



US00D948201S

(12) **United States Design Patent**
Wang

(10) **Patent No.:** **US D948,201 S**
(45) **Date of Patent:** **** Apr. 12, 2022**

(54) **CRANK HANDLE DEVICE OF SUN UMBRELLA**

(71) Applicant: **Linhai Guokang Leisure Products Co., Ltd., Zhejiang (CN)**

(72) Inventor: **Ziguo Wang, Zhejiang (CN)**

(73) Assignee: **Linhai Guokang Leisure Products Co., Ltd.**

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

(21) Appl. No.: **29/733,963**

(22) Filed: **May 7, 2020**

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

(52) **U.S. Cl.**
USPC **D3/10**

(58) **Field of Classification Search**
USPC D3/5-17; D8/303; D22/137-142
CPC A45B 3/02; A45B 3/04; A45B 9/02; A45B 11/00; A45B 15/00; A45B 17/00; A45B 19/00; A45B 19/04; A45B 19/08; A45B 19/10; A45B 21/00; A45B 2200/1081; A45B 23/00; A45B 2023/0012; A45B 2023/005; A45B 2023/0037; A45B 2023/0043; A45B 2023/0056; A45B 2023/0068; A45B 2023/0075; A45B 25/00; A45B 25/02; A45B 25/06; A45B 25/08; A45B 25/10; A45B 25/14; A45B 25/18; A45B 25/20; A45B 25/22; A45B 25/143; A45B 2025/003

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,661,752 A * 12/1953 Kampf A45B 25/14
135/20.3
4,619,281 A * 10/1986 Redl A45B 25/14
135/20.3

4,878,509 A * 11/1989 Tung A45B 17/00
135/20.3
5,437,297 A * 8/1995 Crisman A45B 25/14
135/20.1
D411,655 S * 6/1999 Tung D3/10
D668,445 S * 10/2012 Patzak D3/10
D826,543 S * 8/2018 Ma D3/5

(Continued)

FOREIGN PATENT DOCUMENTS

CN 303783861 * 8/2016
CN 305462569 * 11/2019
EM 007955034-0001 * 8/2020

OTHER PUBLICATIONS

9' Round Tilt Silver Outdoor Patio Umbrella Frame, unknown first available date, crateandbarrel.com [online], [site visited Nov. 9, 2021], Available at URL: <https://www.crateandbarrel.com/9-round-tilt-silver-outdoor-patio-umbrella-frame/s580395> (Year: 2021).*

