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(12) **United States Design Patent** (10) **Patent No.:** **US D807,597 S**
Antal et al. (45) **Date of Patent:** **** Jan. 9, 2018**

- (54) **DART HAVING BLADES FOR CLEANING TUBES**
- (71) Applicant: **National Heat Exchange Cleaning Corporation**, Youngstown, OH (US)
- (72) Inventors: **Brian D. Antal**, Fombell, PA (US); **Carroll E. Joseph**, Leetonia, OH (US)
- (73) Assignee: **National Heat Exchange Cleaning Corporation**, Youngstown, OH (US)
- (**) Term: **14 Years**
- (21) Appl. No.: **29/516,588**
- (22) Filed: **Feb. 4, 2015**
- (51) **LOC (11) Cl.** **15-05**
- (52) **U.S. Cl.**
USPC **D32/14**
- (58) **Field of Classification Search**
USPC D32/14, 25, 35
CPC ... B08B 9/0557; B08B 9/0553; B08B 9/0436; B08B 9/0555; G01W 1/14; F28G 1/12; F28G 1/08; F41A 29/02
See application file for complete search history.

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Primary Examiner — Michael A. Pratt
Assistant Examiner — Michelle E Wilson
(74) *Attorney, Agent, or Firm* — The Webb Law Firm

(57) **CLAIM**

The ornamental design for a dart having blades for cleaning tubes, as shown and described.

DESCRIPTION

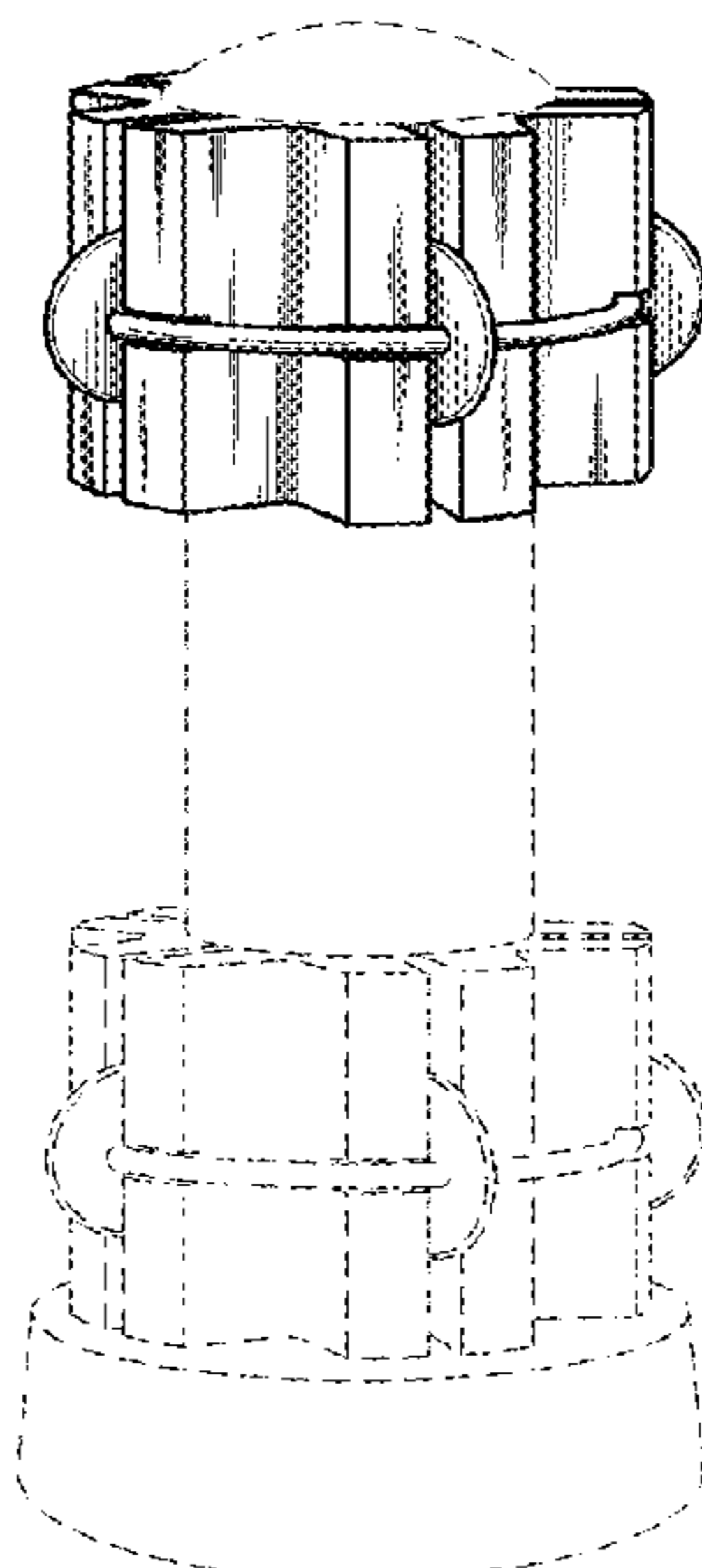
FIG. 1 is a front view of a dart having blades for cleaning tubes showing our new design in accordance with one embodiment of the present invention;
FIG. 2 is a rear view thereof;
FIG. 3 is a right side view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a bottom view thereof; and,
FIG. 7 is an upper left bottom perspective view thereof.
The broken line shown in the drawings are included for the purpose of illustrating portions of the dart that form no part of the claimed design.

