

US00D852231S

(12) **United States Design Patent** (10) **Patent No.:** **US D852,231 S**
Larsson et al. (45) **Date of Patent:** **** Jun. 25, 2019**

(54) **SHELL FOR A DIAPHRAGM PUMP AND
MEMBRANE FOR A DIAPHRAGM PUMP**

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(73) Assignee: **MEDELA HOLDING AG**, Baar (CH)

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

(21) Appl. No.: **29/573,907**

(22) Filed: **Aug. 10, 2016**

Related U.S. Application Data

(63) Continuation of application No. 14/183,929, filed on Feb. 19, 2014, now abandoned, which is a
(Continued)

(51) **LOC (11) Cl.** **15-03**

(52) **U.S. Cl.**
USPC **D15/7**

(58) **Field of Classification Search**
USPC D15/7-9; D23/225, 231, 232
(Continued)

(56) **References Cited**

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(Continued)

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(74) *Attorney, Agent, or Firm* — Marshall, Gerstein & Borun LLP

(57) **CLAIM**

The ornamental design for a shell for a diaphragm pump and membrane for a diaphragm pump, as shown and described.

DESCRIPTION

FIG. 1 is a front, right, and bottom perspective view of a shell for a diaphragm pump of a first embodiment of the present invention;

FIG. 2 is a front view of the invention illustrated in FIG. 1; FIG. 3 is a right plan view of the invention illustrated in FIG. 1;

FIG. 4 is a top plan view of the invention illustrated in FIG. 1;

FIG. 5 is a left plan view of the invention illustrated in FIG. 1;

FIG. 6 is a rear view of the invention illustrated in FIG. 1; FIG. 7 is a bottom view of the invention illustrated in FIG. 1;

FIG. 8 is a front, right, and bottom perspective view of a shell for a diaphragm pump of a second embodiment of the present invention;

FIG. 9 is a front view of the invention illustrated in FIG. 8; FIG. 10 is a right plan view of the invention illustrated in FIG. 8;

FIG. 11 is a top plan view of the invention illustrated in FIG. 8;

FIG. 12 is a left plan view of the invention illustrated in FIG. 8;

FIG. 13 is a rear view of the invention illustrated in FIG. 8; FIG. 14 is a bottom view of the invention illustrated in FIG. 8;

FIG. 15 is a front, right, and bottom perspective view of a shell for a diaphragm pump of a third embodiment of the present invention;

FIG. 16 is a front view of the invention illustrated in FIG. 15; FIG. 17 is a right plan view of the invention illustrated in FIG. 15;

FIG. 18 is a top plan view of the invention illustrated in FIG. 15;

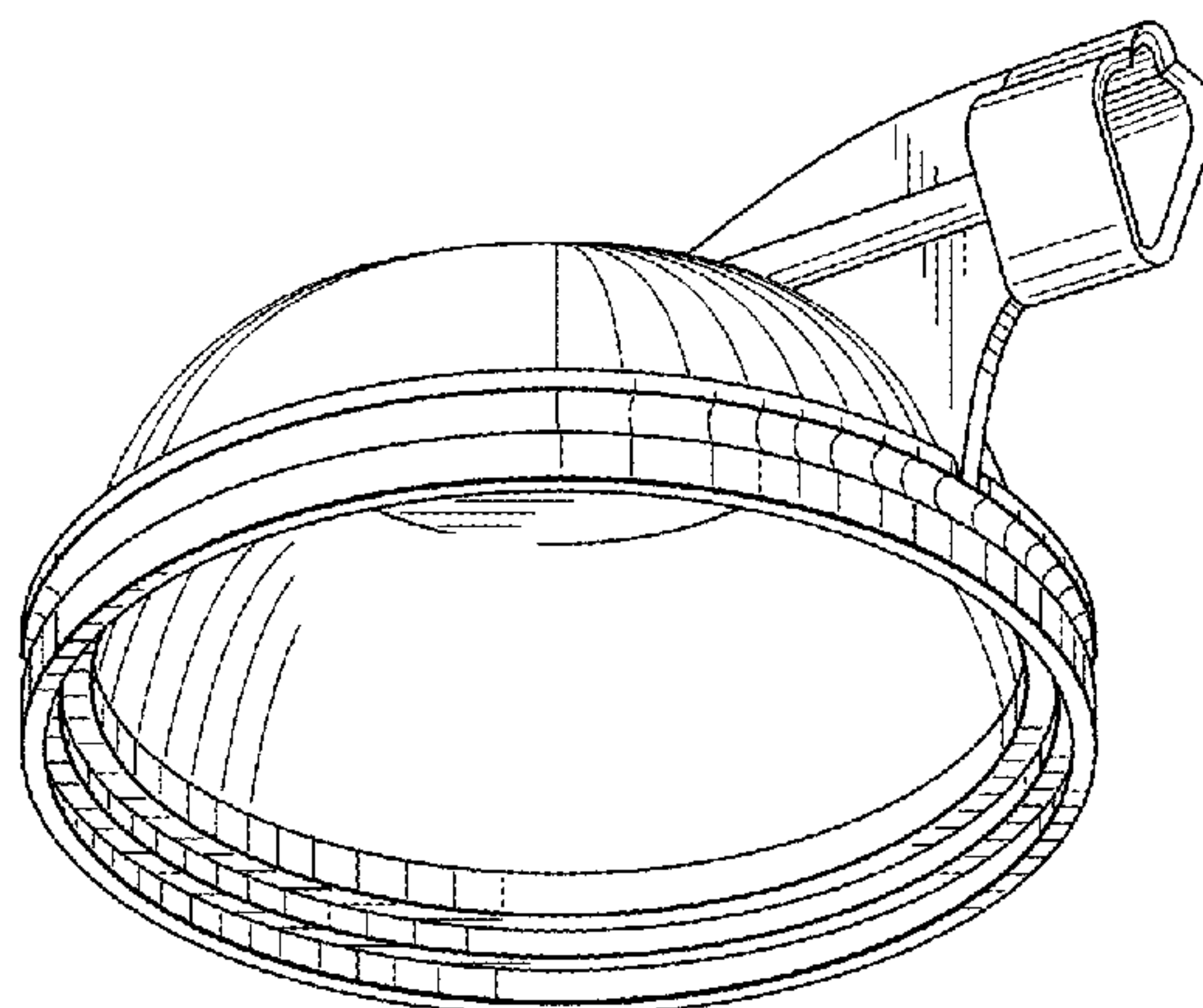
FIG. 19 is a left plan view of the invention illustrated in FIG. 15;

FIG. 20 is a rear view of the invention illustrated in FIG. 15; and,

FIG. 21 is a bottom view of the invention illustrated in FIG. 15.

The broken lines in FIGS. 8-20 of the drawings illustrate portions of the shell for a diaphragm pump and form no part of the claimed design.

1 Claim, 6 Drawing Sheets



Related U.S. Application Data

continuation of application No. 13/090,929, filed on Apr. 20, 2011, now abandoned, which is a continuation of application No. 10/413,463, filed on Apr. 14, 2003, now Pat. No. 8,282,596, which is a continuation-in-part of application No. 09/475,681, filed on Dec. 30, 1999, now Pat. No. 6,547,756.

(58) Field of Classification Search

CPC F02M 37/04; F02M 37/14; F04B 53/92;
F04B 1/005; F04D 13/06; F04D 29/22;
F04D 29/046; F04D 29/2266

See application file for complete search history.