Primary Examiner — Jeffrey D Asch
Assistant Examiner — Caitlin A Laverty

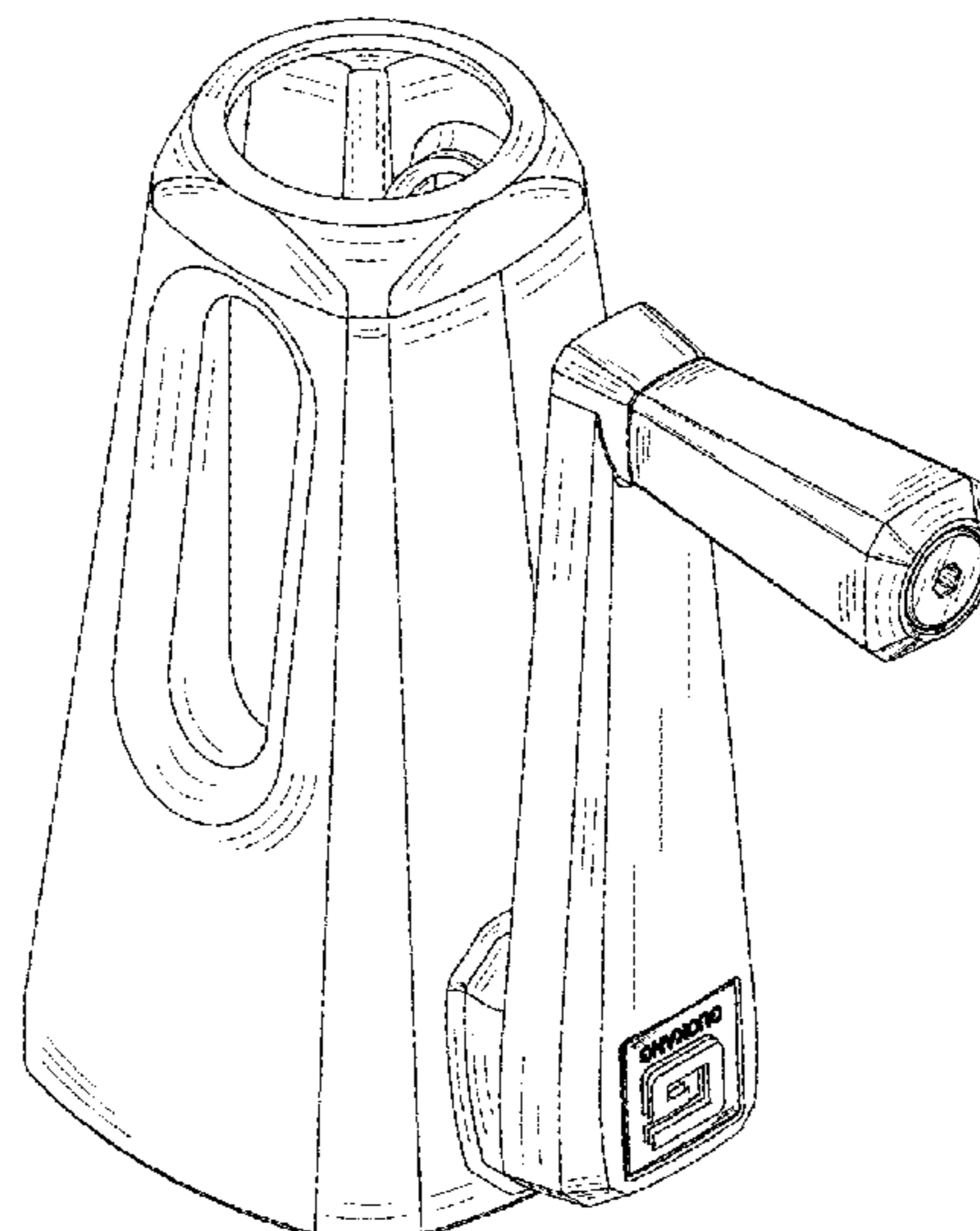
(57) **CLAIM**

The ornamental design for a crank handle device of sun umbrella, as shown and described.

DESCRIPTION

FIG. 1 is a front view of the crank handle device of sun umbrella showing my new design;
FIG. 2 is a back view thereof;
FIG. 3 is a left side view thereof;
FIG. 4 is a right side view thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a bottom view thereof;
FIG. 7 is a perspective view thereof; and,
FIG. 8 is another perspective view thereof.
The “G Guokang” logo forming part of the disclosure is a registered trademark of Linhai Guokang Leisure Products Co., Ltd.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D828,995 S * 9/2018 Ma D3/10
11,206,903 B2 * 12/2021 Ma A45B 17/00

