



US00D920216S

(12) **United States Design Patent** (10) **Patent No.:** **US D920,216 S**
Carpenter et al. (45) **Date of Patent:** **** May 25, 2021**

(54) **COMBINED STATOR AND SPINDLE FOR A DUCTED ROTOR**

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

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(51) **LOC (13) Cl.** **12-07**

(52) **U.S. Cl.**
USPC **D12/345**

(58) **Field of Classification Search**
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D21/436-455; D13/109
CPC B64C 29/0033; B64C 2201/021; B64C
29/02; B64C 2201/088; B64C 2201/104;
B64C 2201/141

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,432,516 A * 2/1984 Muscatell B64C 3/48
244/113
5,590,854 A * 1/1997 Shatz B64C 3/141
244/206
D887,948 S * 6/2020 Loveland D12/328
2013/0089422 A1 * 4/2013 Brunken, Jr. B64C 27/473
416/23
2013/0233976 A1 * 9/2013 Nagel B64C 9/00
244/201

- 2016/0053742 A1 * 2/2016 Harwood F03D 3/0454
415/121.3
2018/0208305 A1 * 7/2018 Lloyd B60L 50/61
2019/0084664 A1 * 3/2019 Nesti B64C 23/069
2020/0017190 A1 * 1/2020 Decker B64C 3/185
2020/0239134 A1 * 7/2020 Robertson B64C 29/0033
2020/0239152 A1 * 7/2020 Rainville B64D 33/08

* cited by examiner

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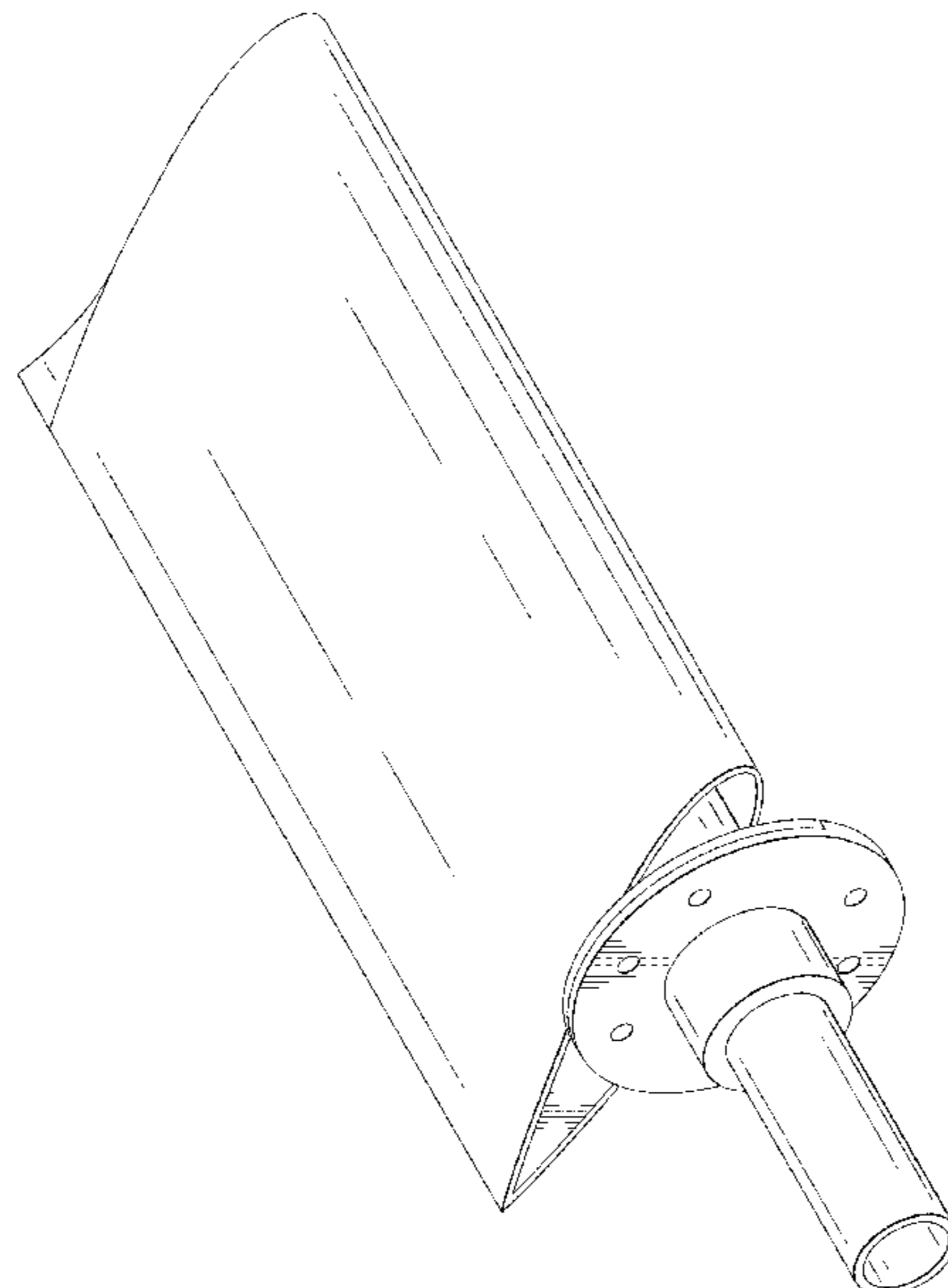
(57) **CLAIM**