1 Claim, 2 Drawing Sheets

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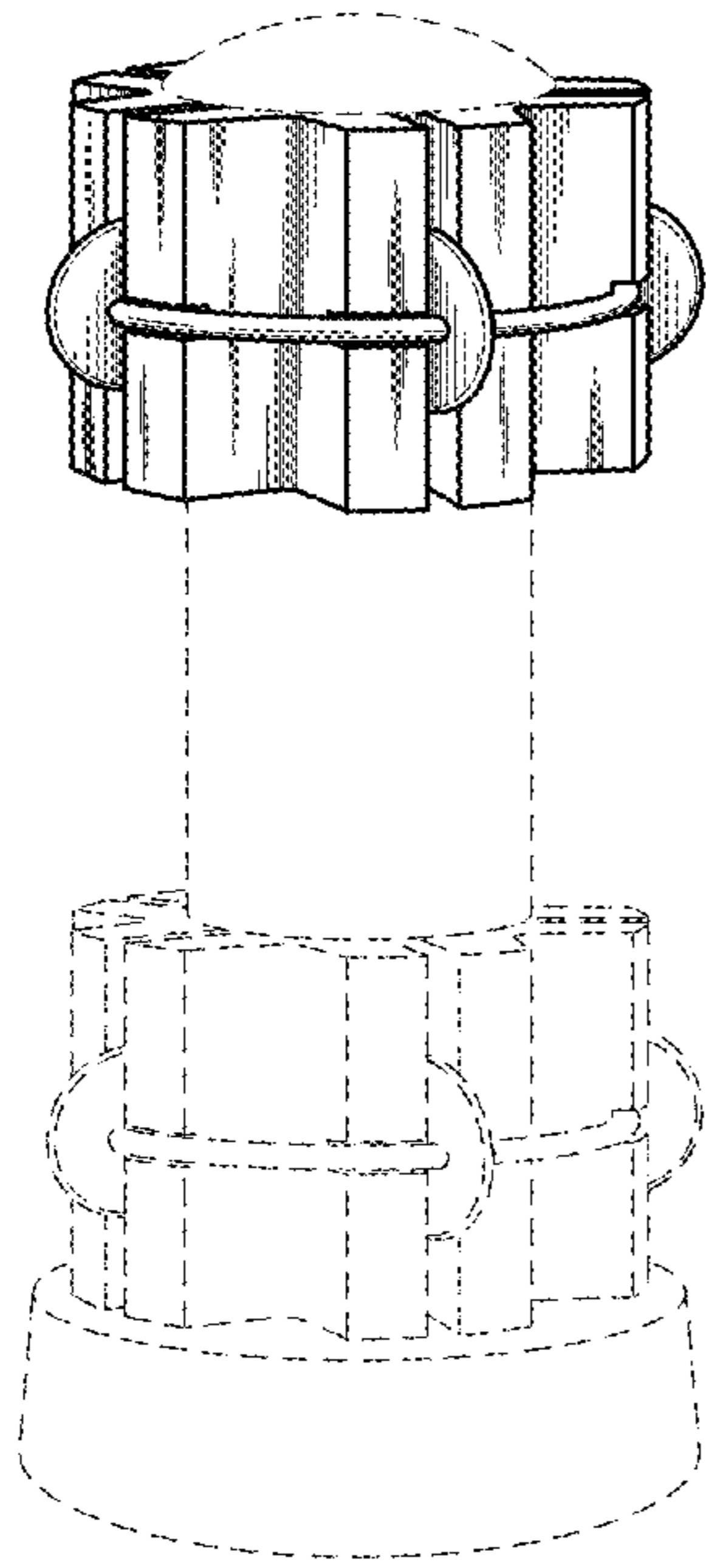