* cited by examiner

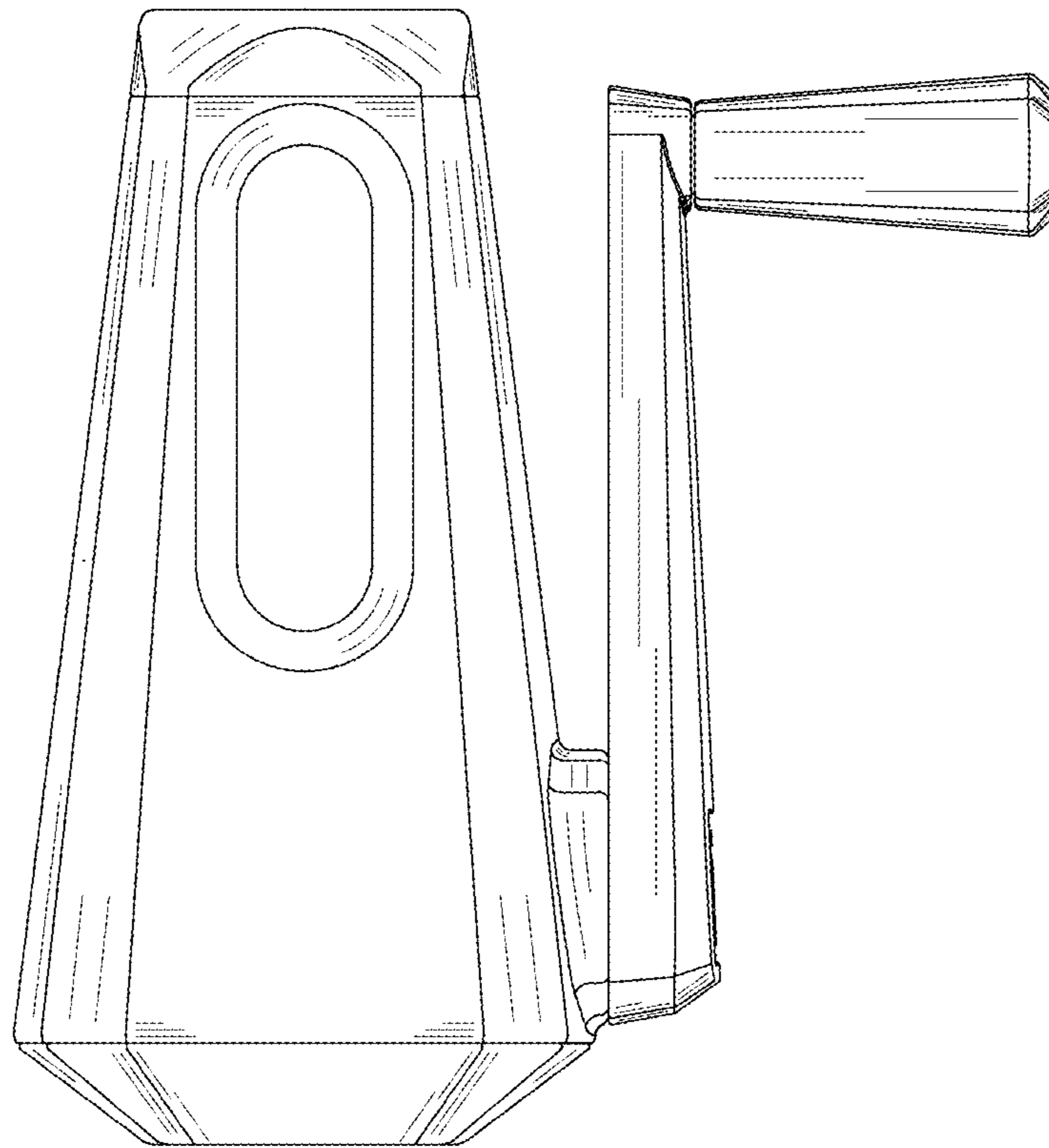


FIG. 1

