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

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(54) **COLLIMATOR FOR USE IN A PHYSICAL VAPOR DEPOSITION (PVD) CHAMBER**

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(*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/833,398**

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(30) **Foreign Application Priority Data**

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Dec. 15, 2021 (JP) 2021-027602 D

(51) **LOC (14) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/182**

(58) **Field of Classification Search**
USPC D13/133, 182; D16/130; D15/138, 148,
D15/149, 199; D24/158; D26/51, 31,
D26/36, 72, 85

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(57) **CLAIM**

We claim the ornamental design for a collimator for use in a physical vapor deposition (PVD) chamber, as shown and described.

DESCRIPTION

FIG. 1 is a top isometric view of collimator for a physical vapor deposition chamber, according to one embodiment of the novel design.

FIG. 2 is a bottom isometric view thereof.

FIG. 3 is a top plan view thereof.

FIG. 4 is a bottom plan view thereof.

FIG. 5 is a front elevation view thereof.

FIG. 6 is a back elevation view thereof.

FIG. 7 is a left elevation view thereof.

FIG. 8 is a right elevation view thereof.

FIG. 9 is a cross sectional view taken along line 9-9 in FIG. 3.

FIG. 10 is a top isometric view of collimator for a physical vapor deposition chamber, according to another embodiment of the novel design.

FIG. 11 is a bottom isometric view thereof.

FIG. 12 is a top plan view thereof.

FIG. 13 is a bottom plan view thereof.

FIG. 14 is a front elevation view thereof.

FIG. 15 is a back elevation view thereof.

FIG. 16 is a left elevation view thereof.

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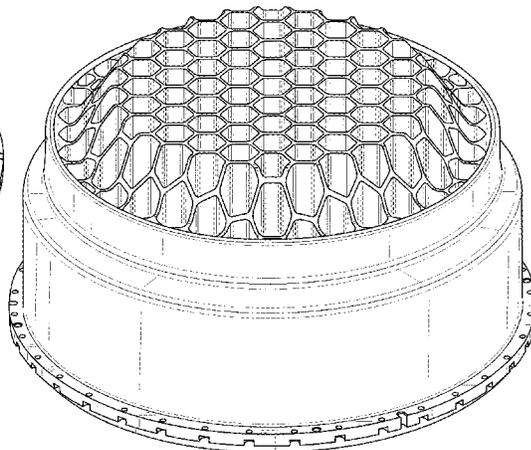
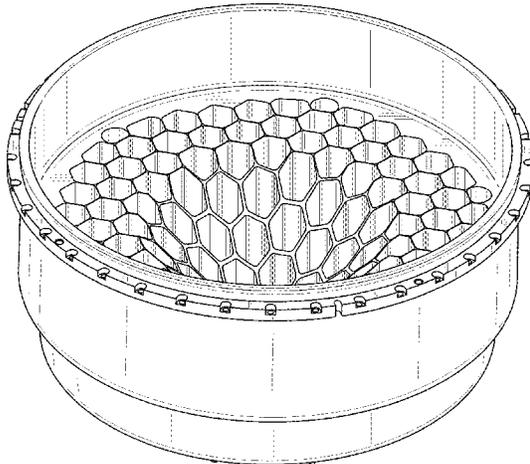


FIG. 17 is a right elevation view thereof; and, FIG. 18 is a cross sectional view taken along line 18-18 in FIG. 12.

The dashed lines in FIGS. 10-18 represent unclaimed environment and form no part of the claimed design.

1 Claim, 18 Drawing Sheets

(58) **Field of Classification Search**

CPC A61N 5/1045; G01N 2223/055; G01N 2201/0813; G01N 2223/3301; G11B 7/1376; G02B 7/1376; H01H 2219/058
See application file for complete search history.

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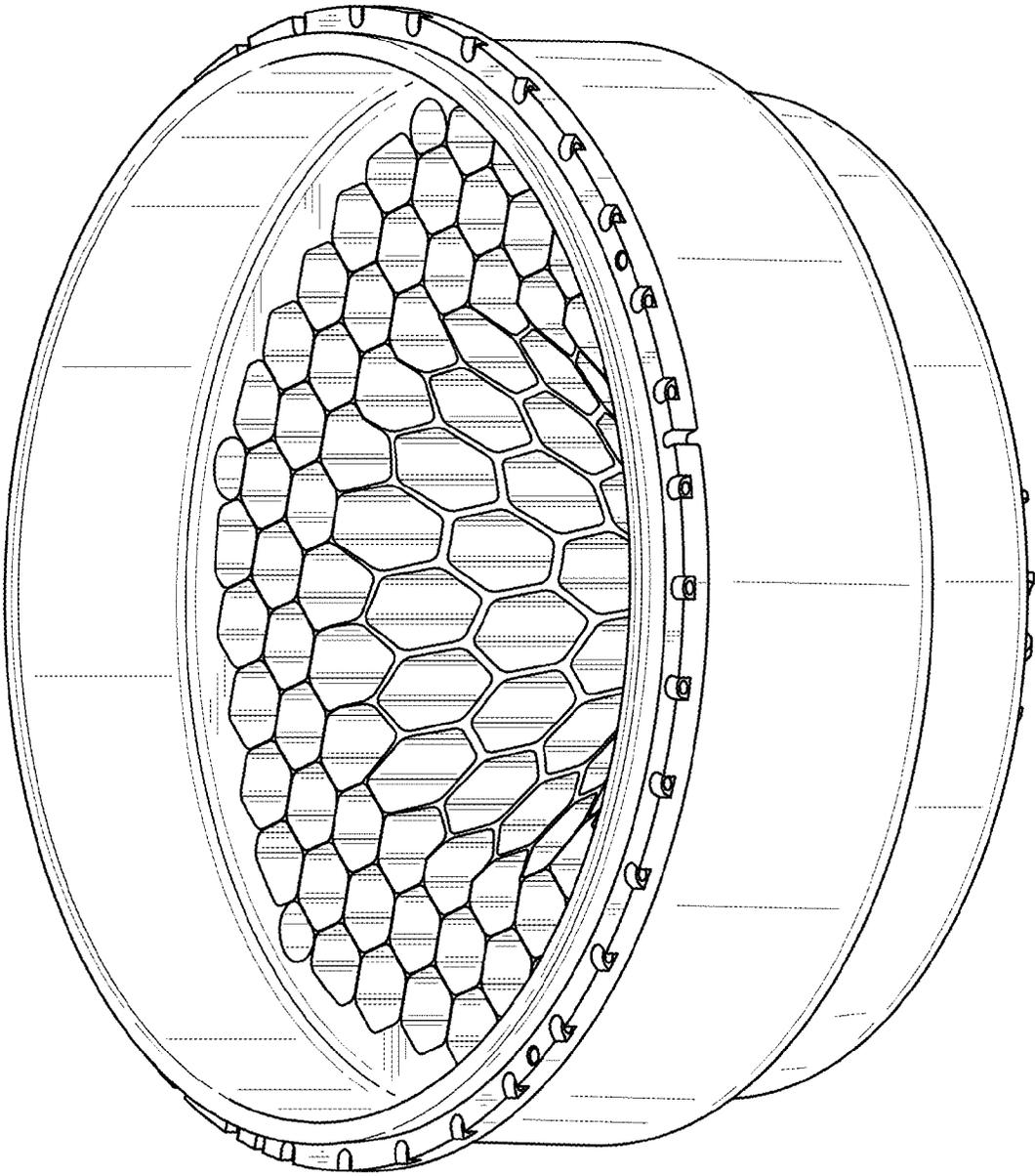