The ornamental design for a combined stator and spindle for a ducted rotor, substantially as shown and described.

DESCRIPTION

FIG. 1 is a front plan view of our new design for a combined stator and spindle for a ducted rotor;
 FIG. 2 is a side view in elevation of the stator and spindle as shown in FIG. 1;
 FIG. 3 is a top plan view of the stator and spindle as shown in FIG. 1;
 FIG. 4 is a front elevational view of the stator and spindle as shown in FIG. 1;
 FIG. 5 is a bottom plan view of the stator and spindle as shown in FIG. 1;
 FIG. 6 is a rear elevational view of the stator and spindle as shown in FIG. 1;
 FIG. 7 is a front environmental perspective view of the stator and spindle as shown in FIG. 1; and,
 FIG. 8 is a rear environmental perspective view of the stator and spindle as shown in FIG. 1.
 The broken lines FIGS. 7 and 8 of the drawings are for the purpose of illustrating environmental structure and form no part of the claimed design.

1 Claim, 8 Drawing Sheets



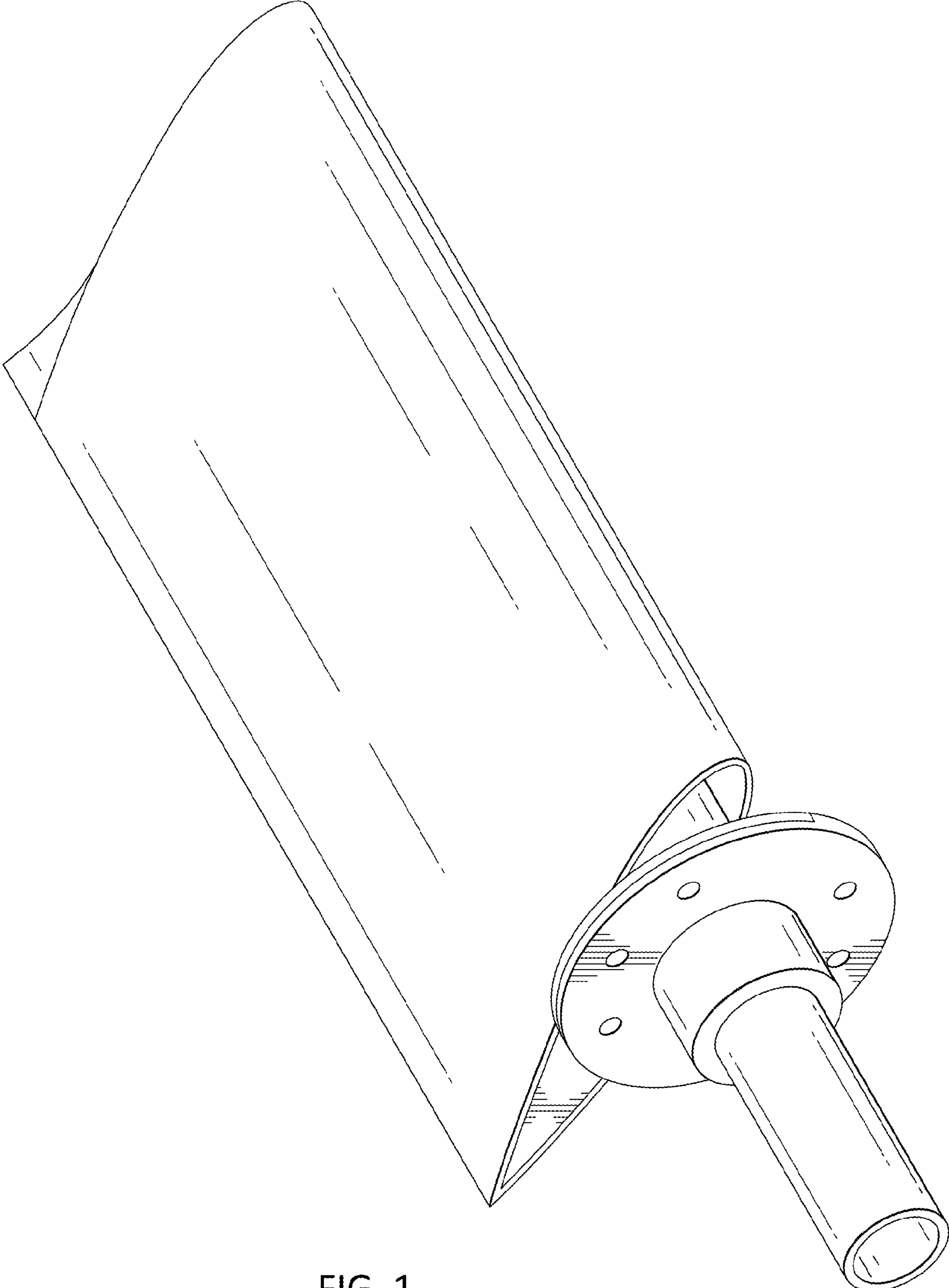


FIG. 1

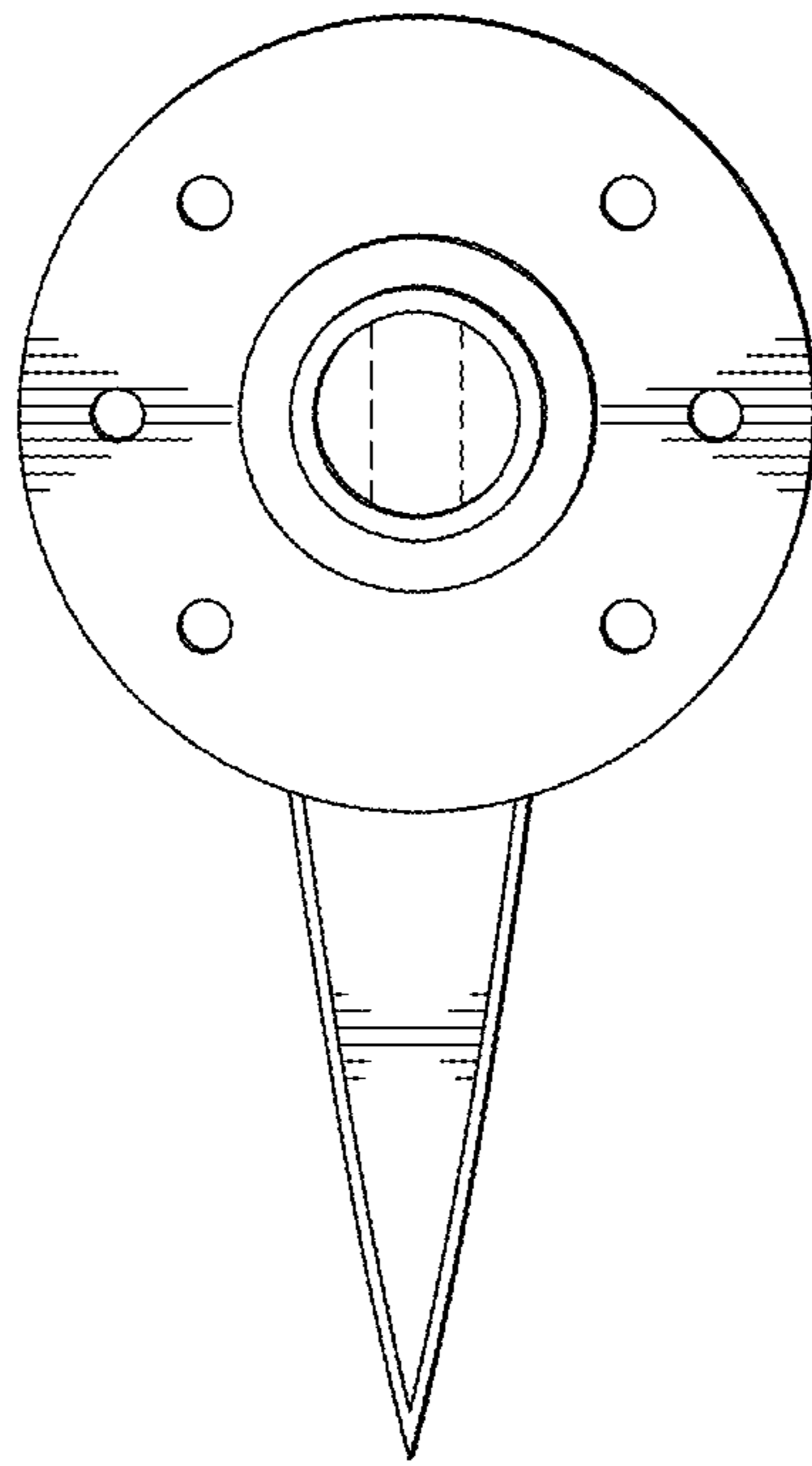


FIG. 2

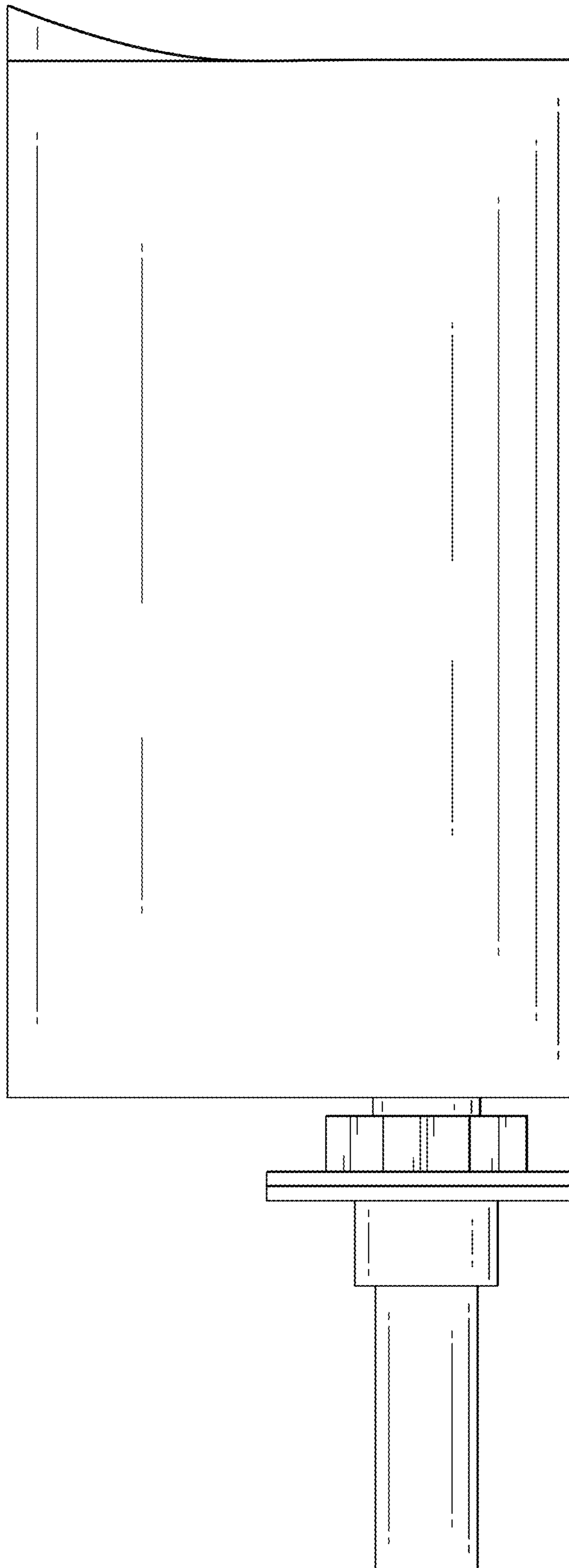


FIG. 3

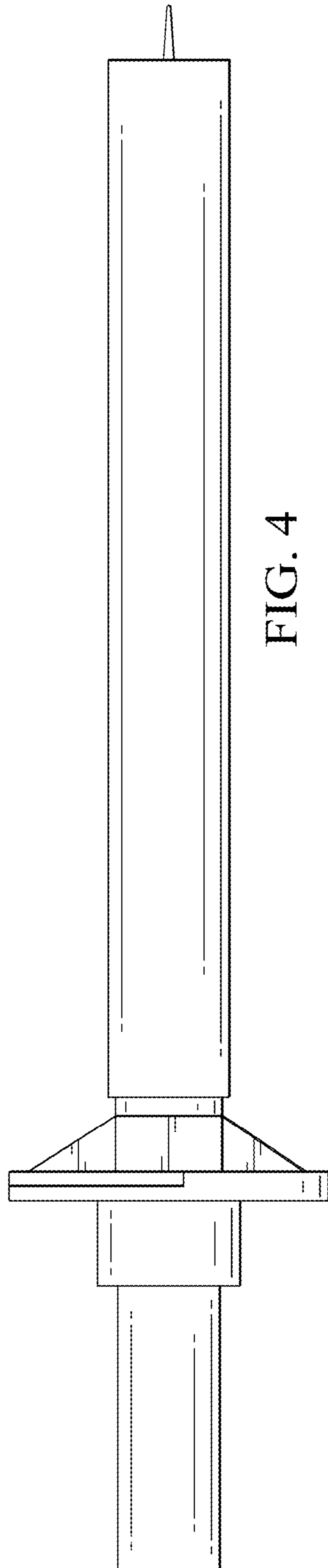


FIG. 4