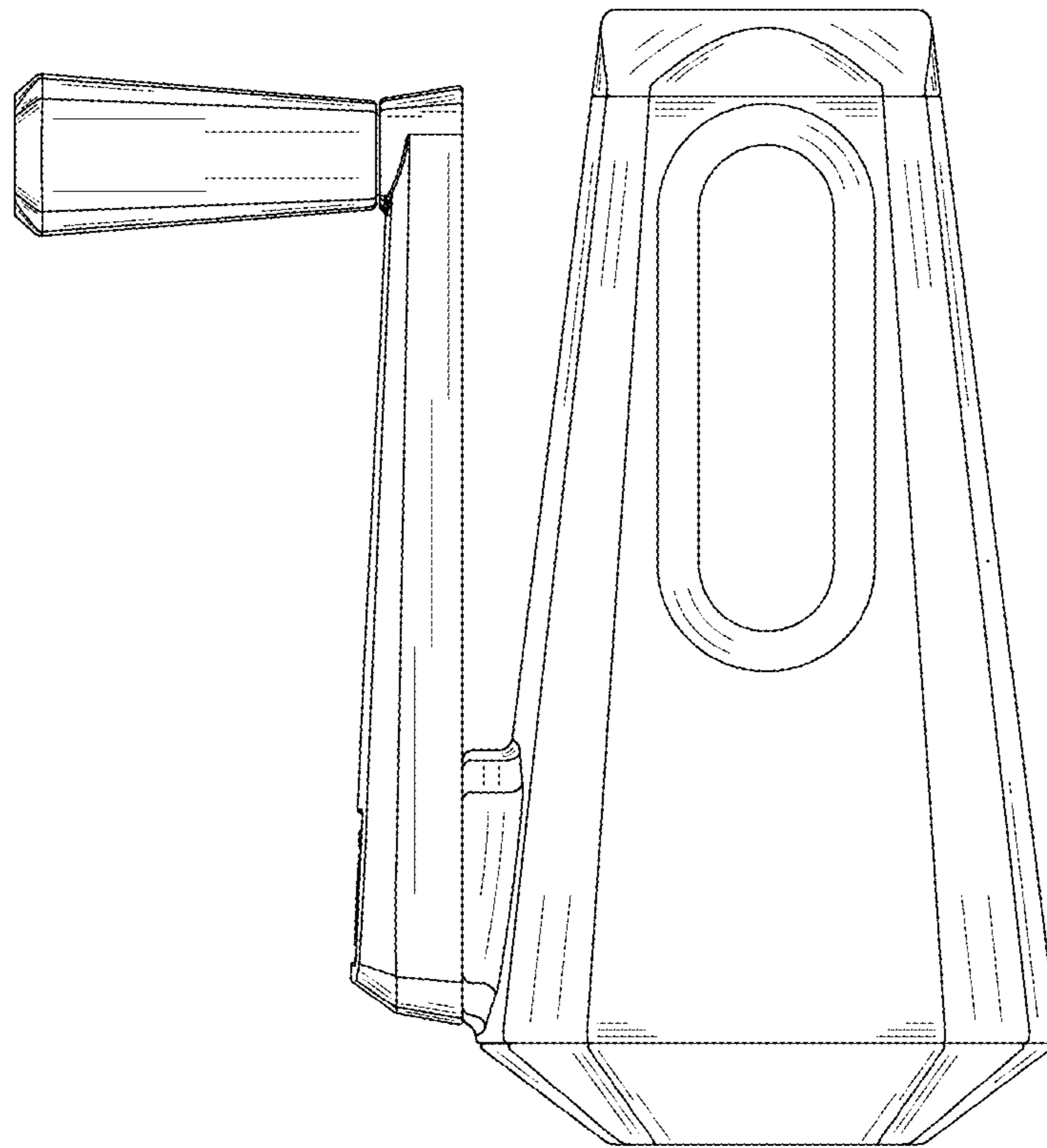


FIG. 2

