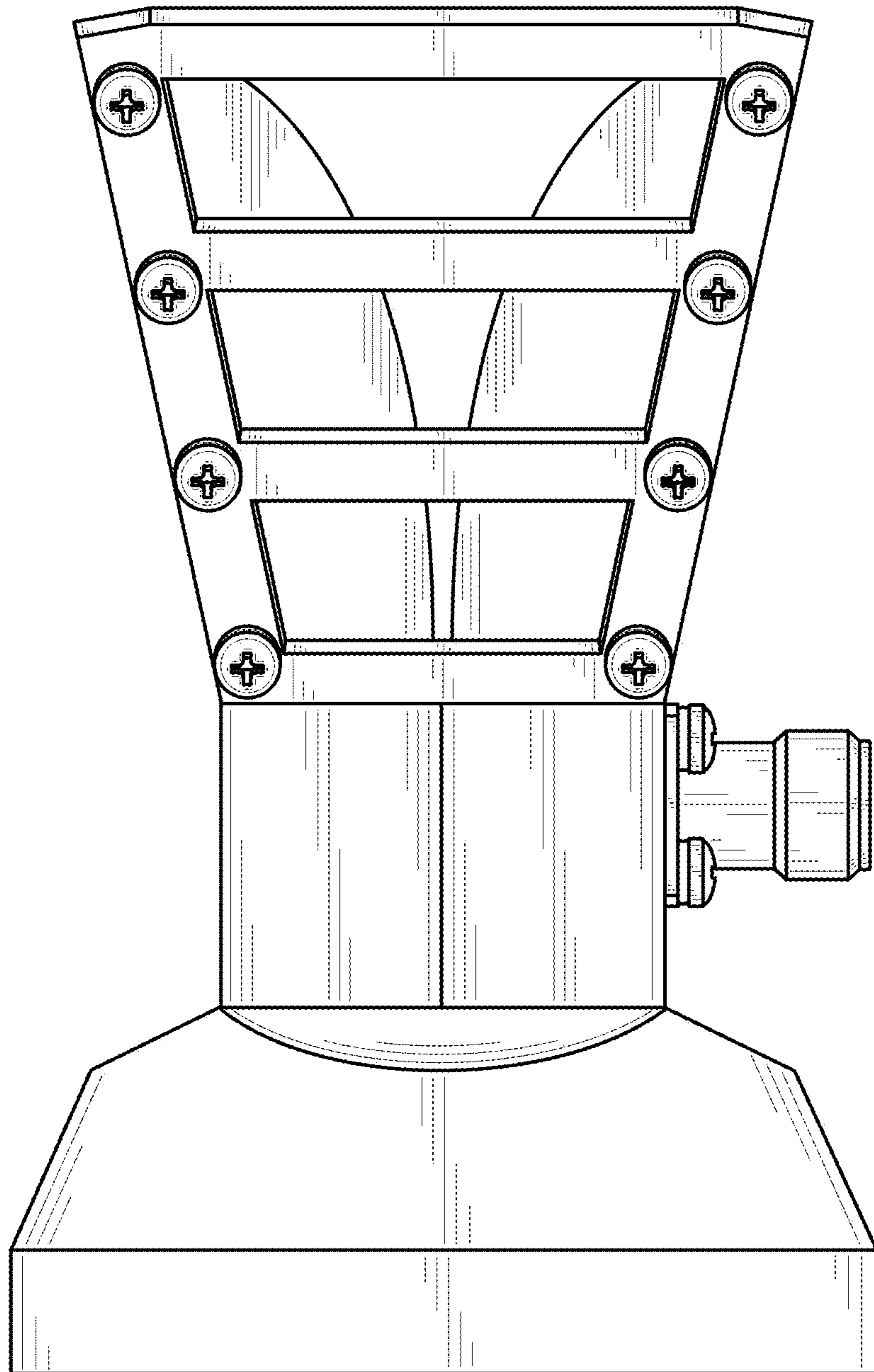


FIG. 5