FIG. 1

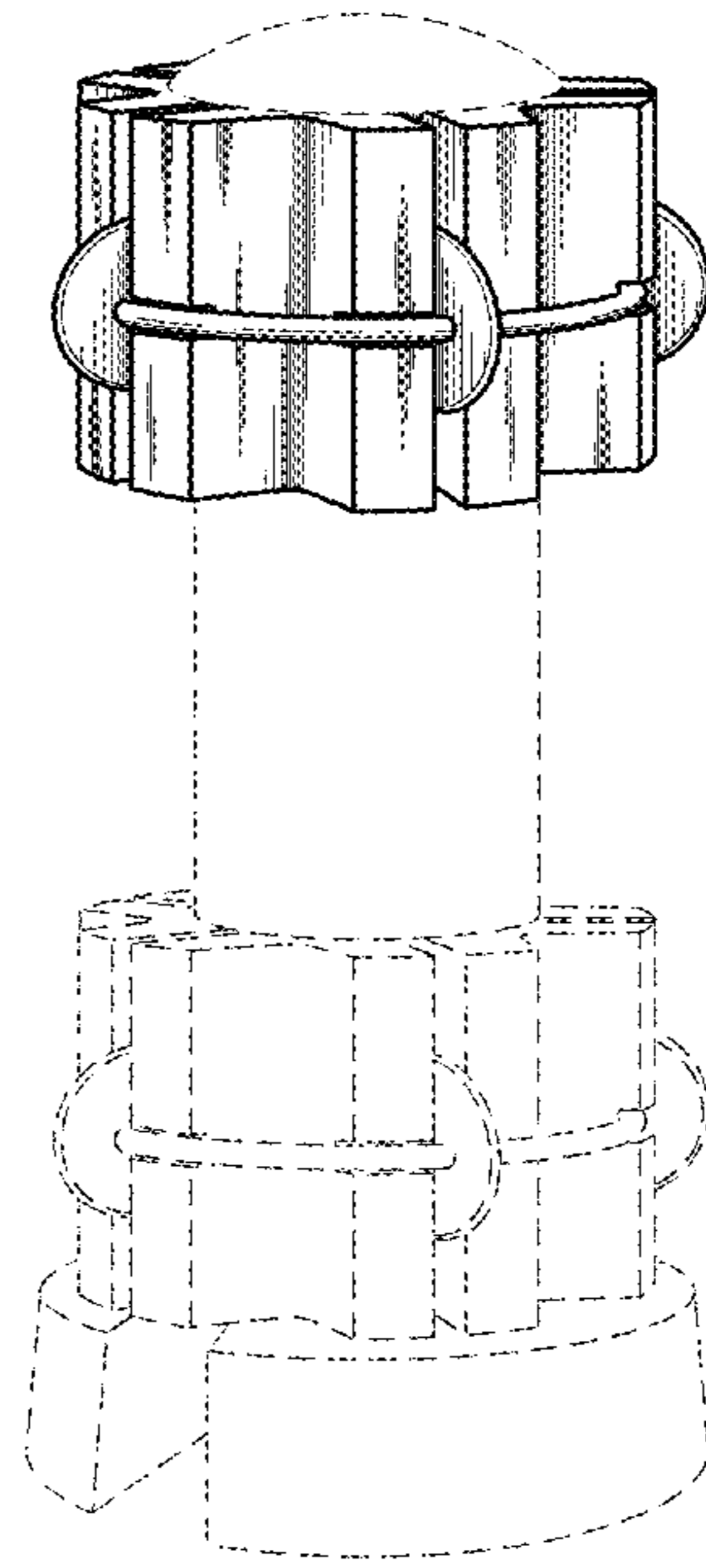