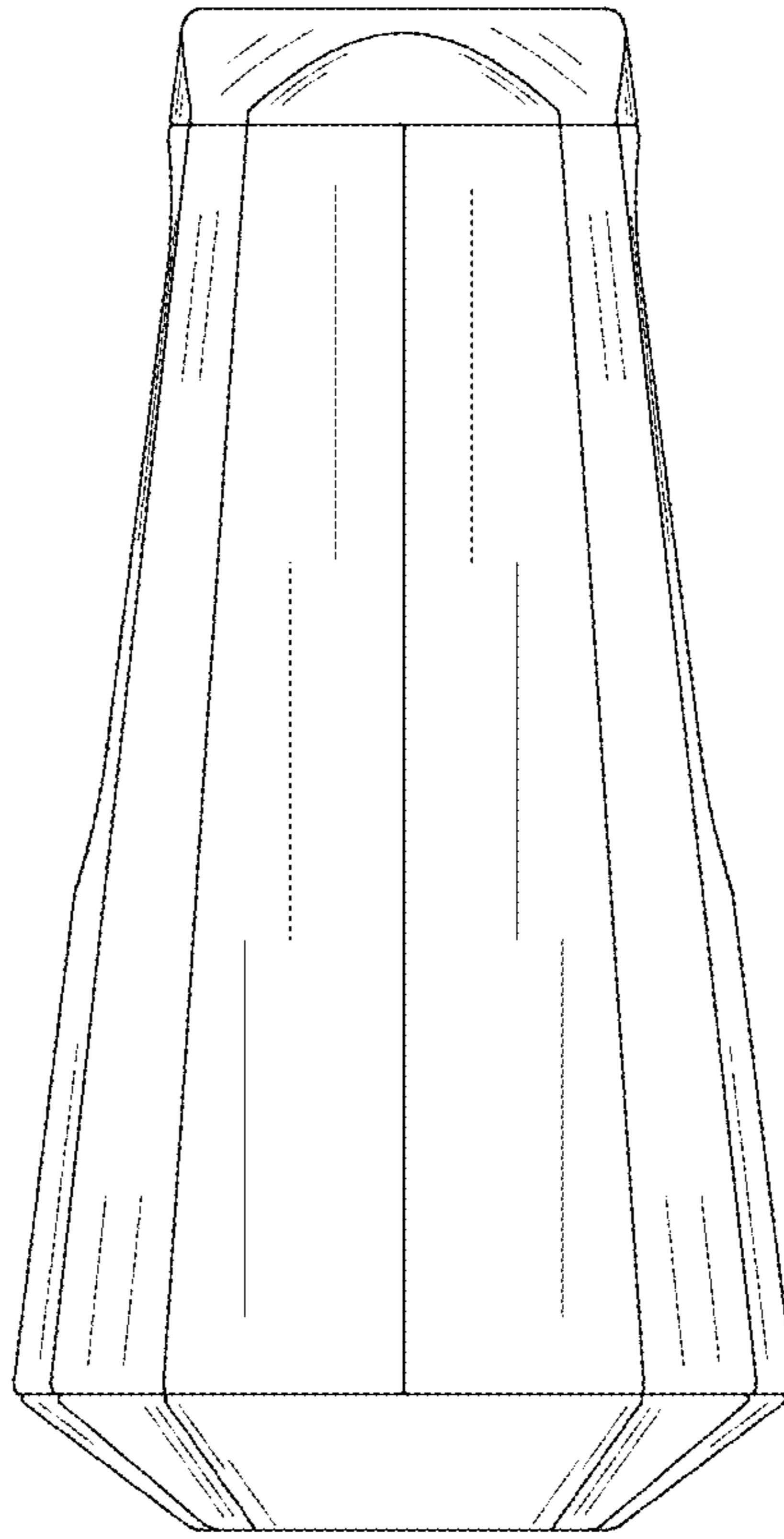


FIG. 3

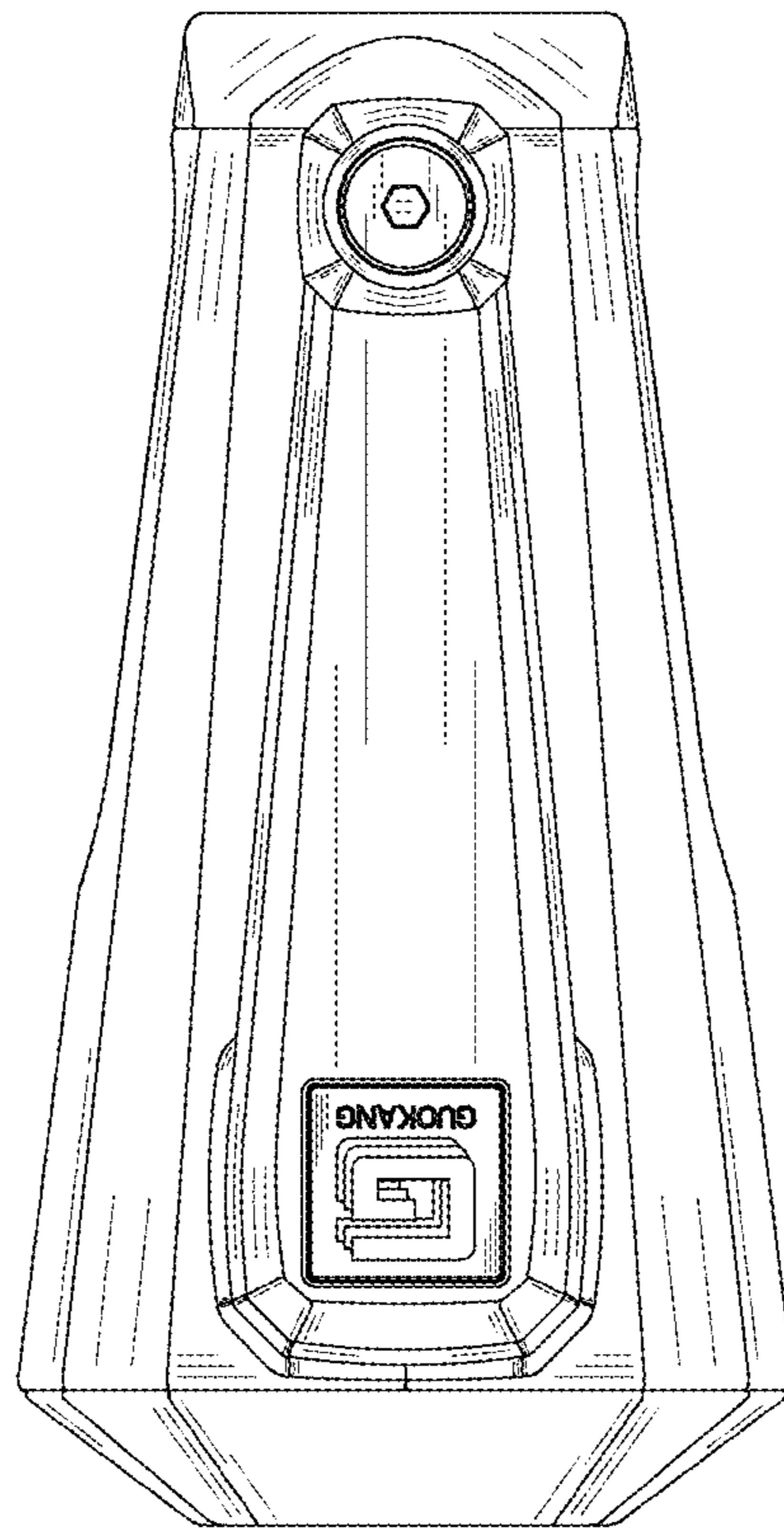