FIG. 1

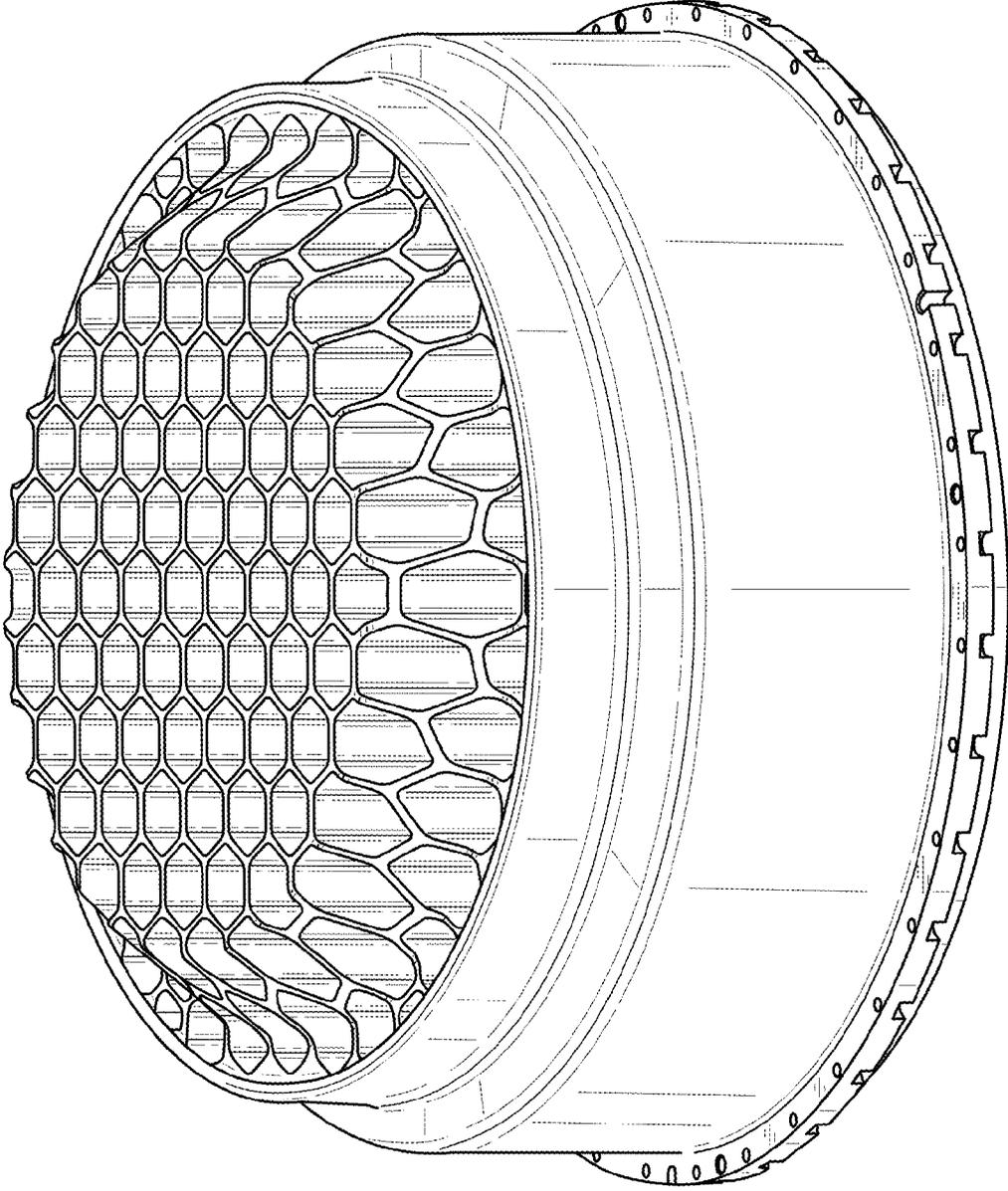


FIG. 2

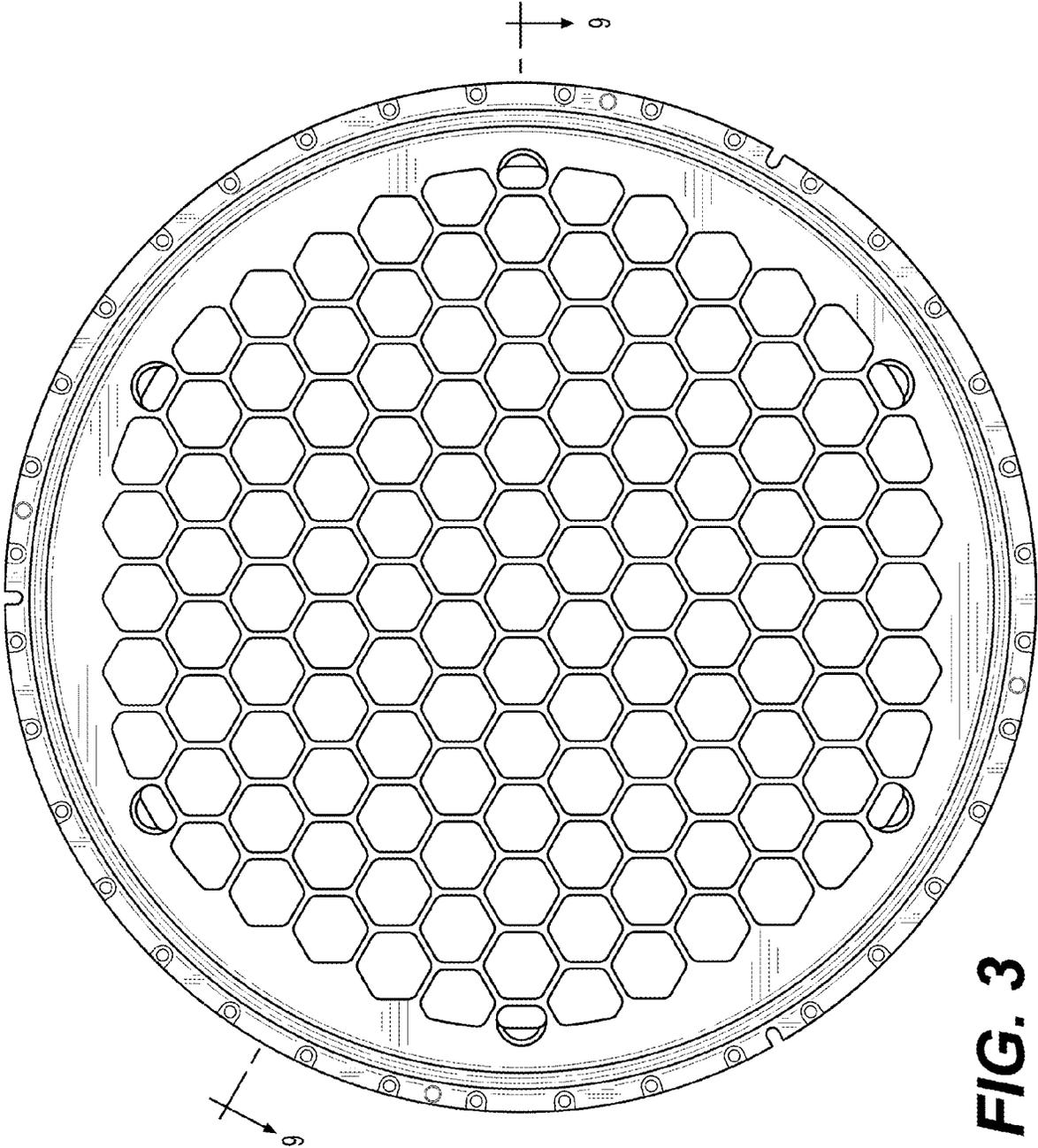


FIG. 3