FIG. 2

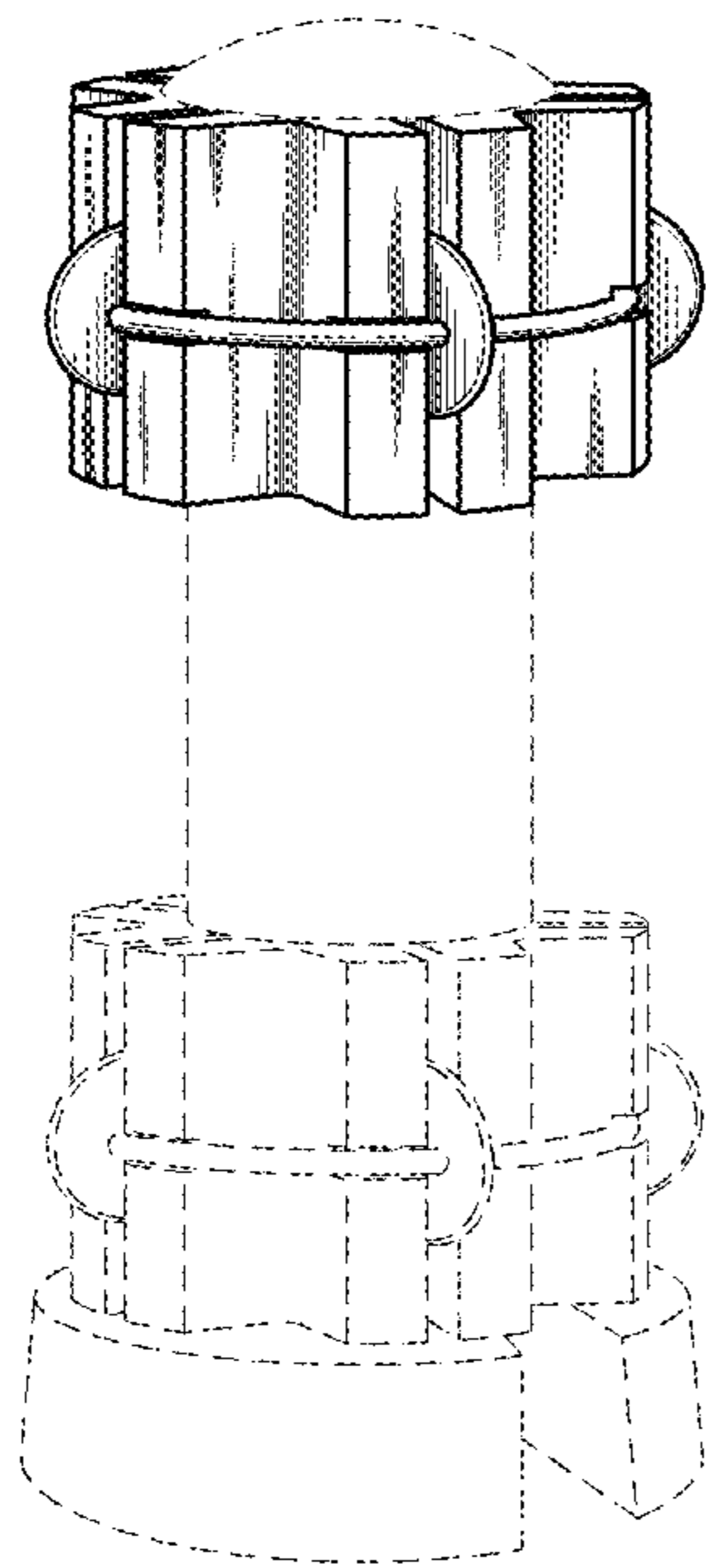