FIG. 4

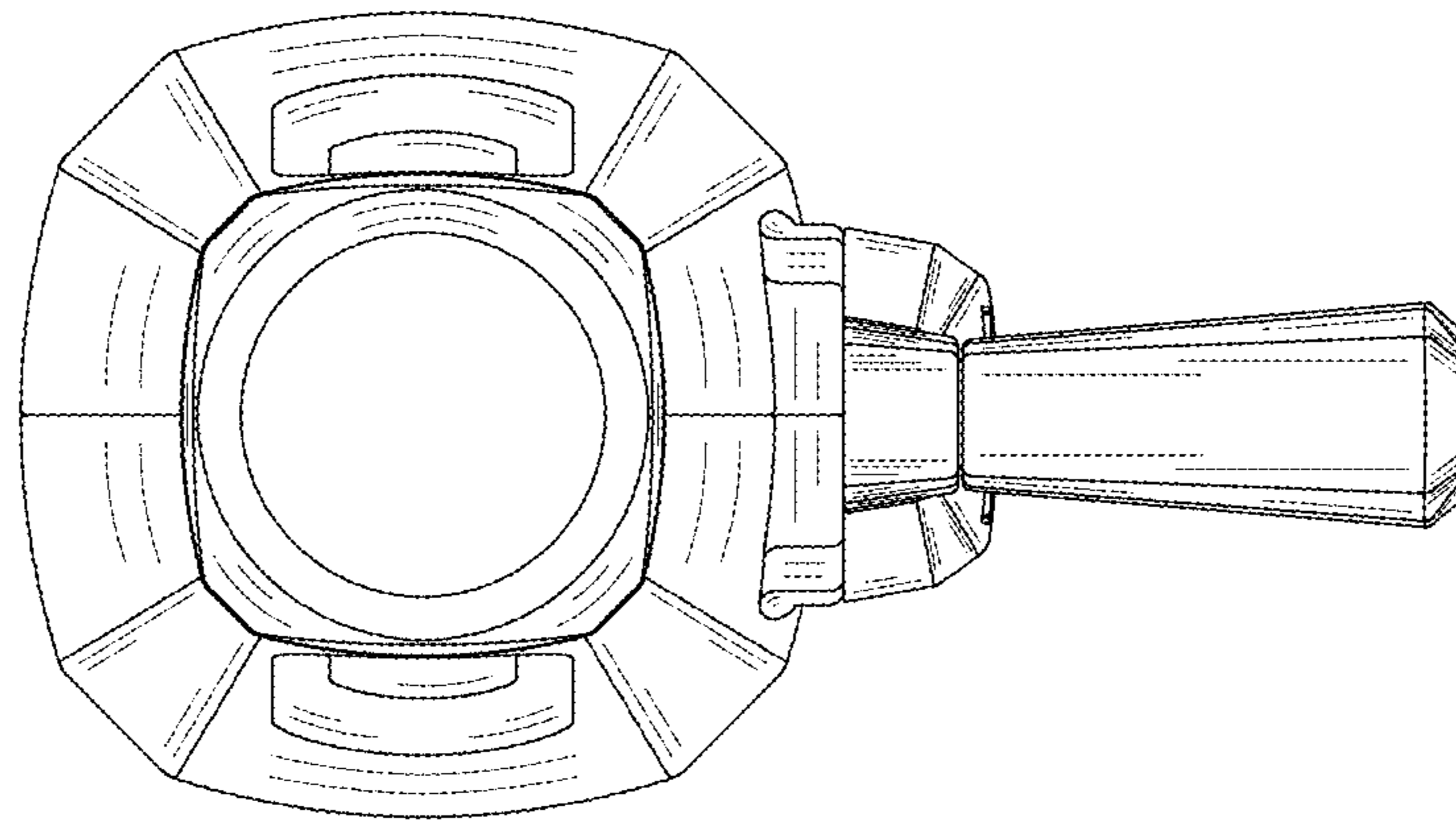


FIG. 5