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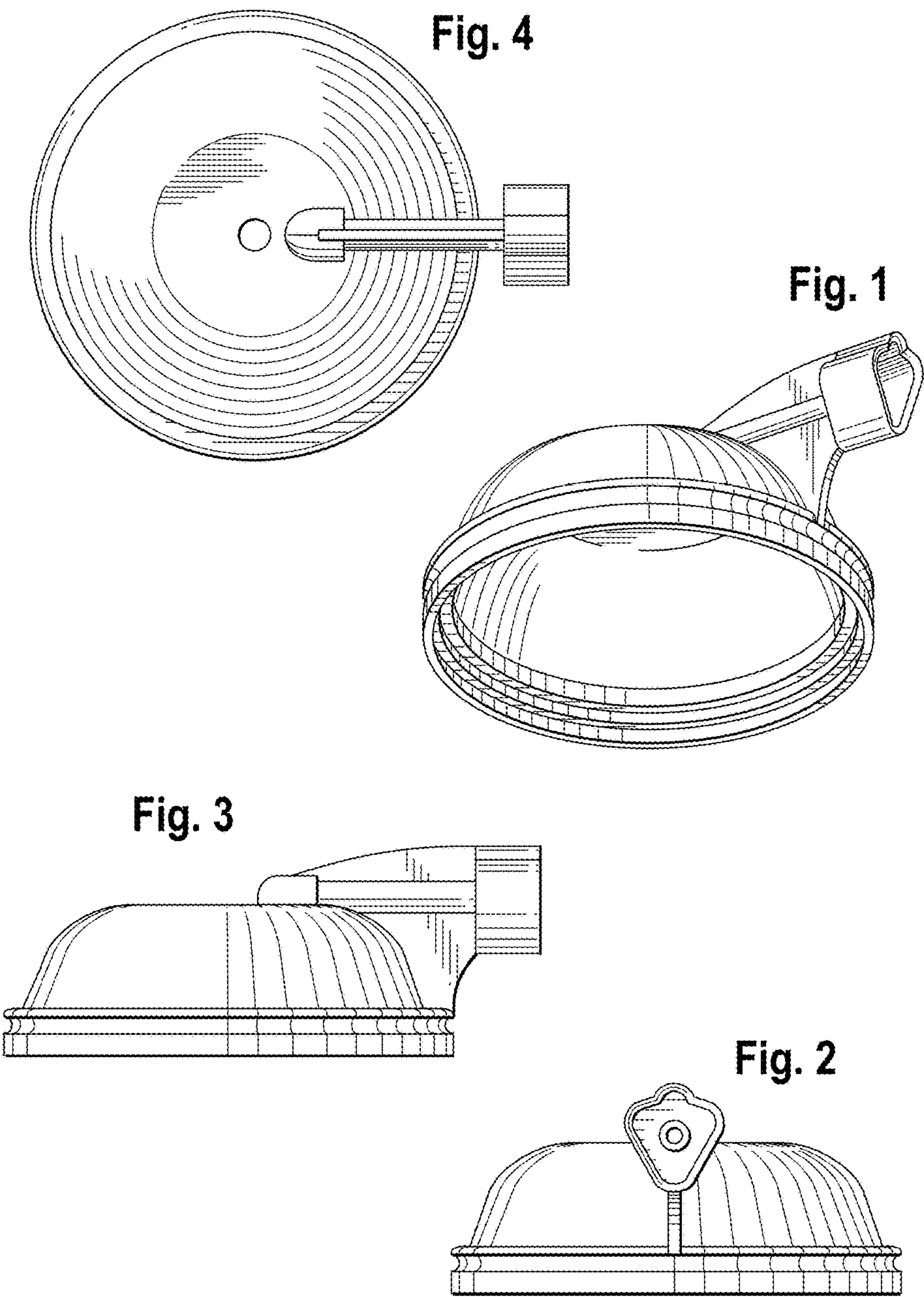