FIG. 3

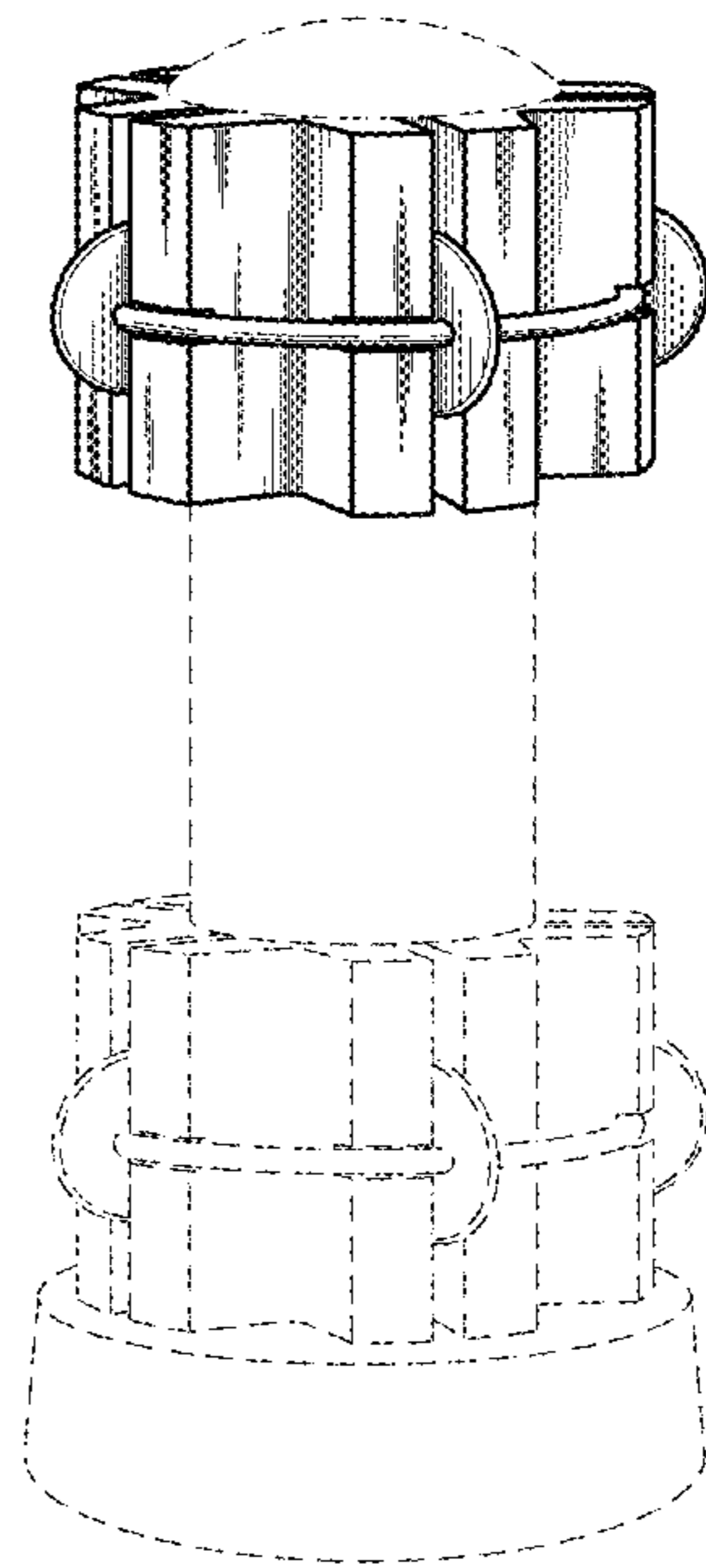