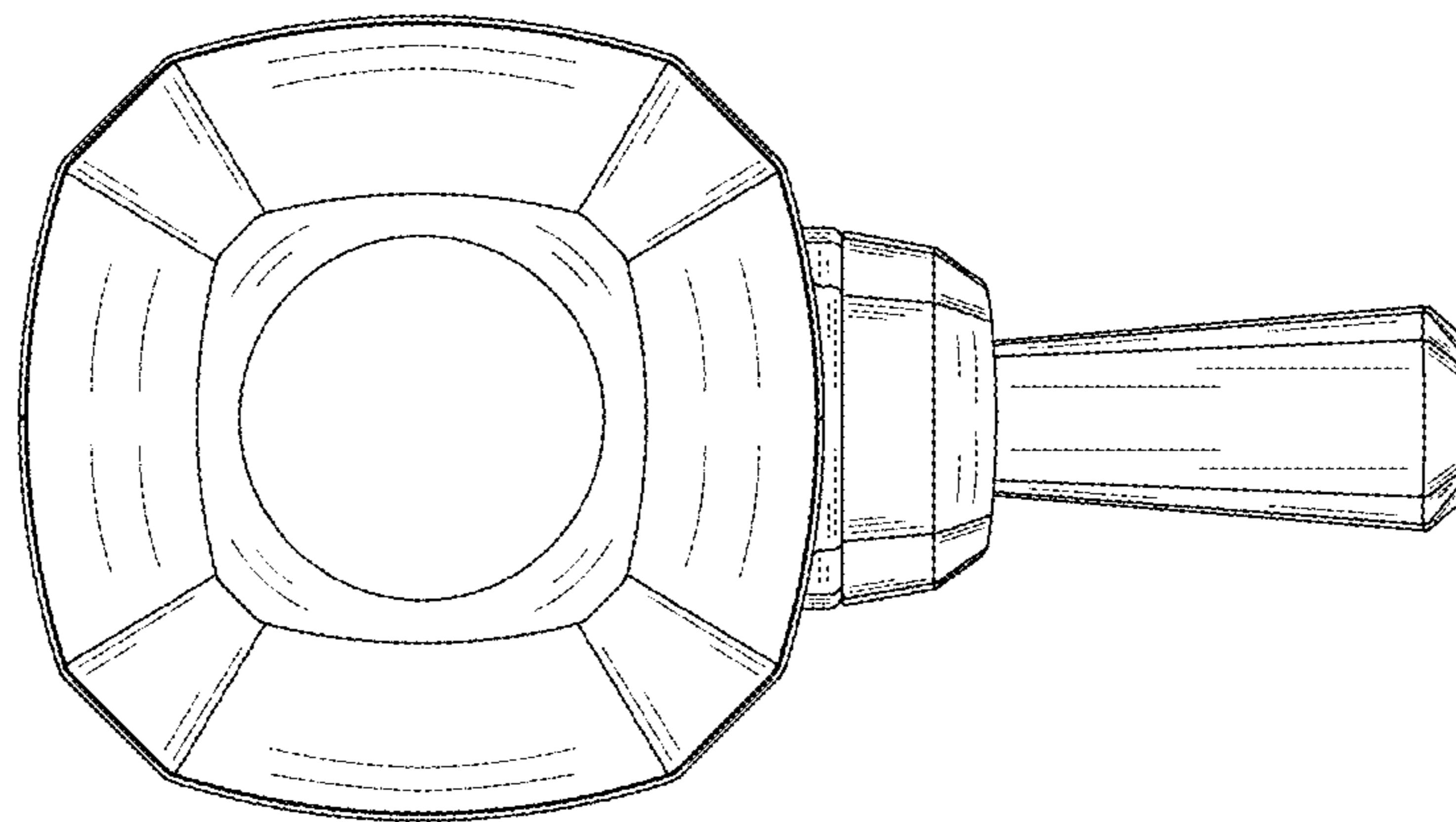


FIG. 6

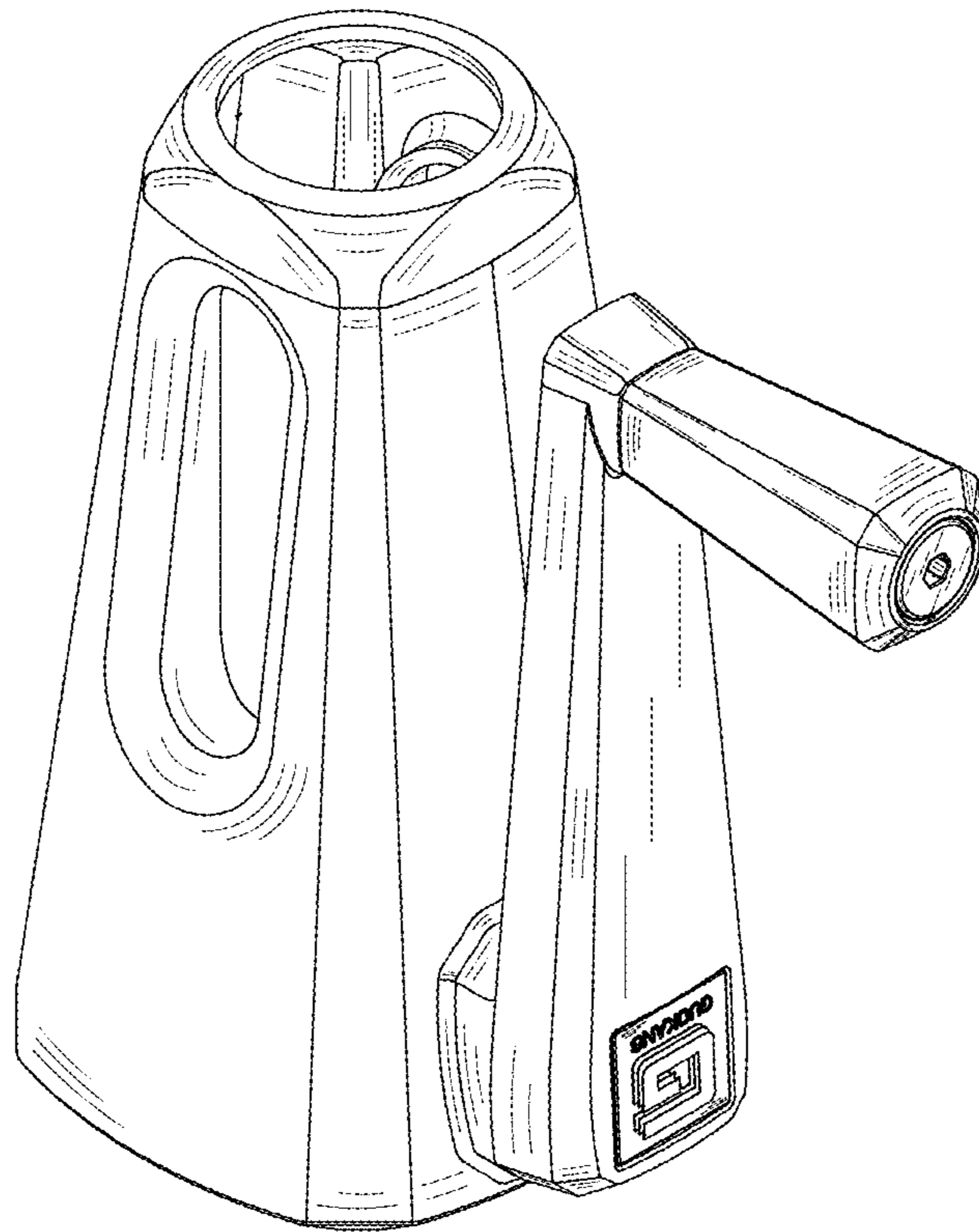