Fig. 5

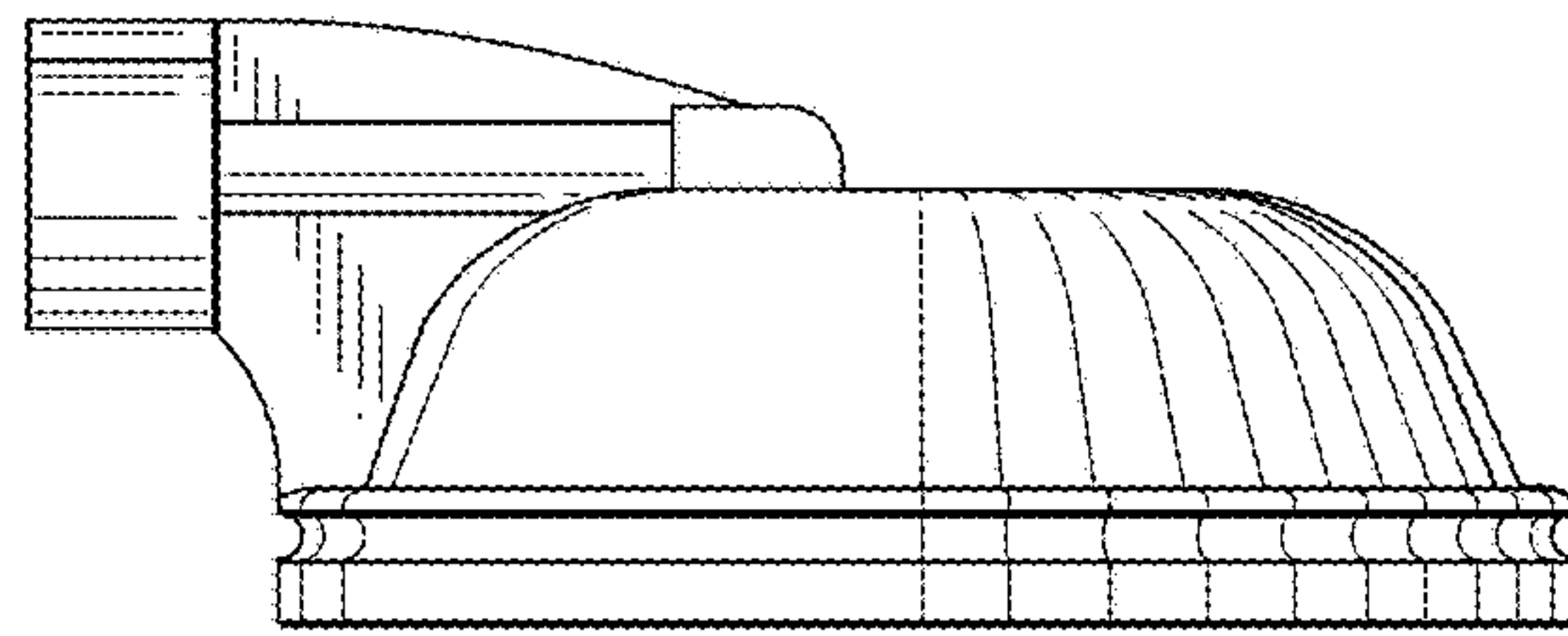


Fig. 6

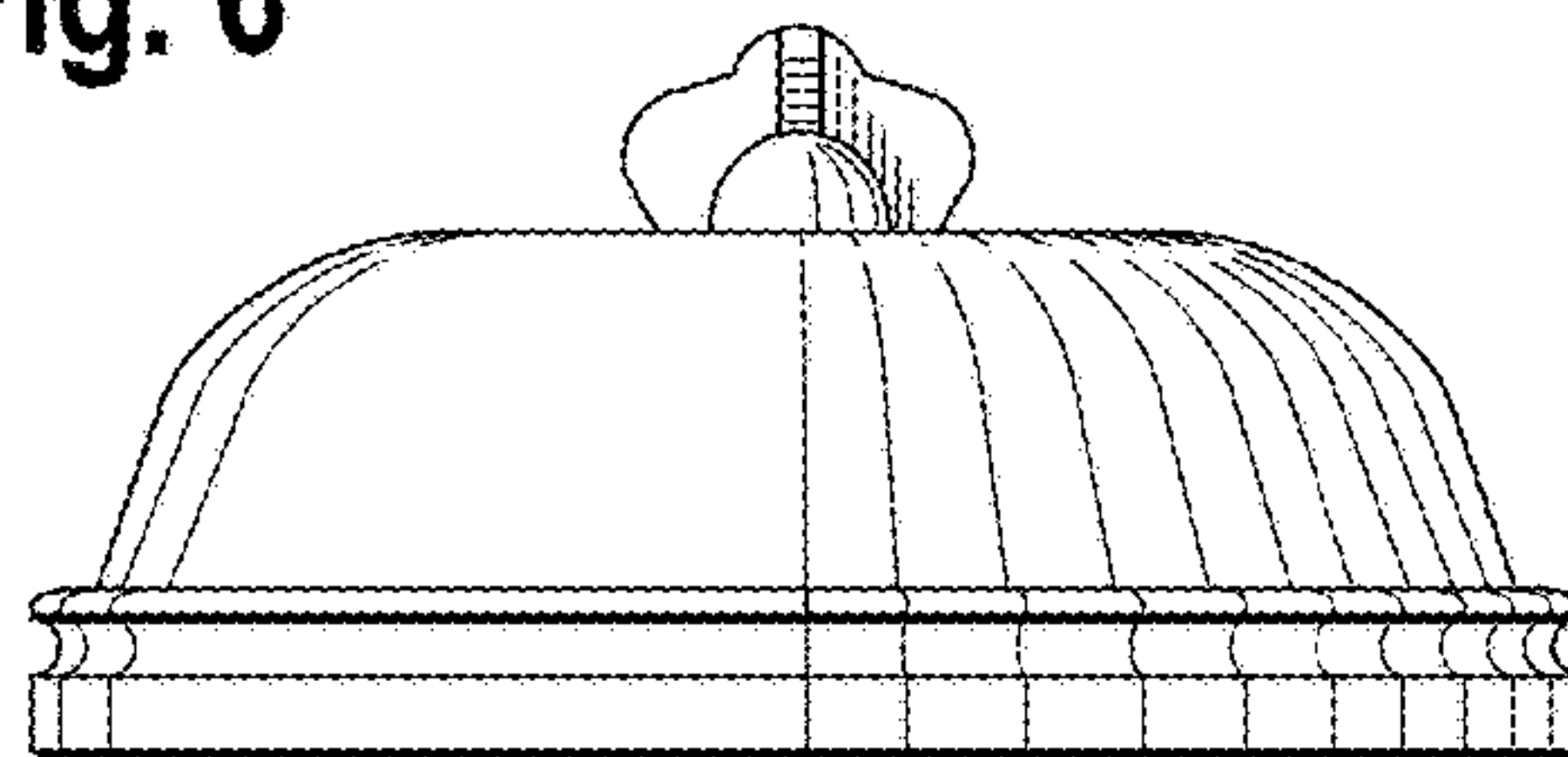
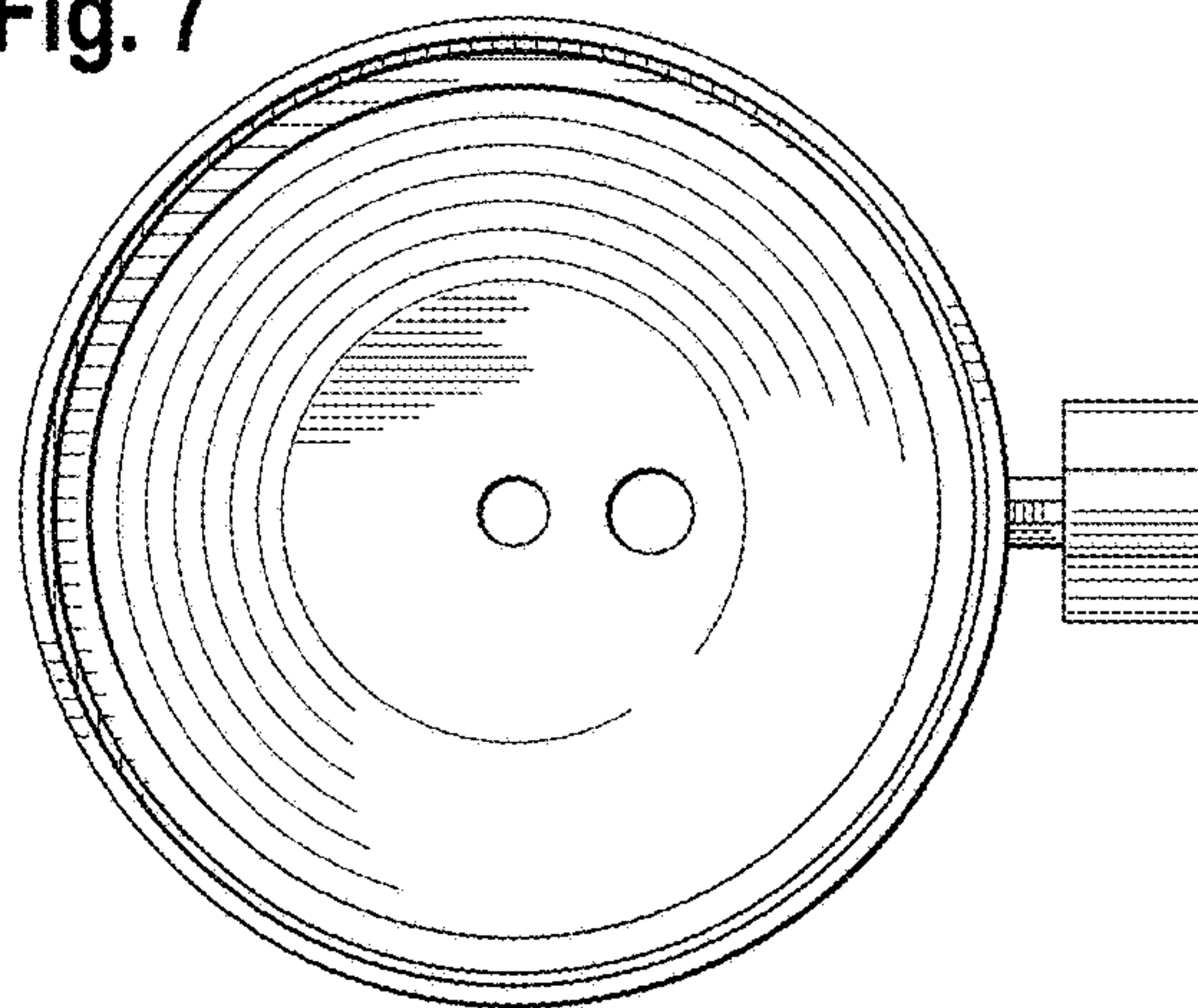