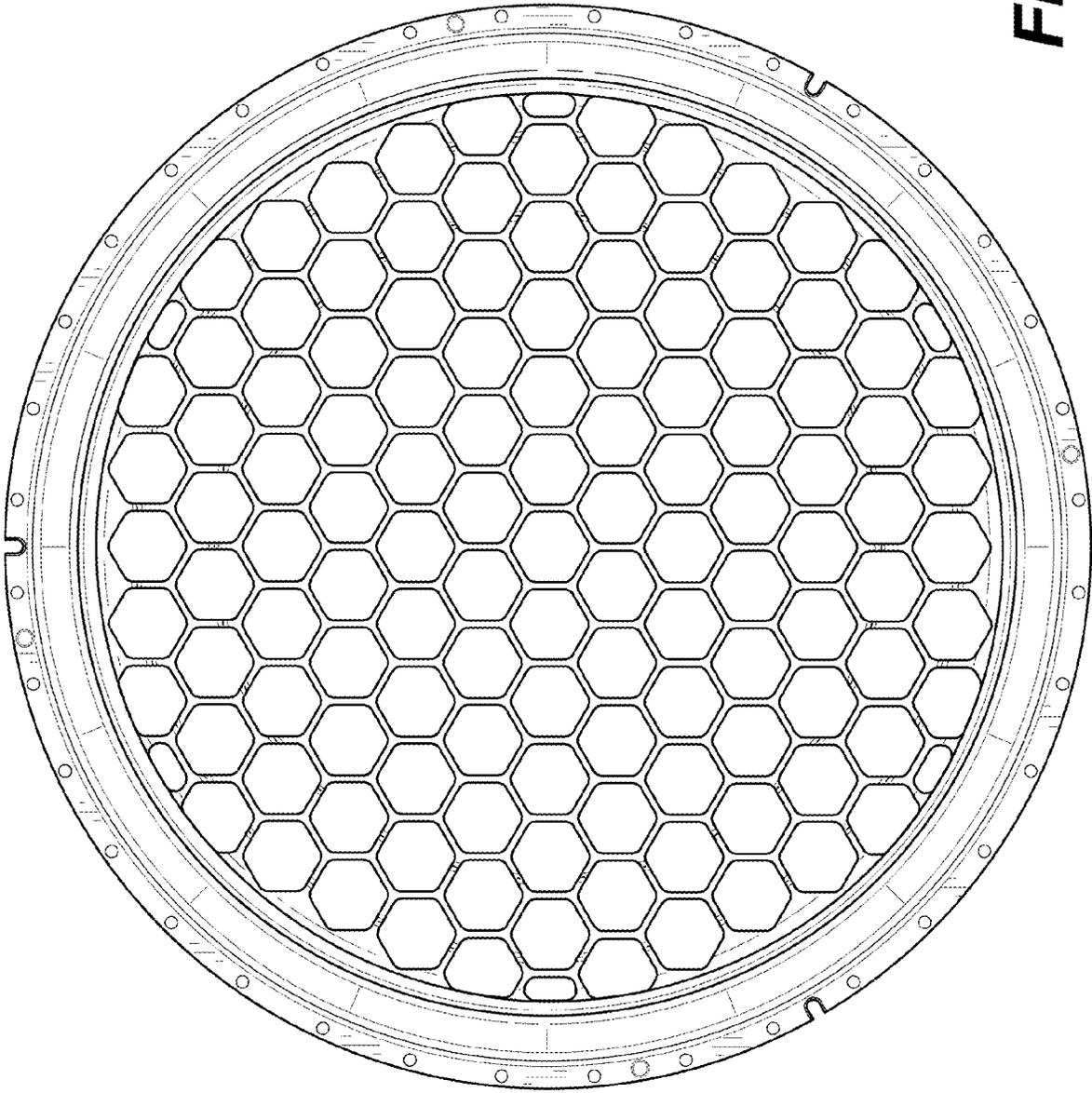


FIG. 4

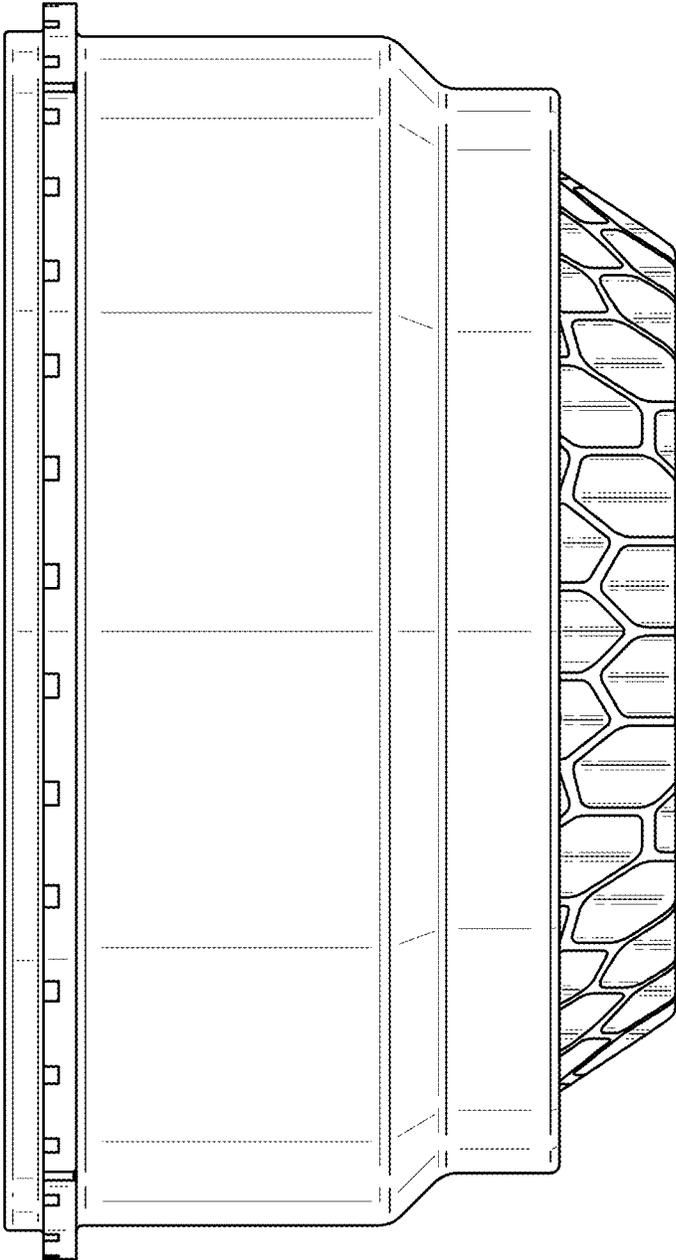


FIG. 5

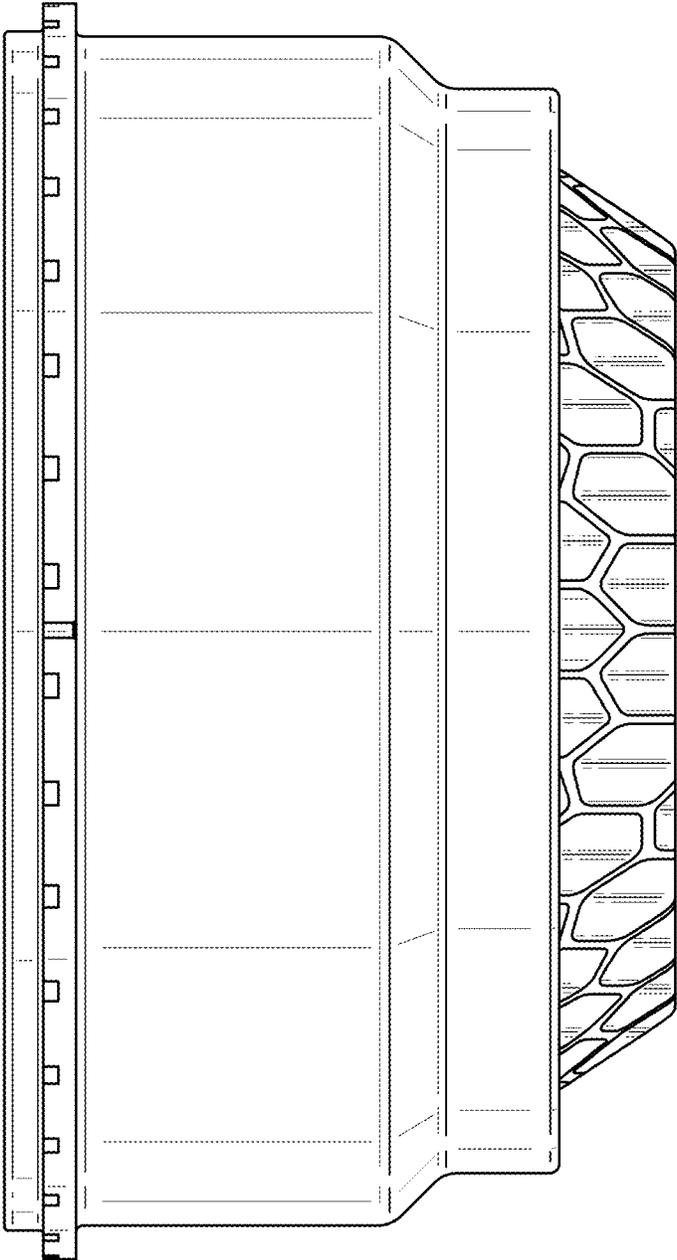