FIG. 7

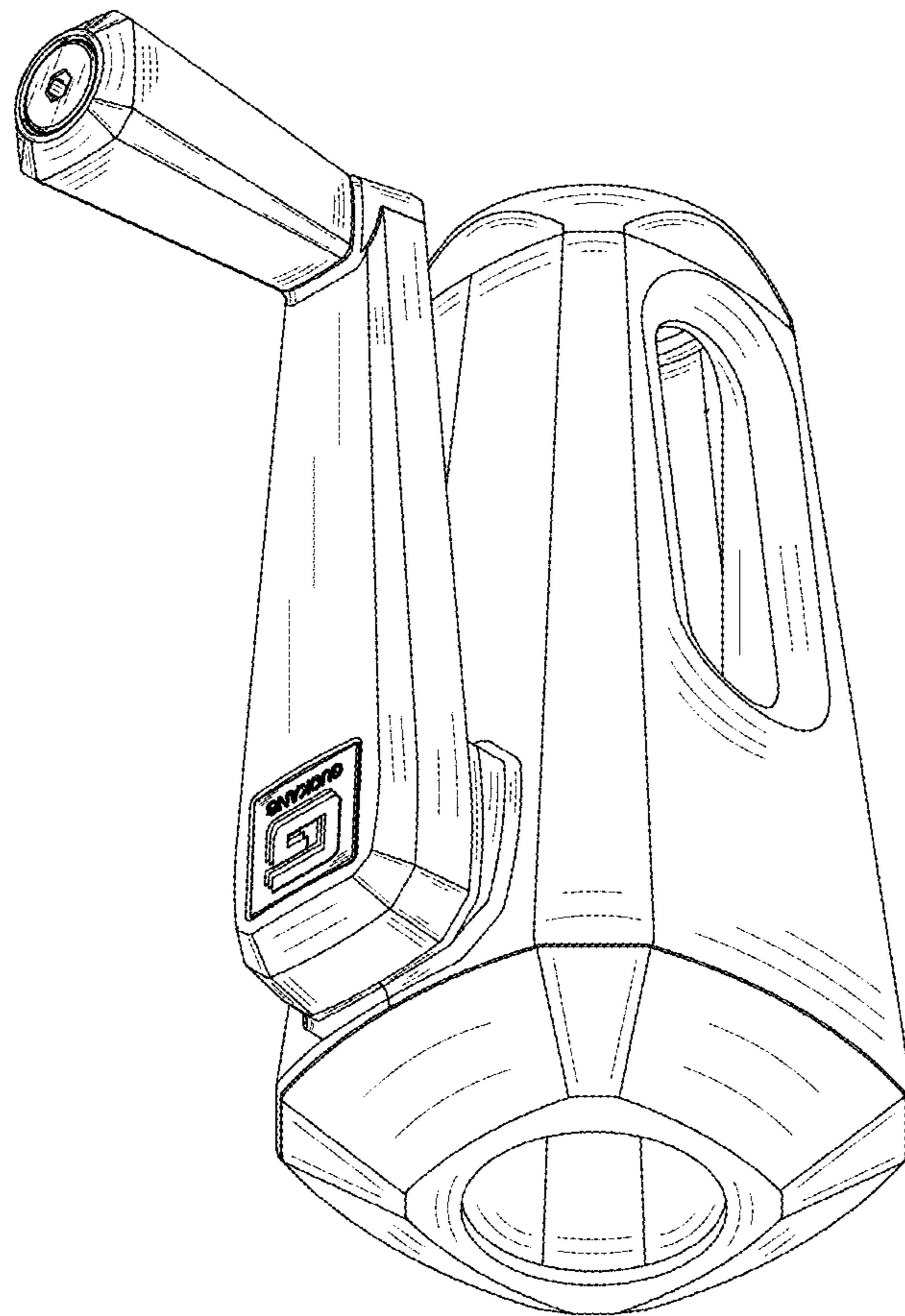


FIG. 8