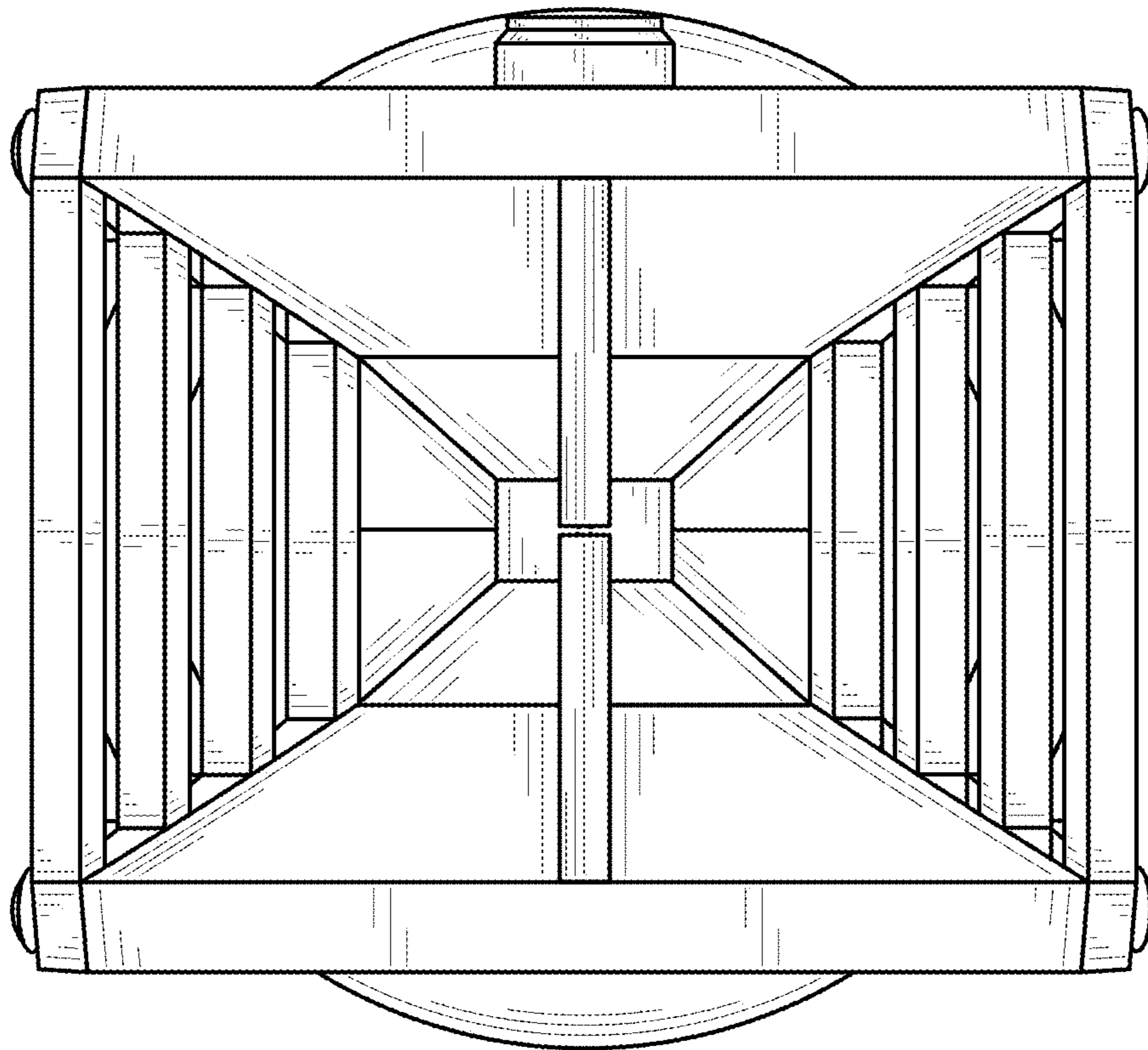


FIG. 6