FIG. 6

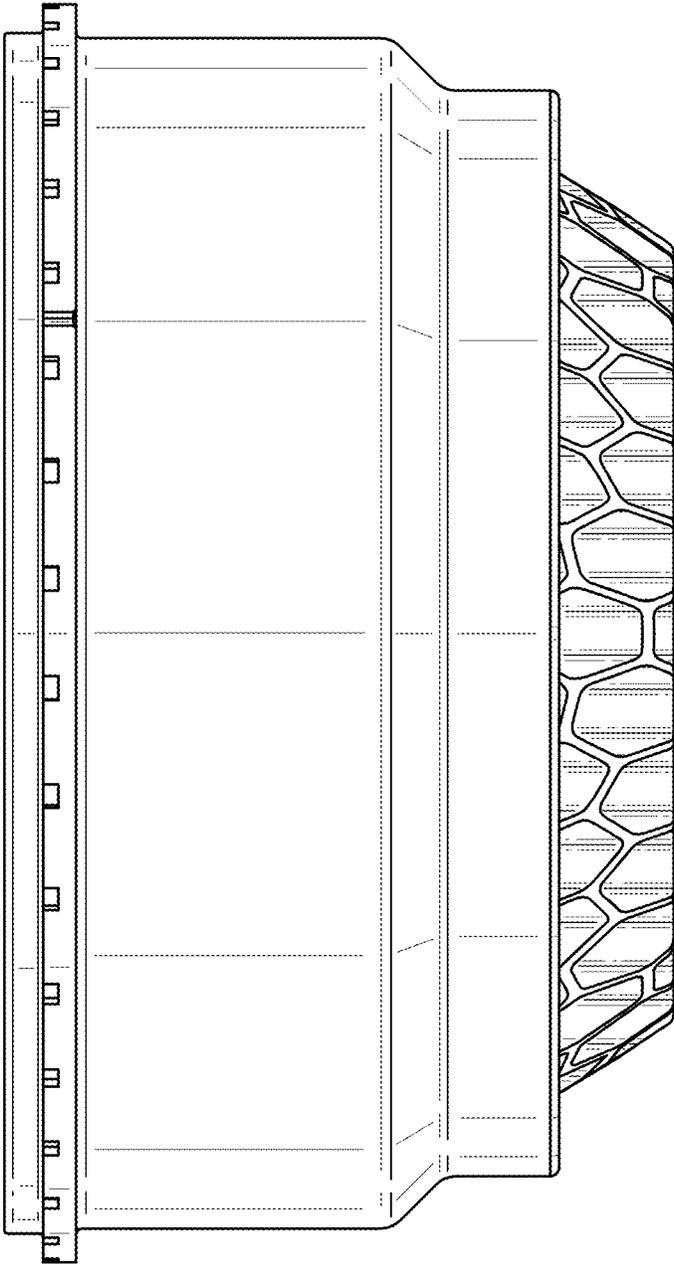


FIG. 7

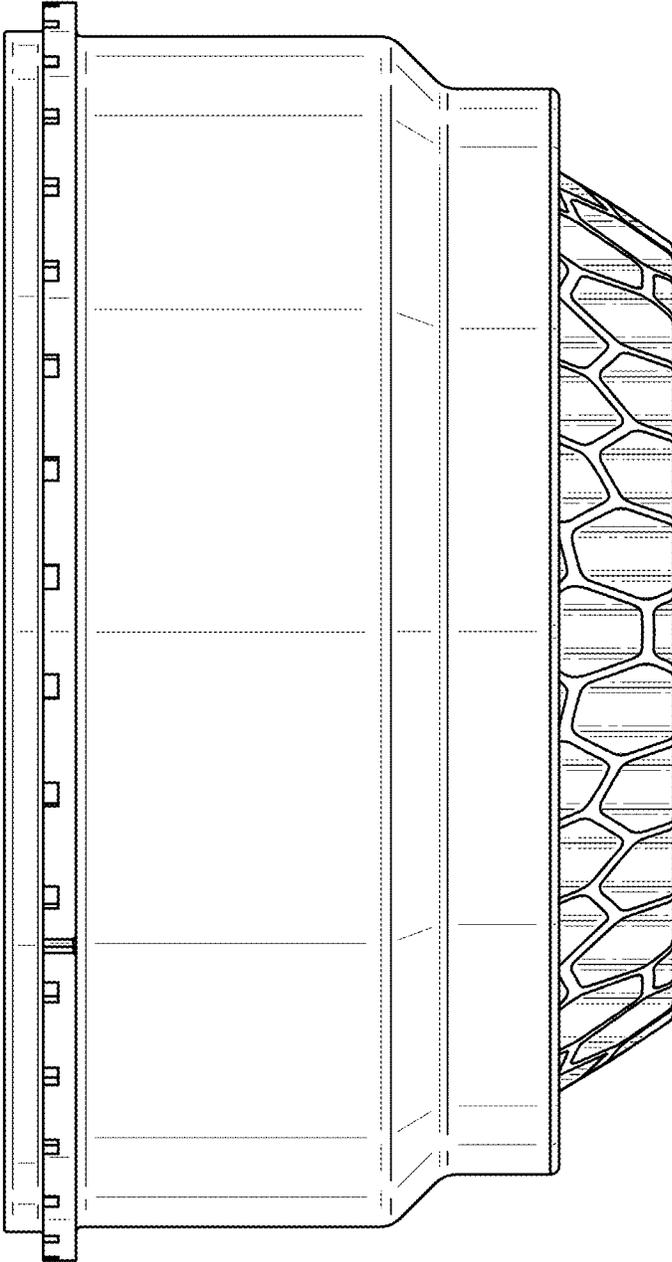


FIG. 8