Fig. 7



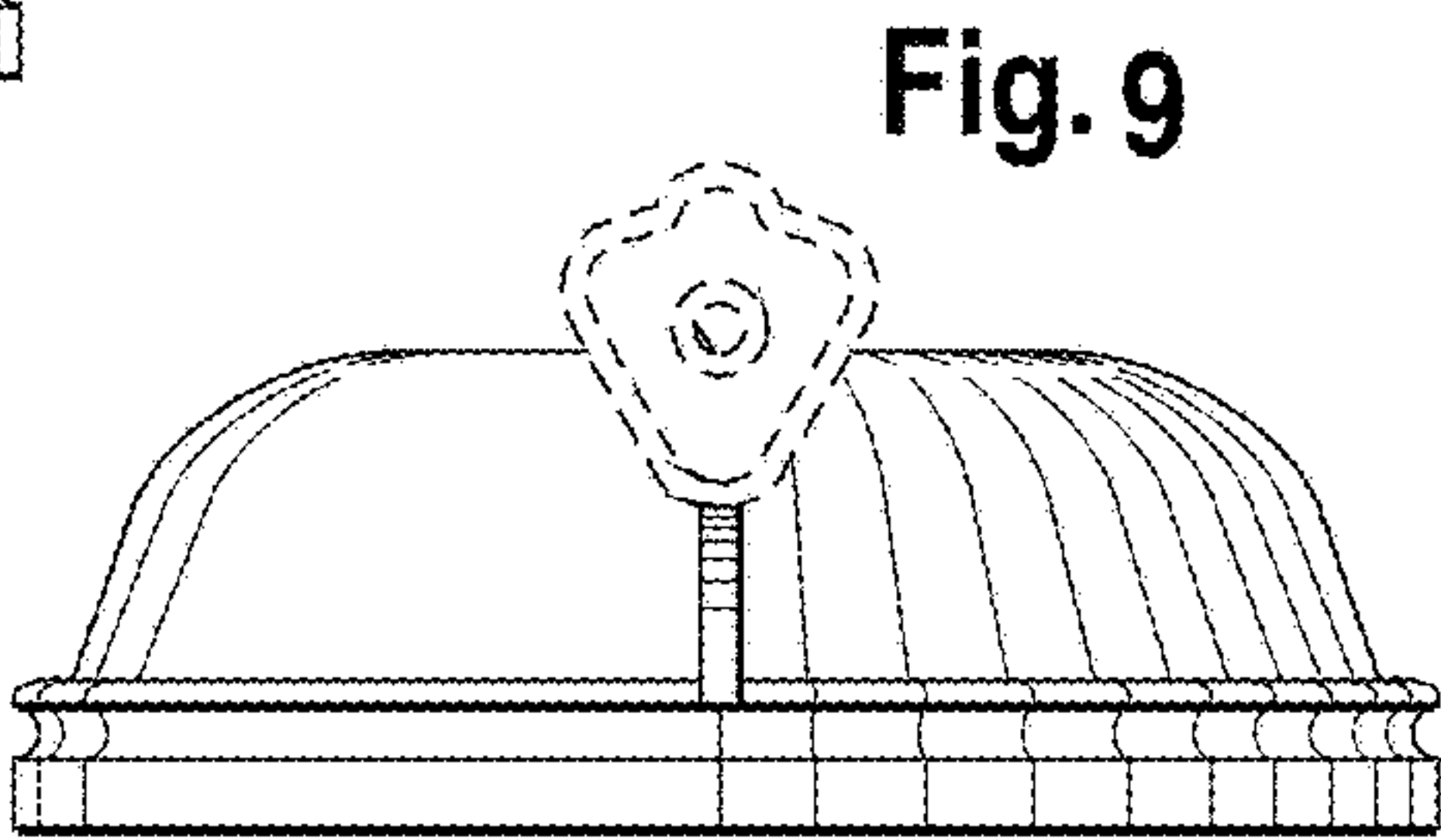
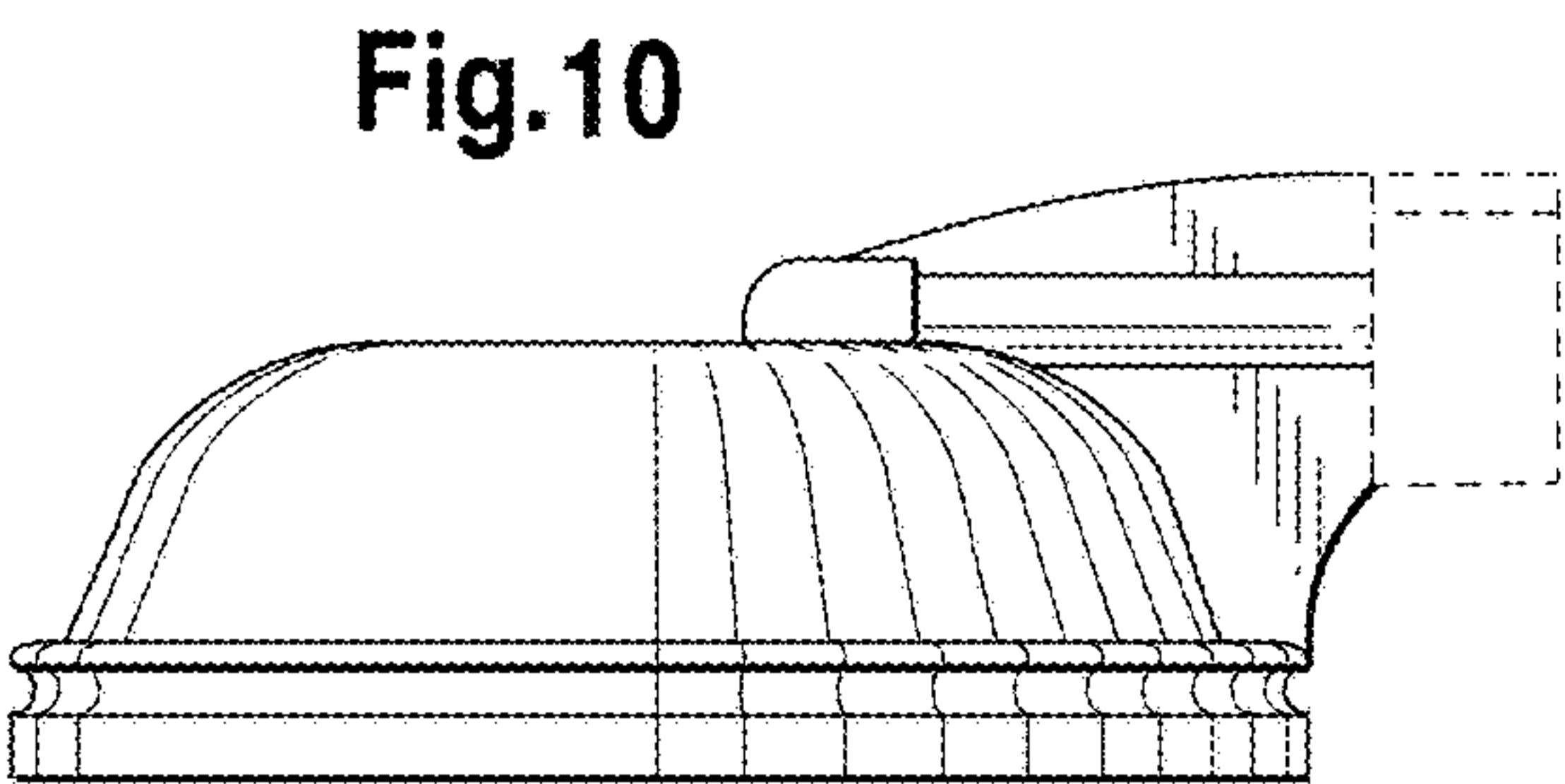