FIG. 4

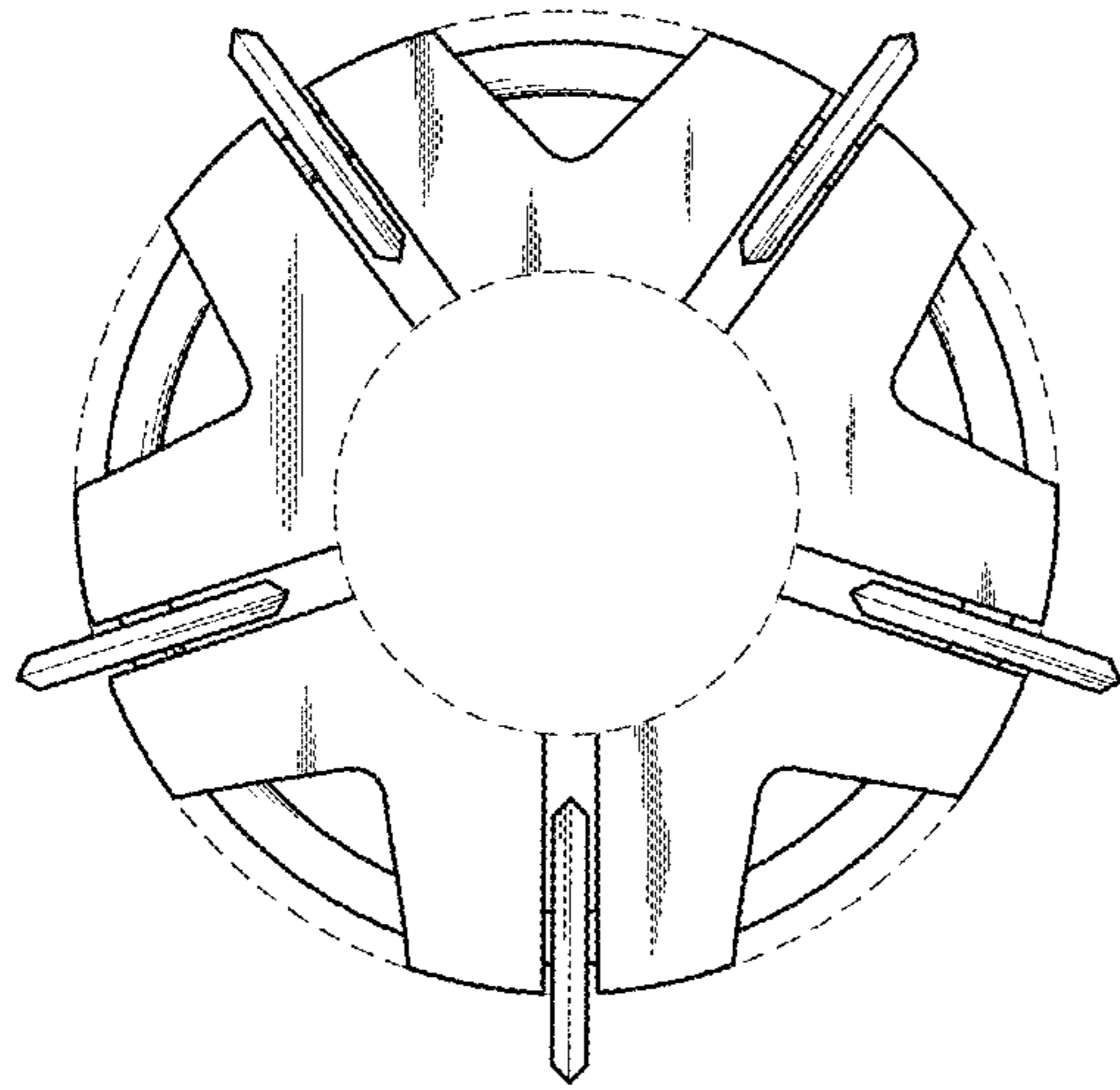