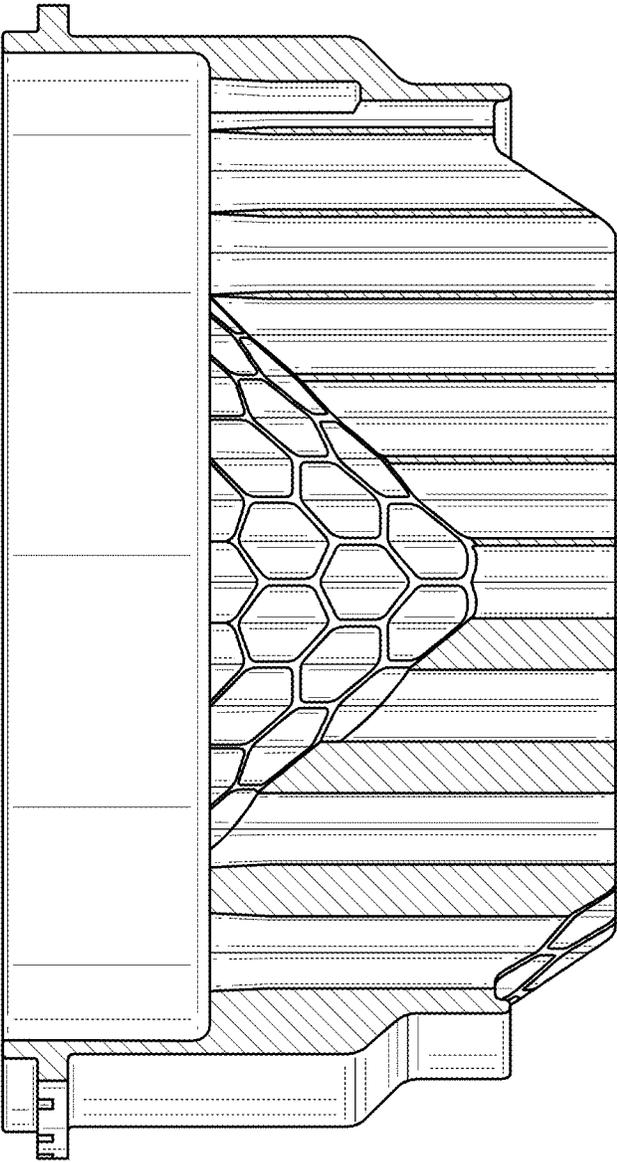


FIG. 9

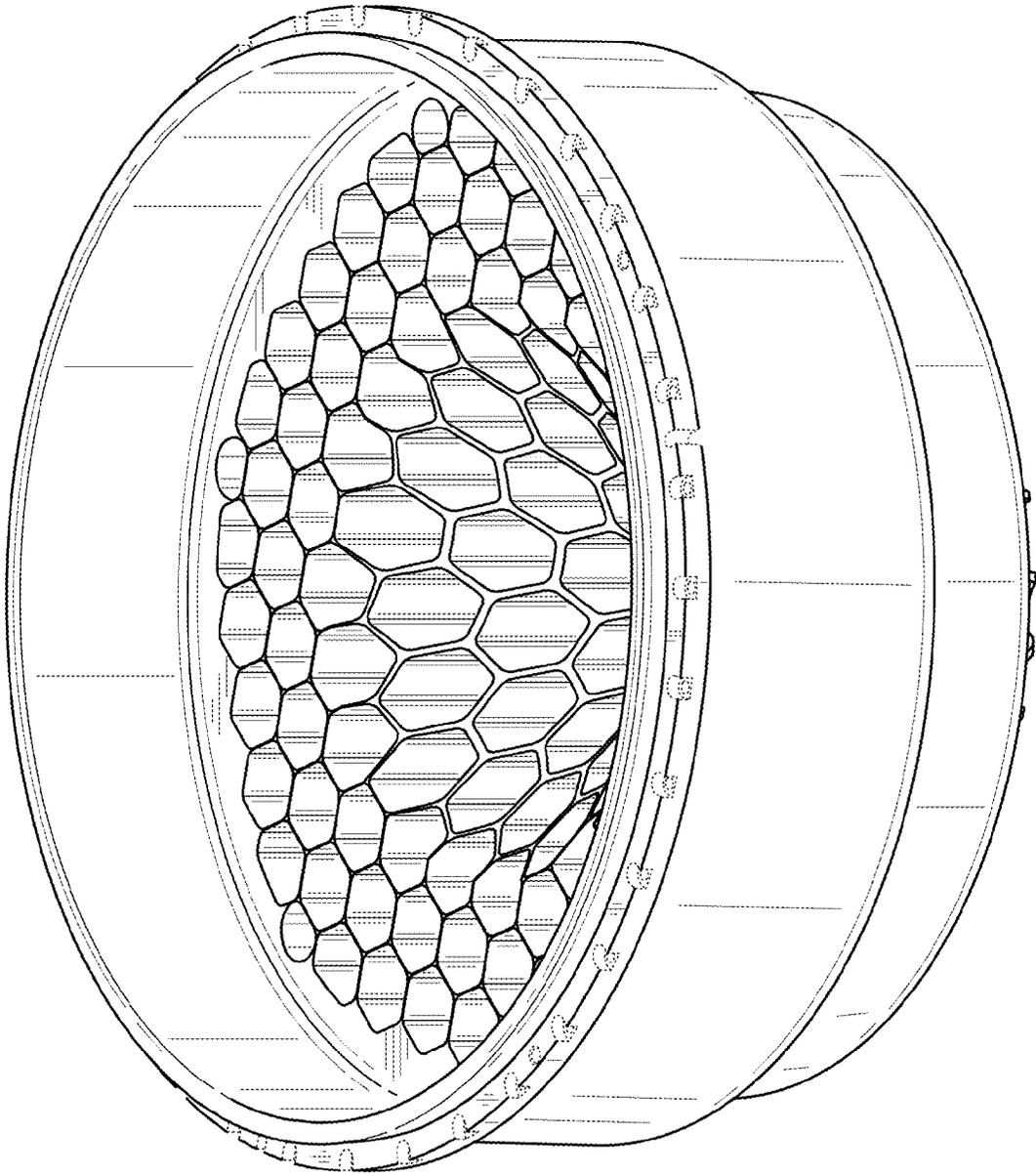


FIG. 10

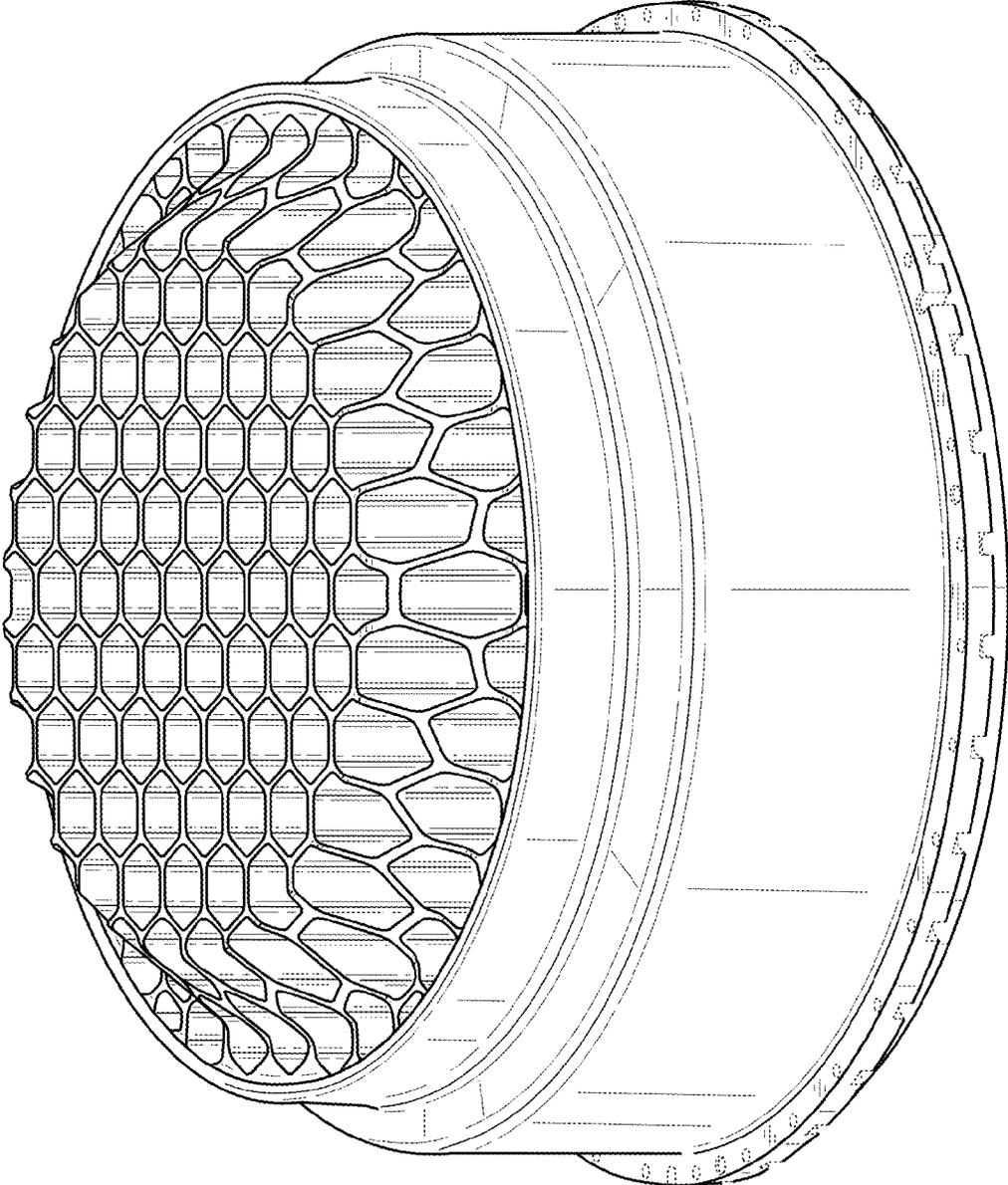