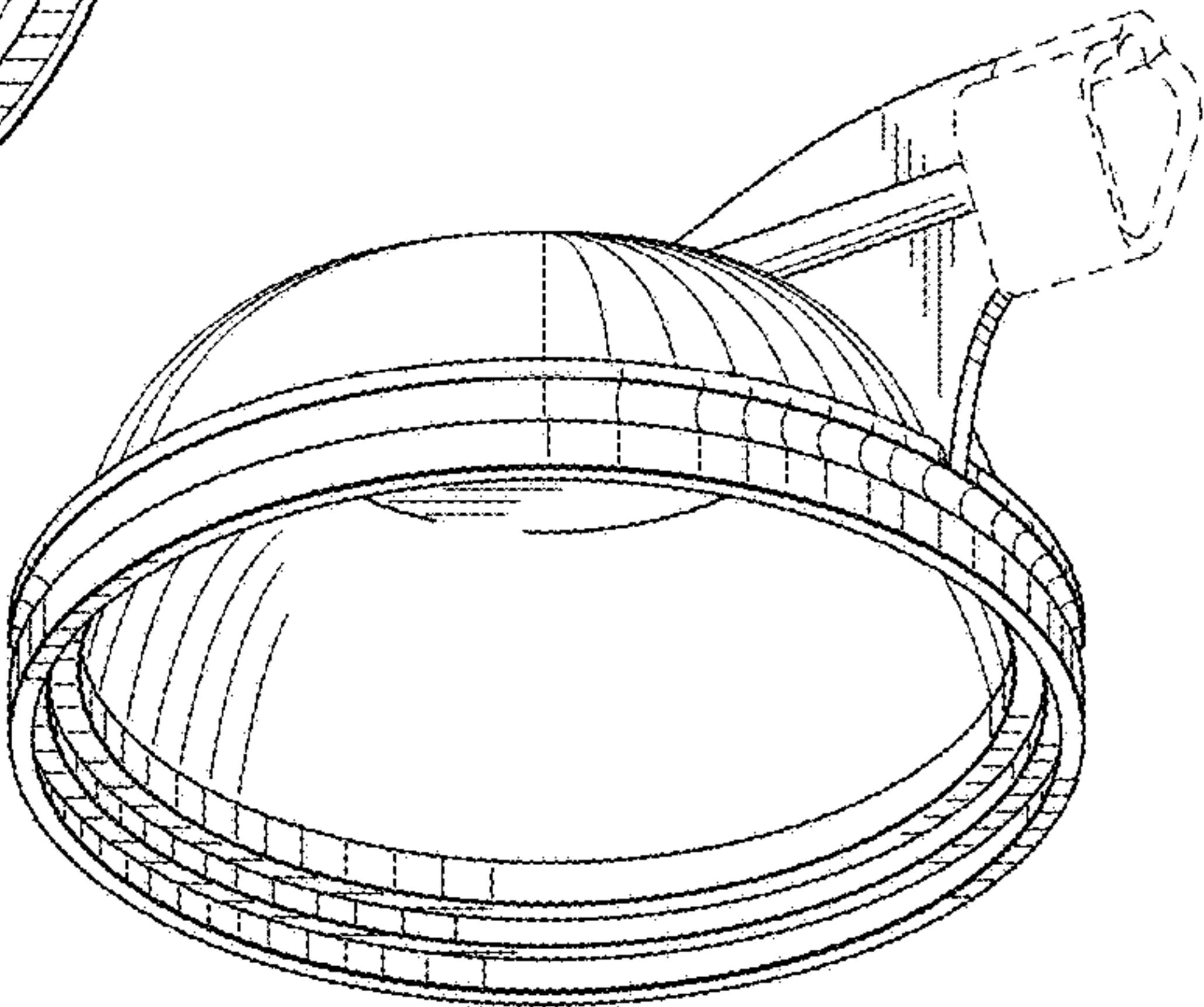
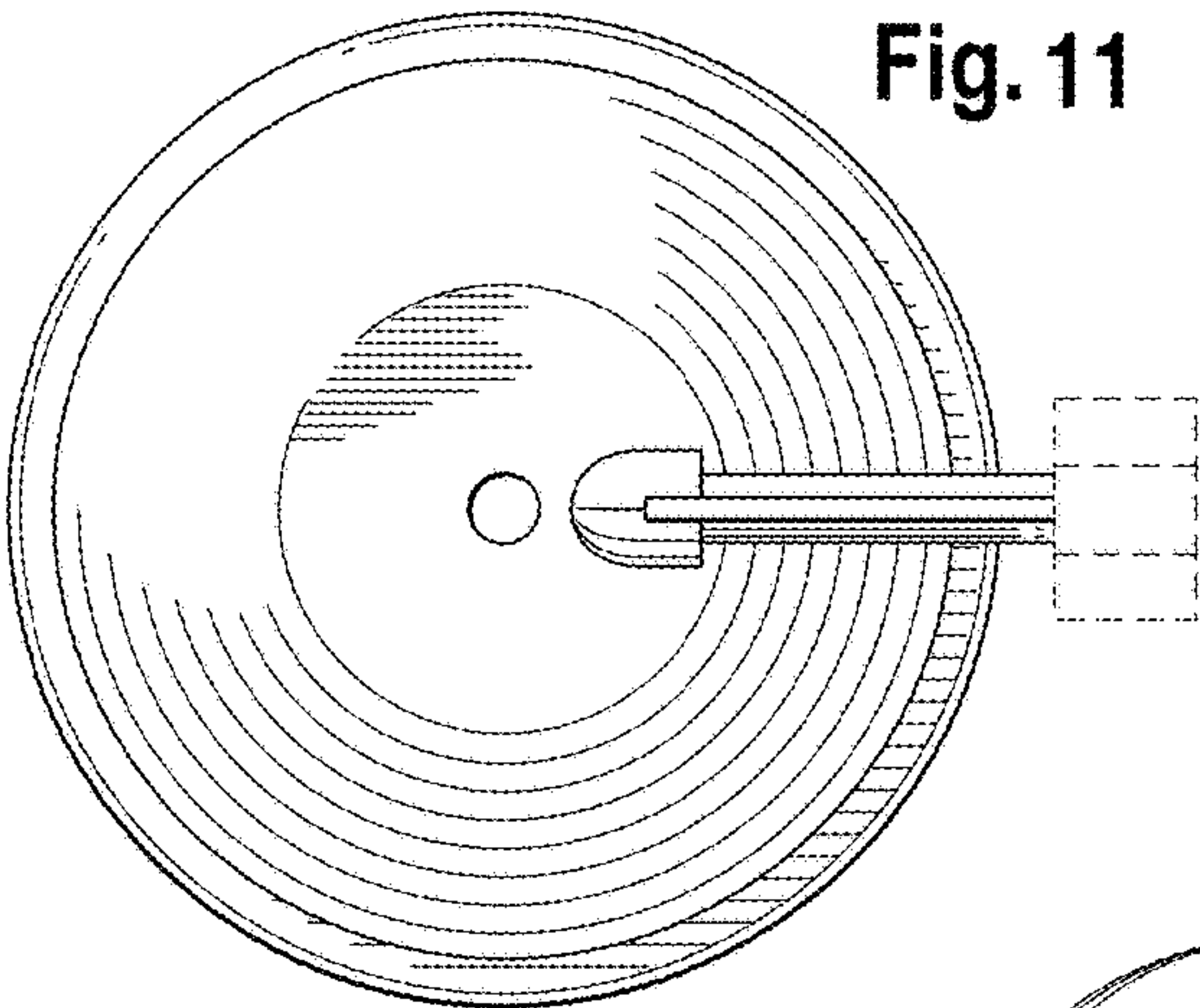