FIG. 5

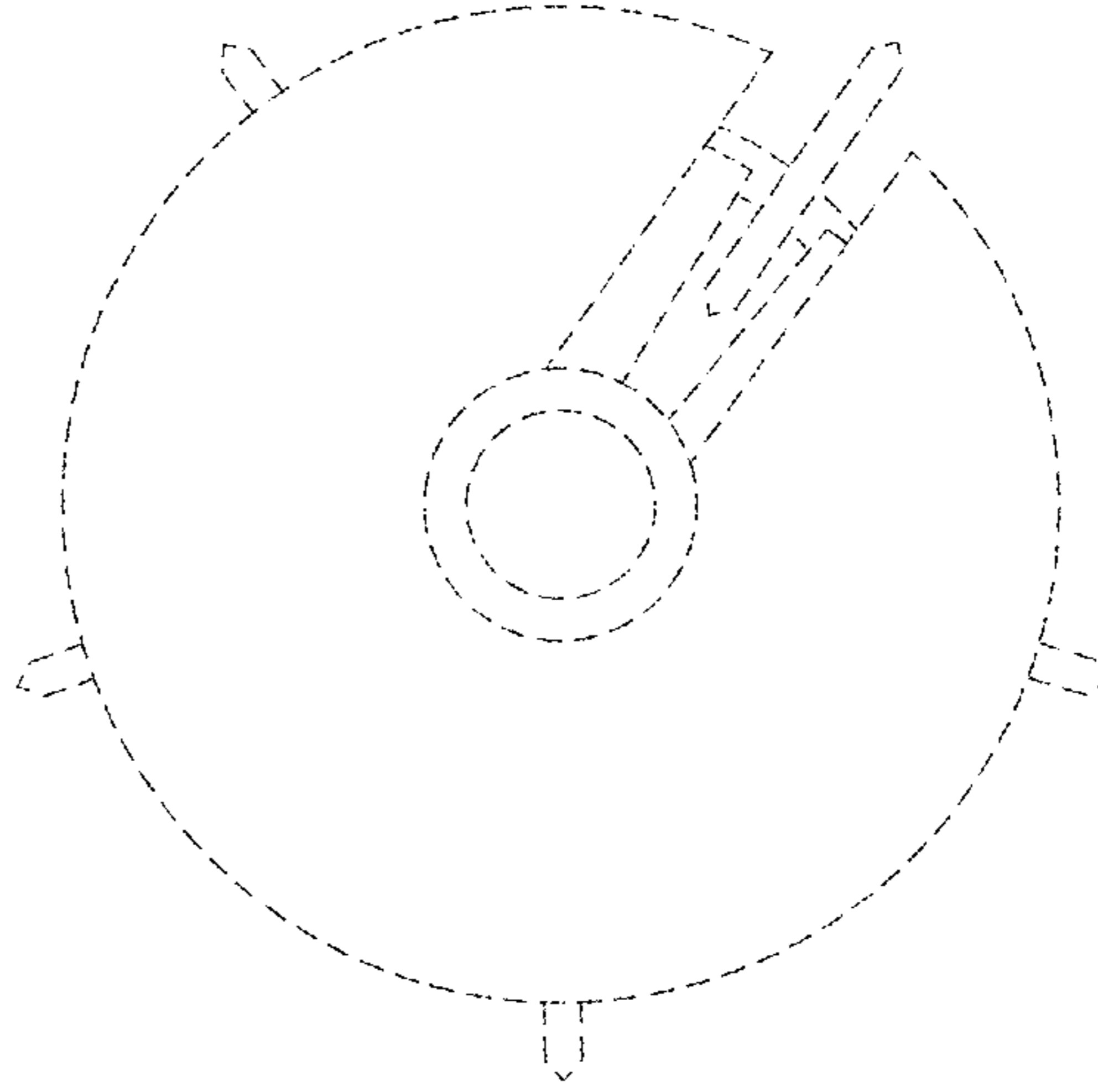


FIG. 6