FIG. 11

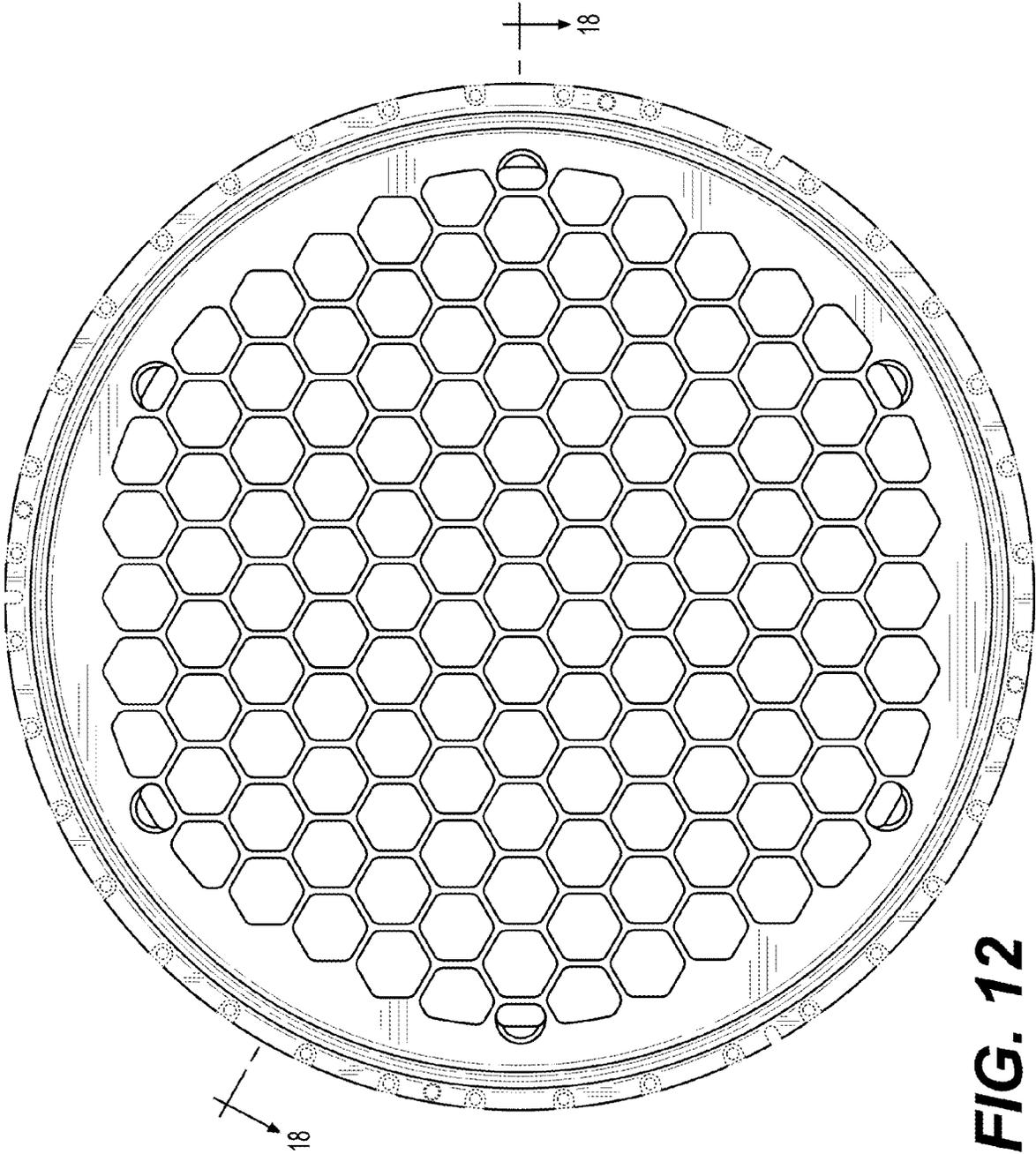


FIG. 12

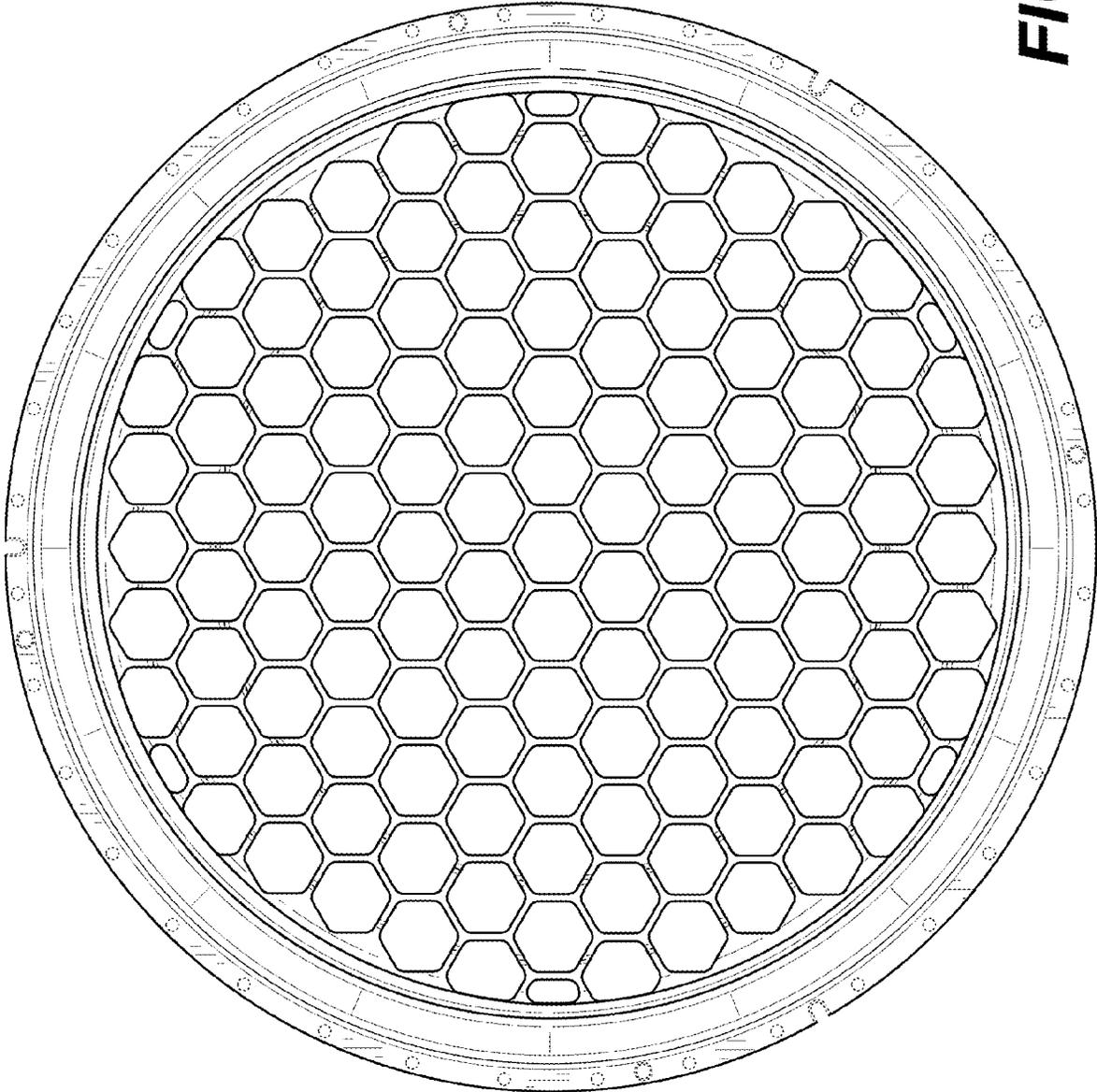


FIG. 13