Fig. 12

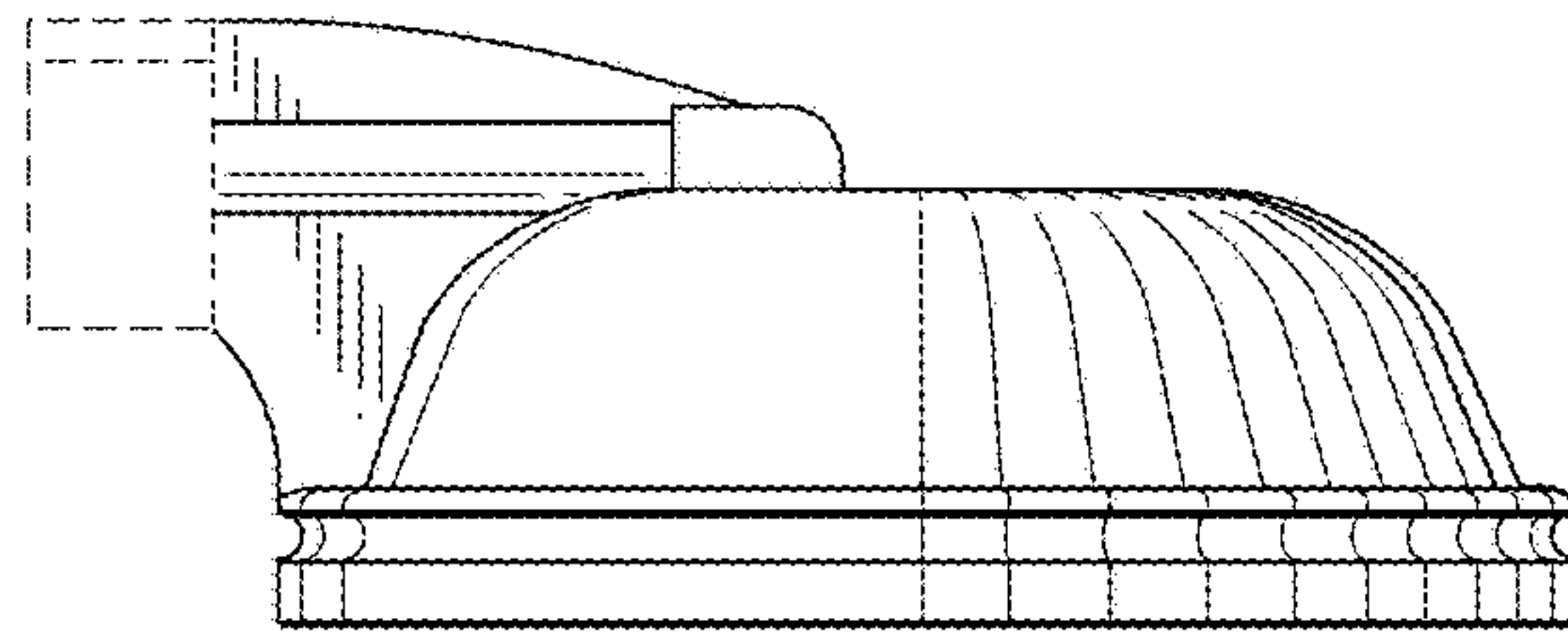


Fig. 13

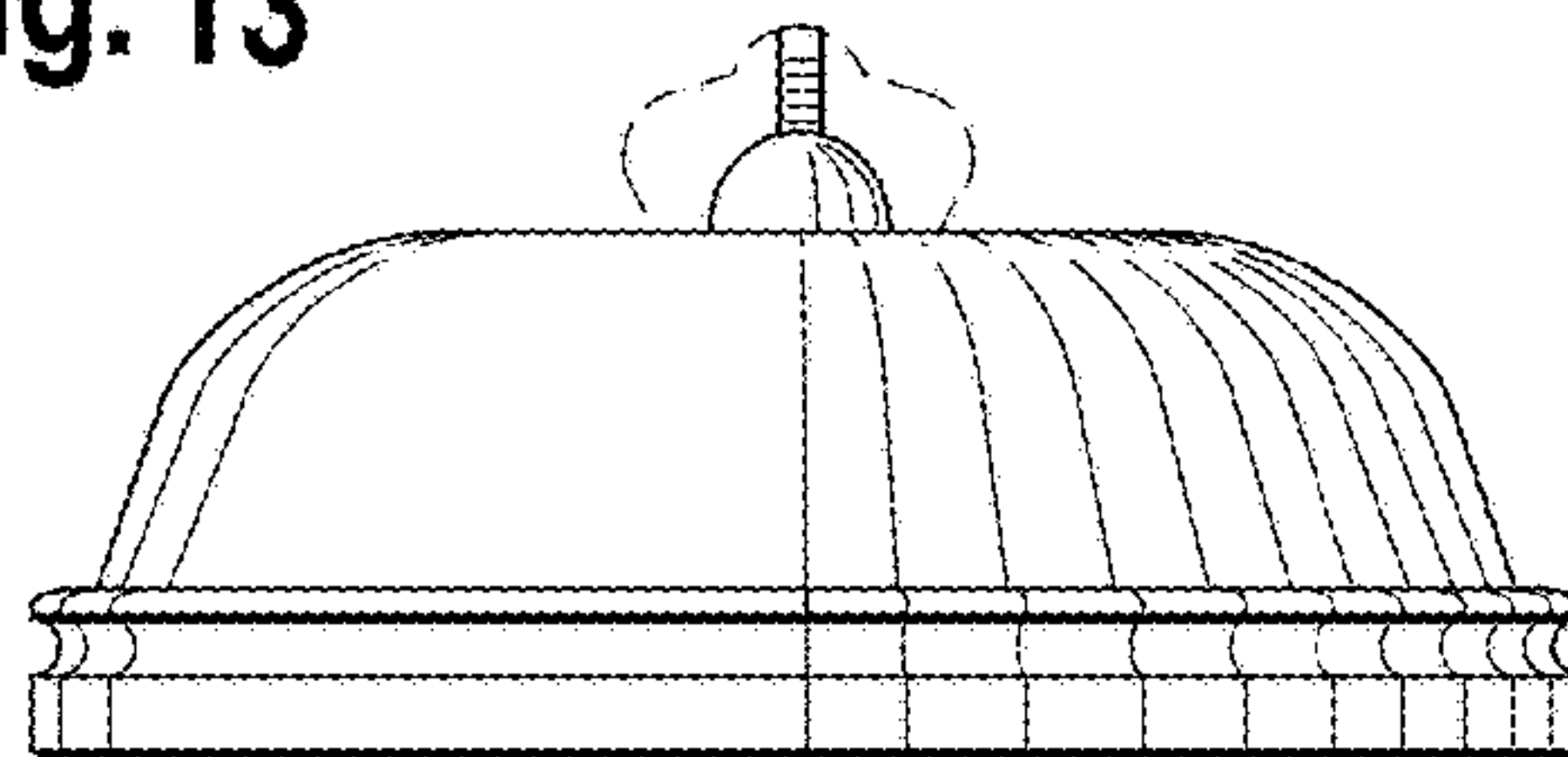
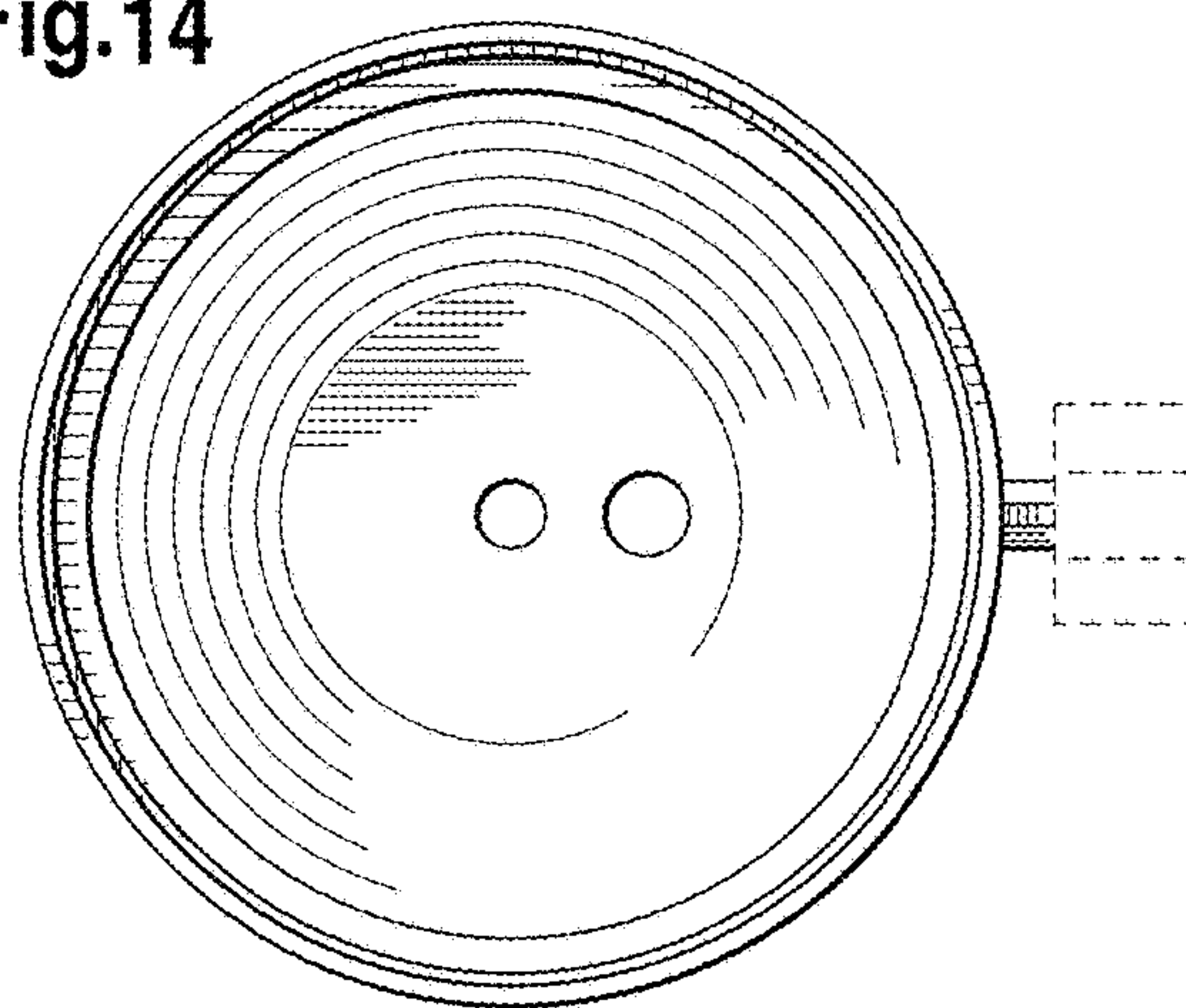