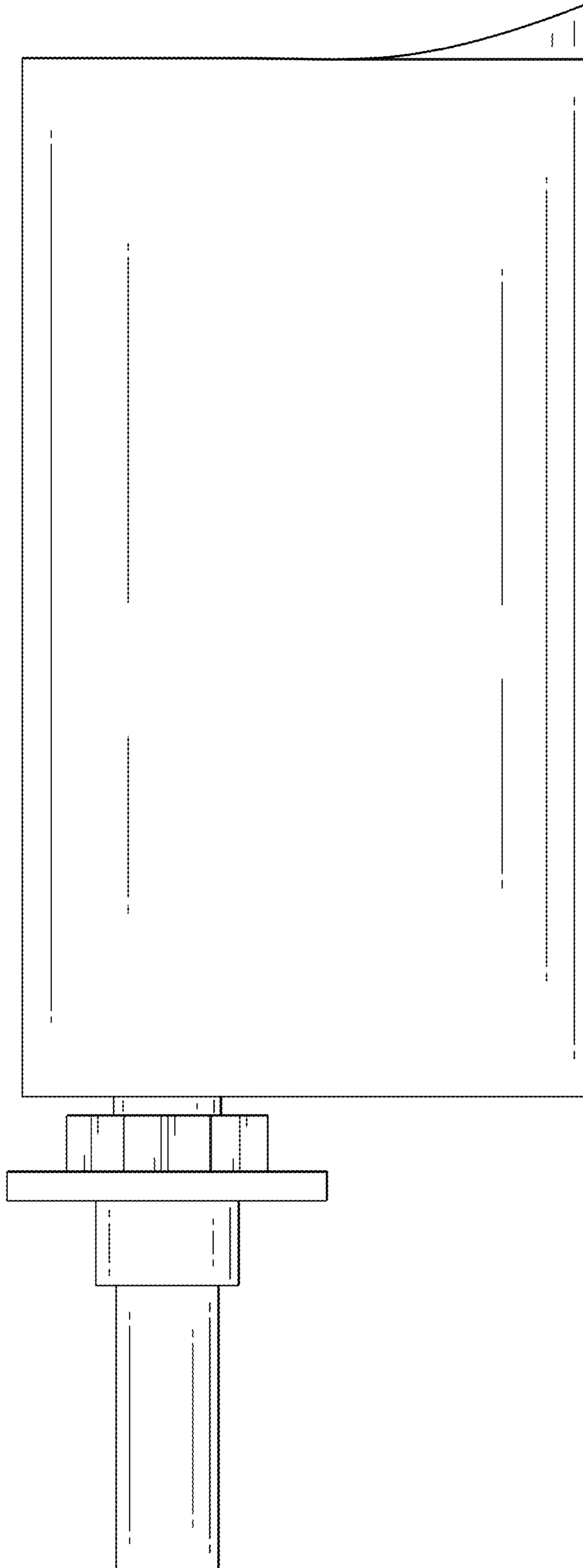


FIG. 5

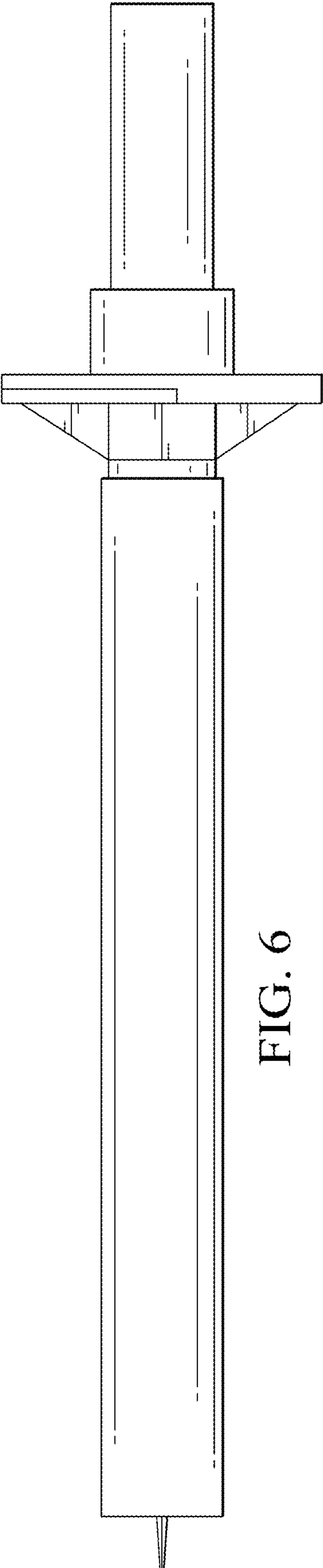


FIG. 6

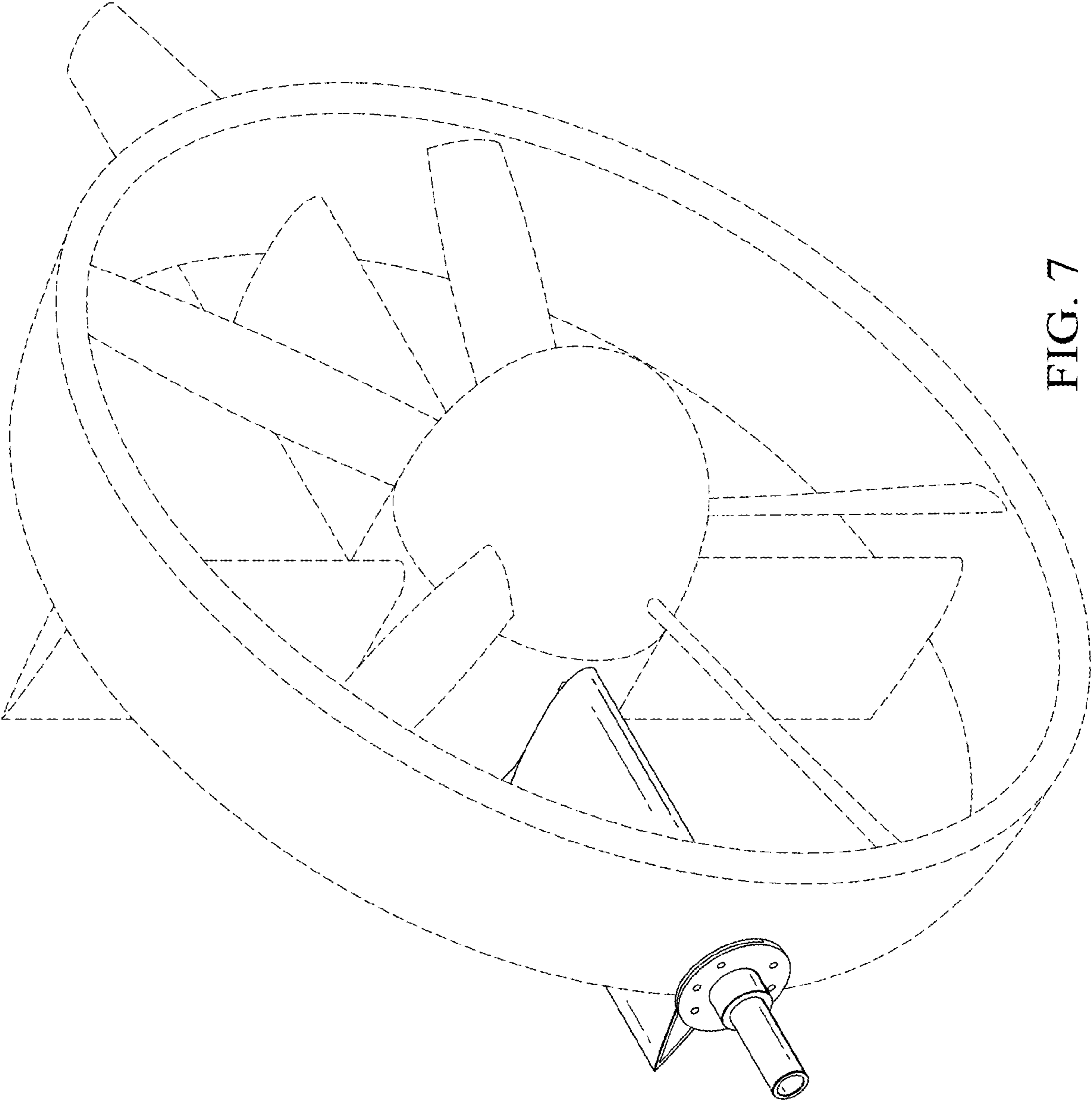


FIG. 7

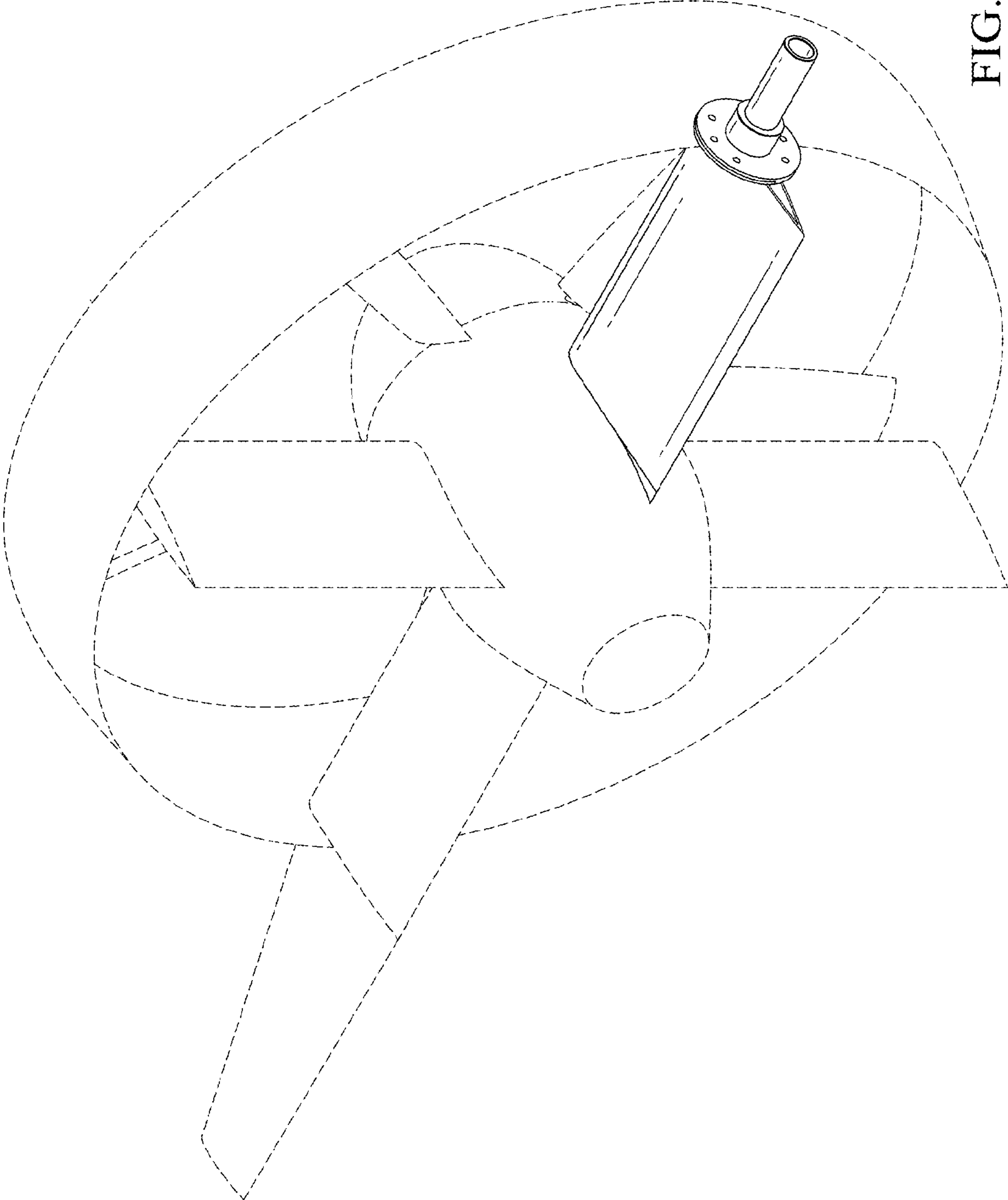


FIG. 8