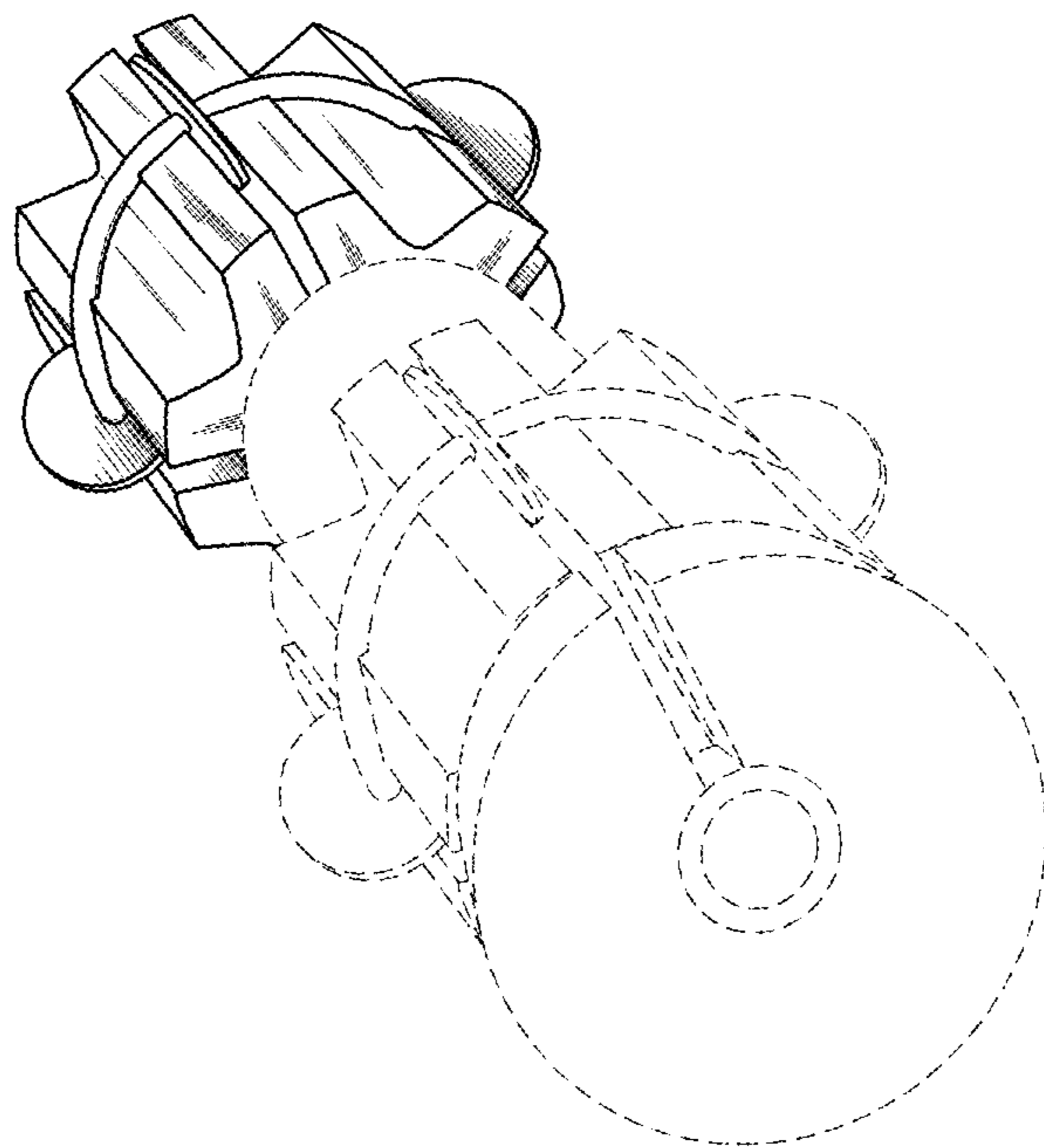


FIG. 7