Fig. 14



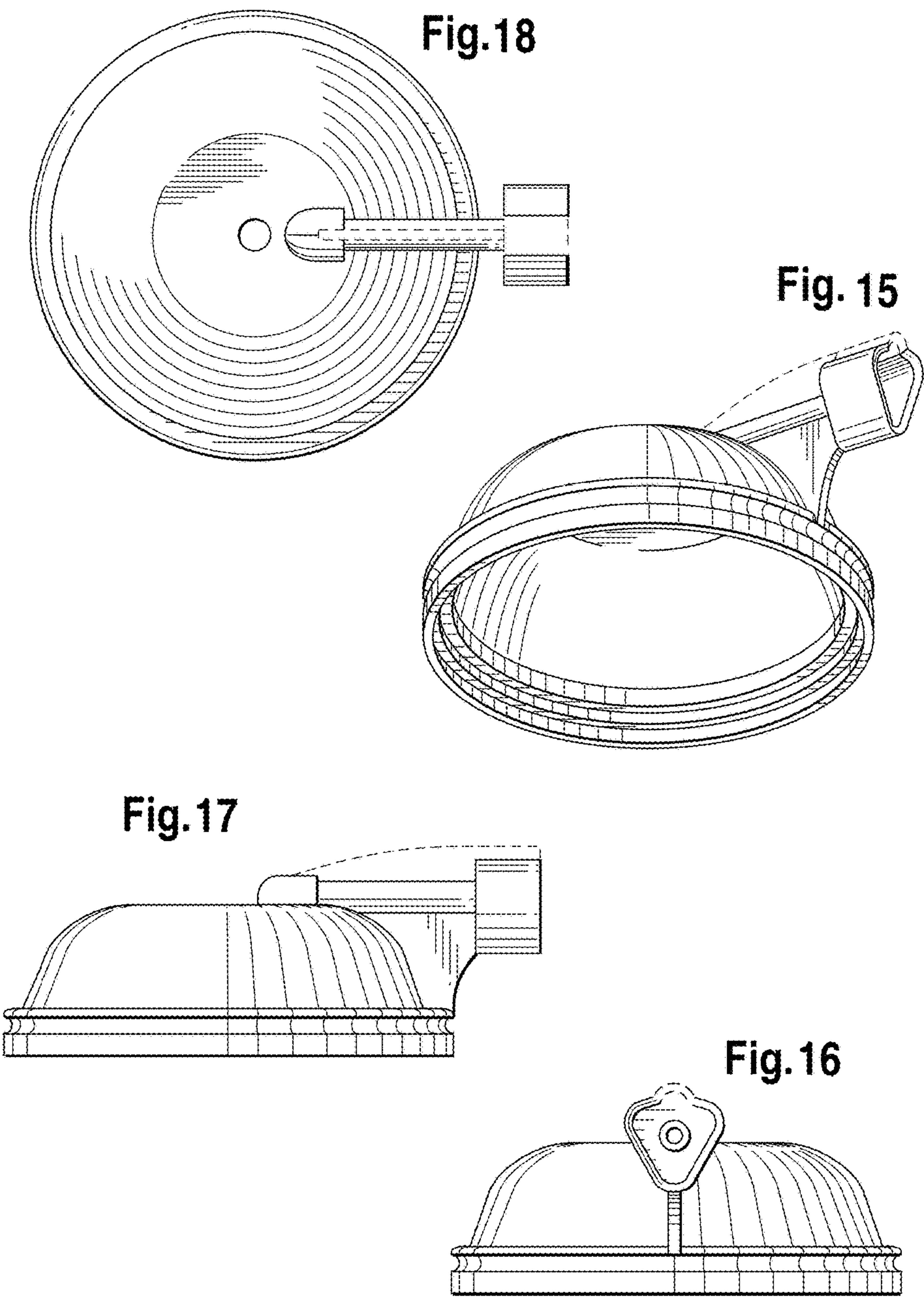


Fig. 19

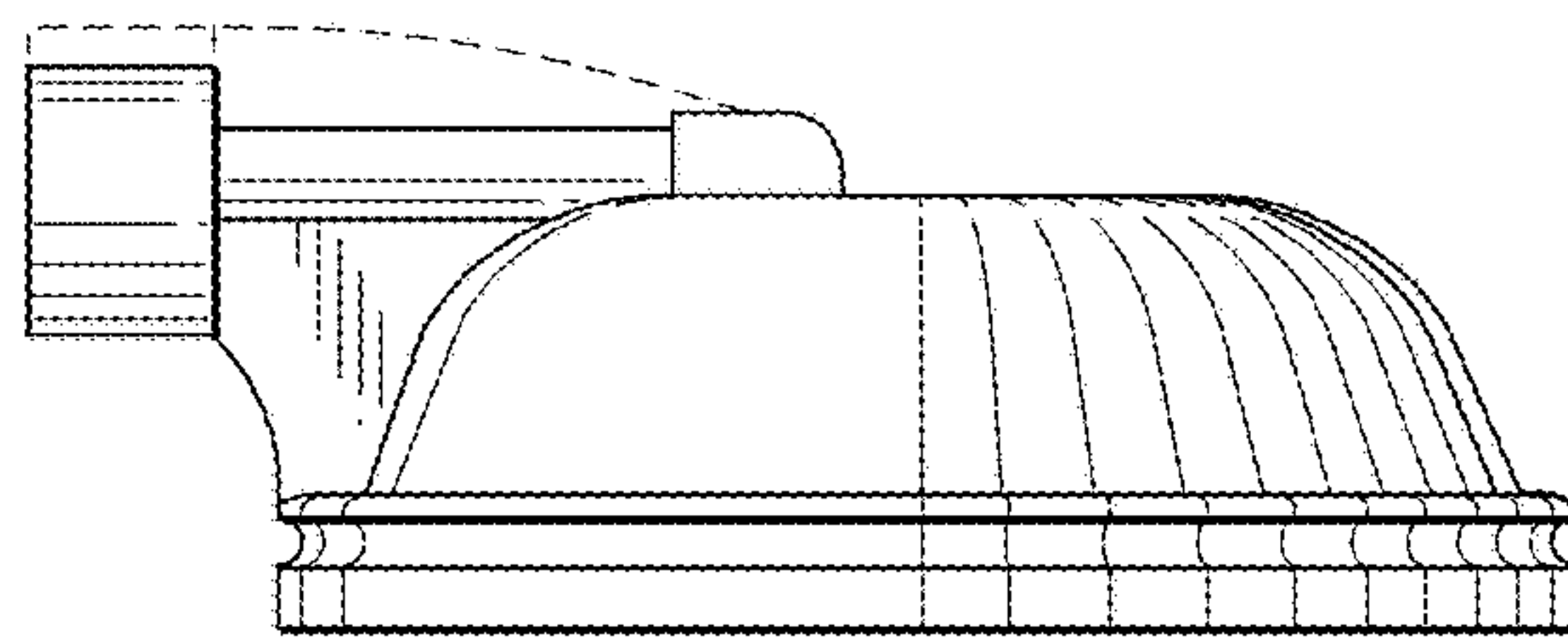