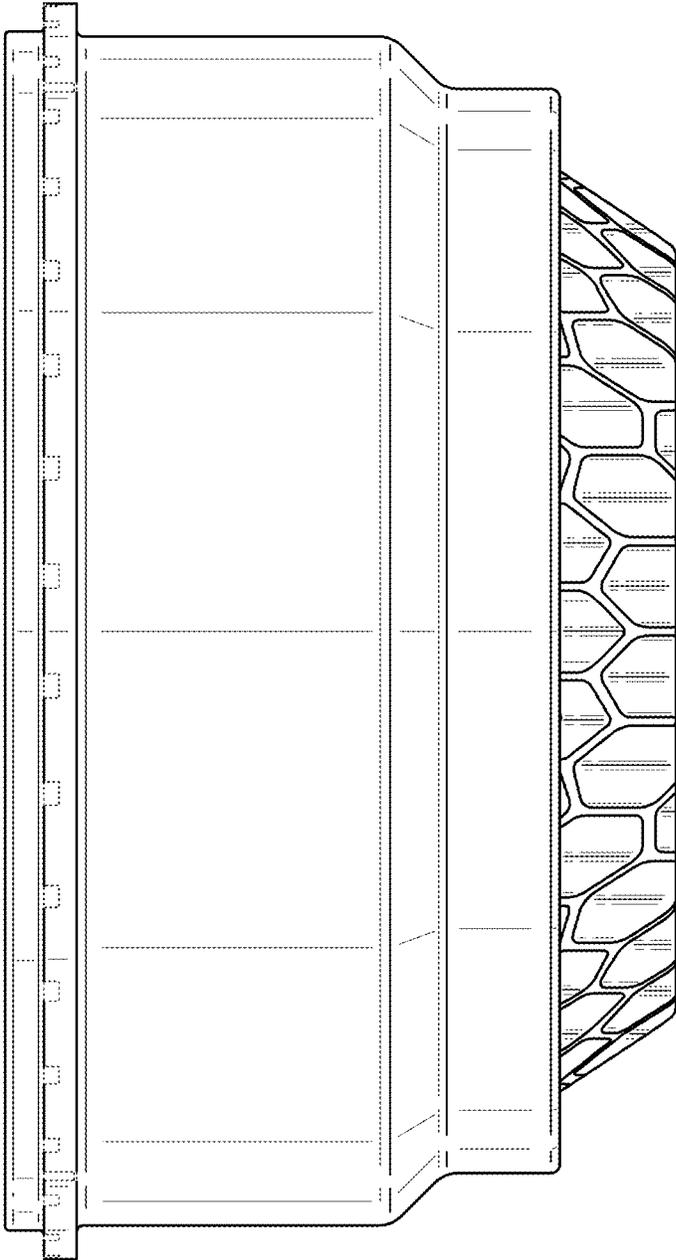


FIG. 14

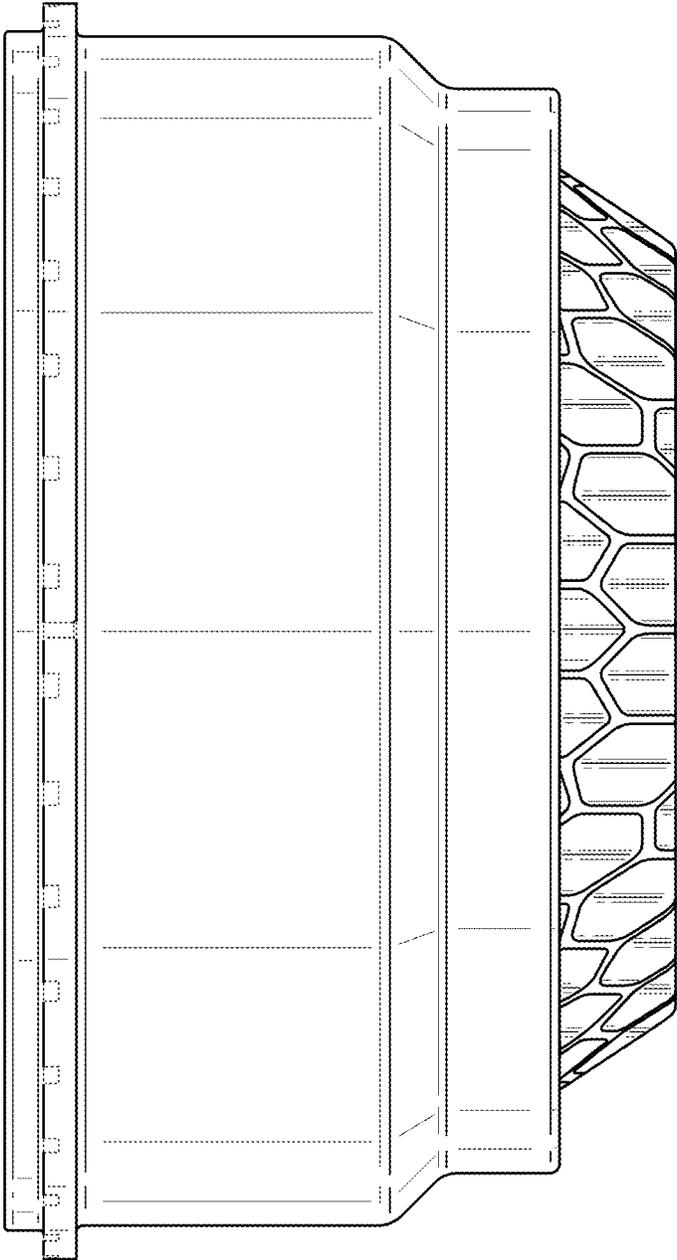


FIG. 15

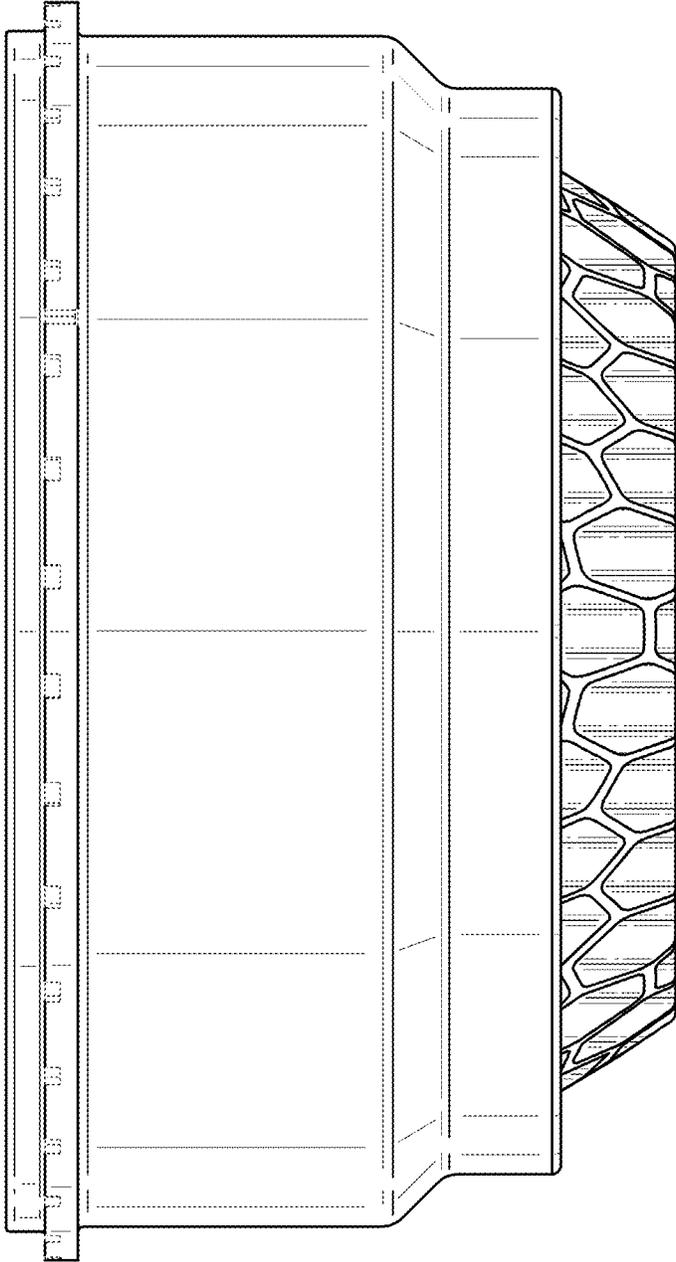