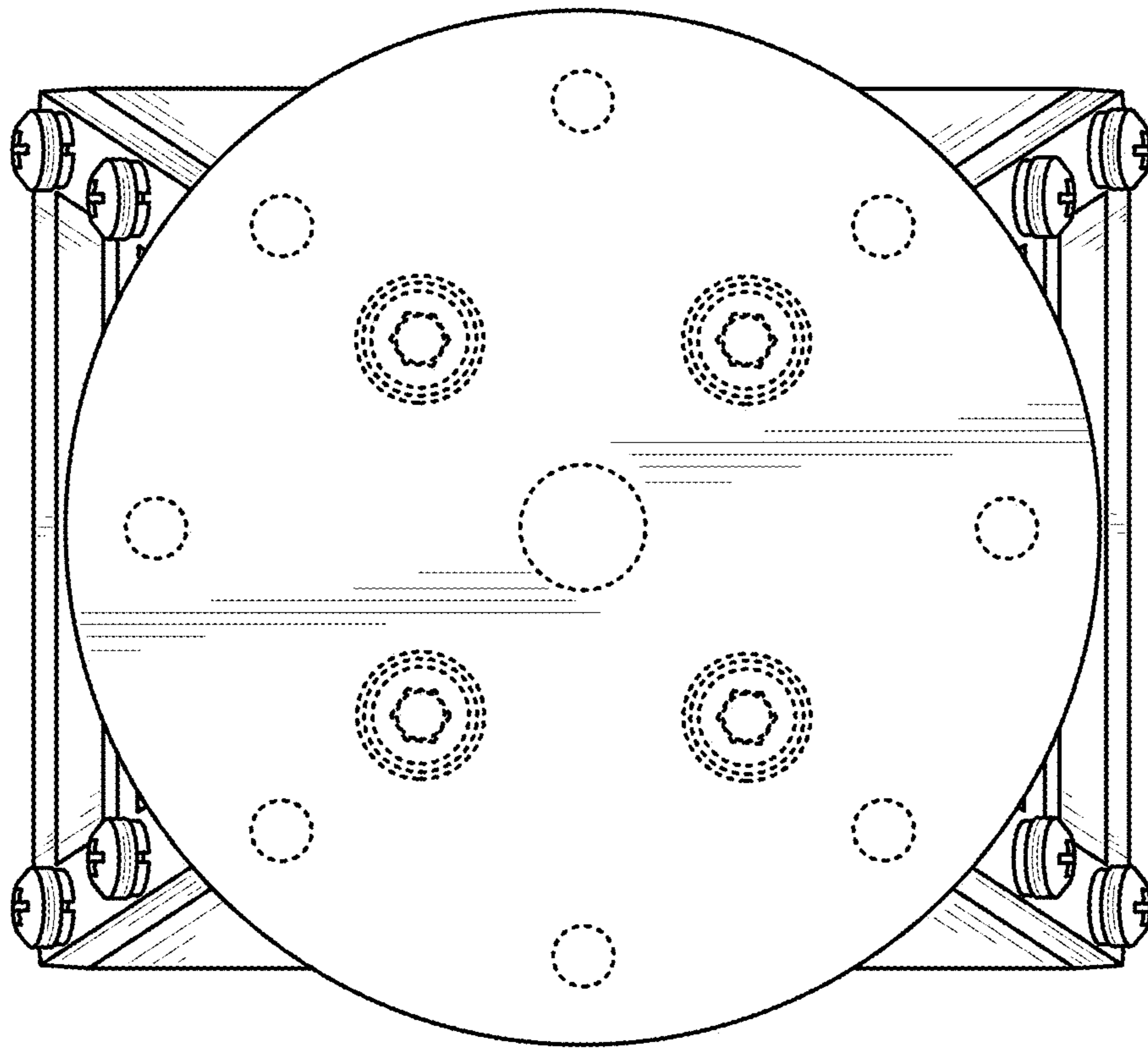


FIG. 7