Fig. 20

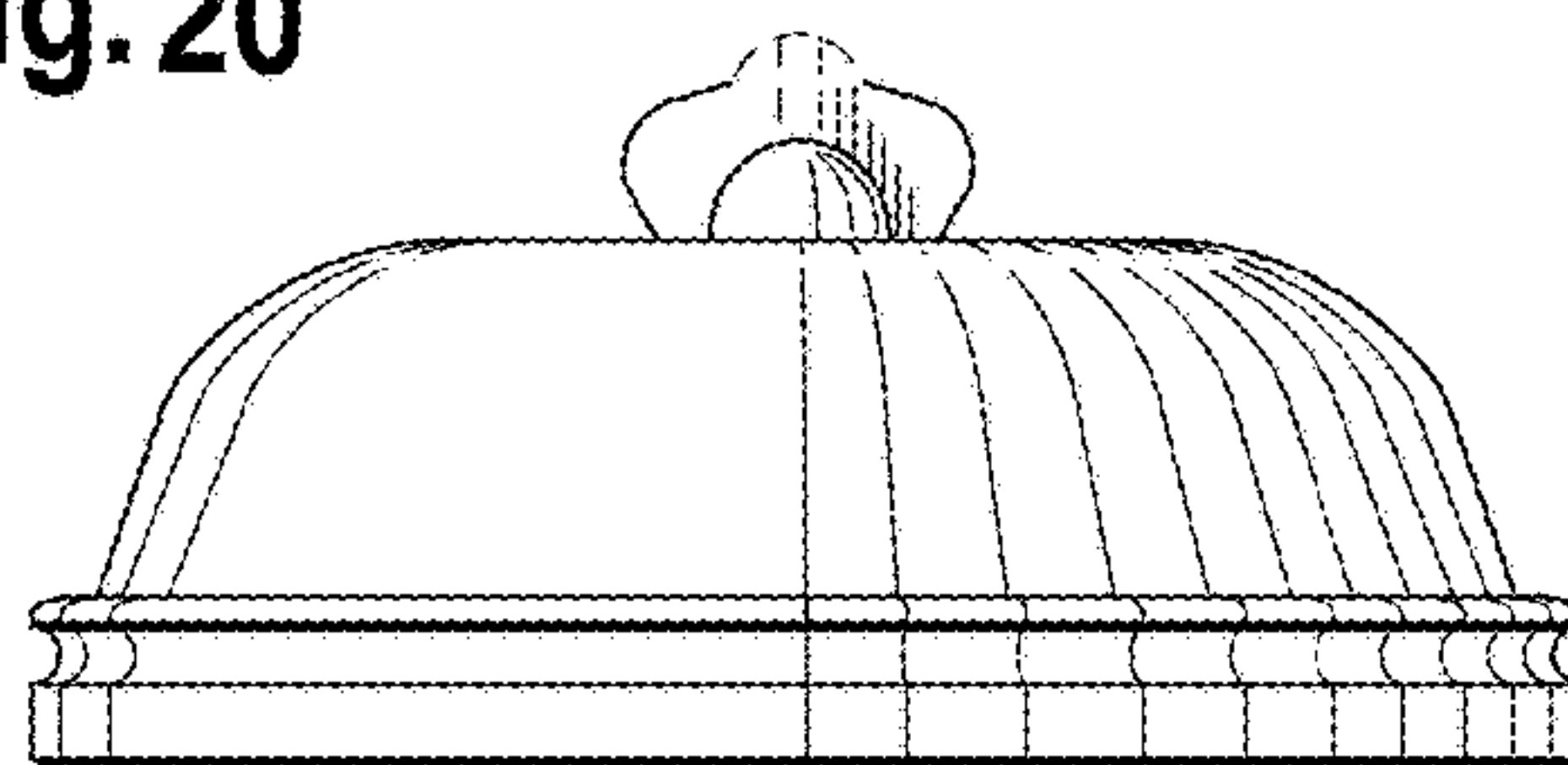


Fig. 21