FIG. 16

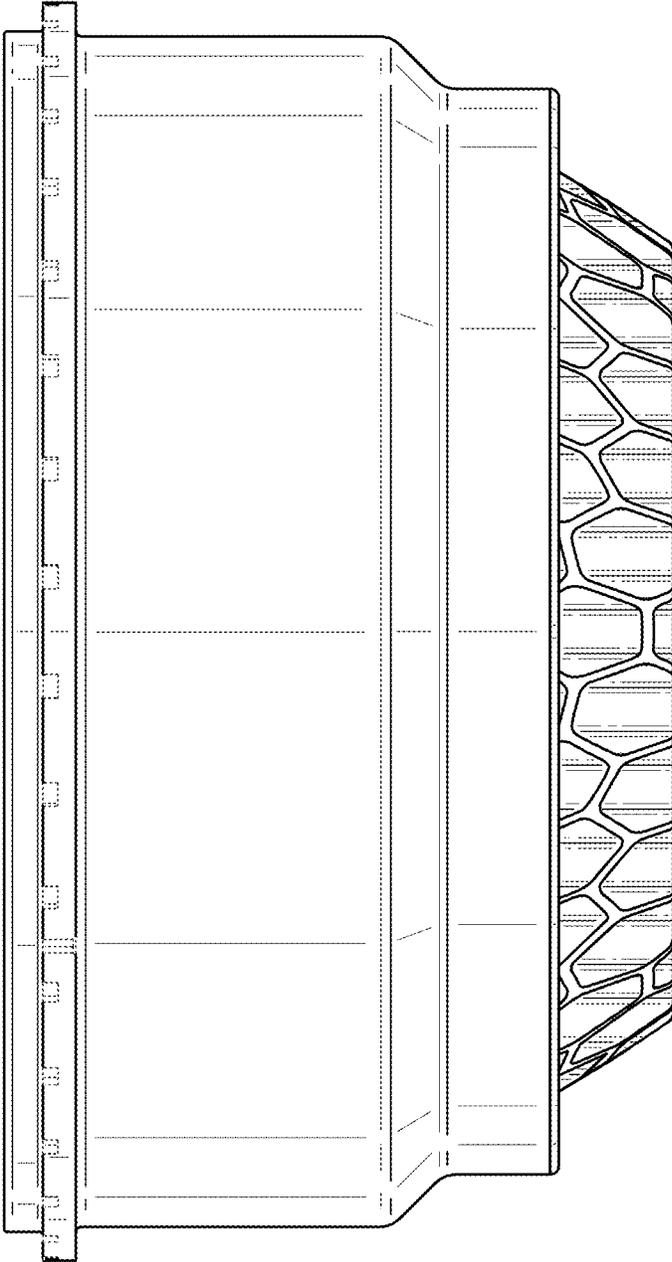


FIG. 17

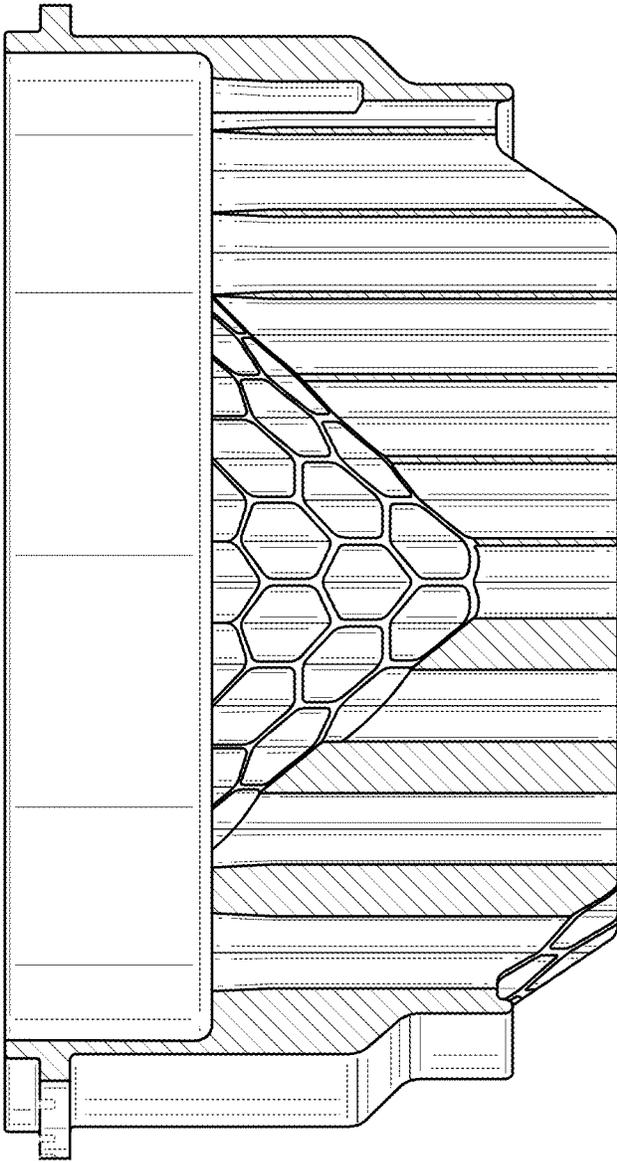


FIG. 18