



US00D792488S

(12) **United States Design Patent** (10) **Patent No.:** **US D792,488 S**
Graf et al. (45) **Date of Patent:** **** Jul. 18, 2017**

- (54) **HAMMER FOR SHREDDING MACHINES**
- (71) Applicant: **ESCO Corporation**, Portland, OR (US)
- (72) Inventors: **David M. Graf**, Scappoose, OR (US);
Michael R. Weeks, Portland, OR (US);
John P. Hoice, Vancouver, WA (US);
Daniel R. Morrow, Portland, OR (US);
Terry L. Briscoe, Portland, OR (US);
Christopher M. Carpenter, Tualatin,
OR (US)
- (73) Assignee: **ESCO CORPORATION**, Portland, OR
(US)
- (**) Term: **14 Years**
- (21) Appl. No.: **29/526,004**
- (22) Filed: **May 5, 2015**

Related U.S. Application Data

- (62) Division of application No. 29/455,257, filed on May 17, 2013, now Pat. No. Des. 731,564.
- (51) **LOC (10) Cl.** **15-09**
- (52) **U.S. Cl.**
USPC **D15/123**
- (58) **Field of Classification Search**
USPC D15/123, 138, 139; D18/34.1, 34.3,
D18/34.4-34.6, 34.8, 34.9
CPC B02C 13/00; B02C 13/02; B02C 13/04;
B02C 13/28; B02C 13/2804; B02C
2013/2808; B02C 2013/2812
See application file for complete search history.

- (56) **References Cited**
- U.S. PATENT DOCUMENTS
- 5,598,981 A * 2/1997 Hellmich B02C 13/28
241/189.1
- D731,564 S * 6/2015 Graf D15/123
- D731,565 S * 6/2015 Weeks D15/123
- 2015/0129695 A1* 5/2015 Weeks B02C 13/28
241/189.1
- 2016/0008819 A1* 1/2016 Meeuwsen B02C 13/04
241/86.2
- FOREIGN PATENT DOCUMENTS
- CN 303648280 * 4/2016
- * cited by examiner

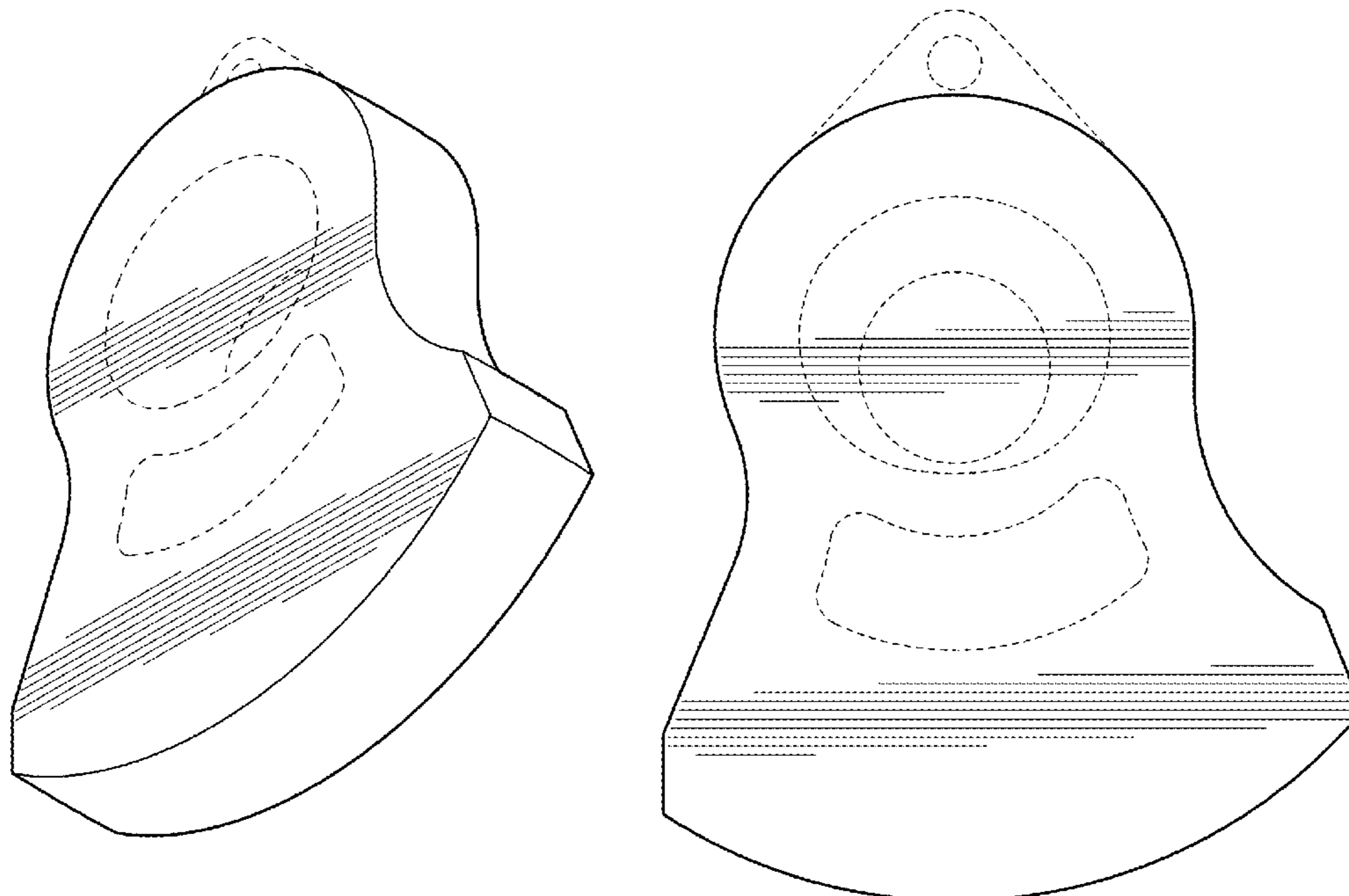
Primary Examiner — Bridget L Eland
(74) *Attorney, Agent, or Firm* — John Anderton

(57) **CLAIM**
The ornamental design for a hammer for shredding machines, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a hammer for shredding machines in accordance with the present invention; FIG. 2 is a front view thereof; FIG. 3 is a top view thereof; FIG. 4 is a first side view thereof; FIG. 5 is a back view thereof; FIG. 6 is a second side view thereof; and, FIG. 7 is a bottom view thereof. The broken lines in the drawings are directed to environment; the broken lines form no part of the claimed design.

1 Claim, 2 Drawing Sheets



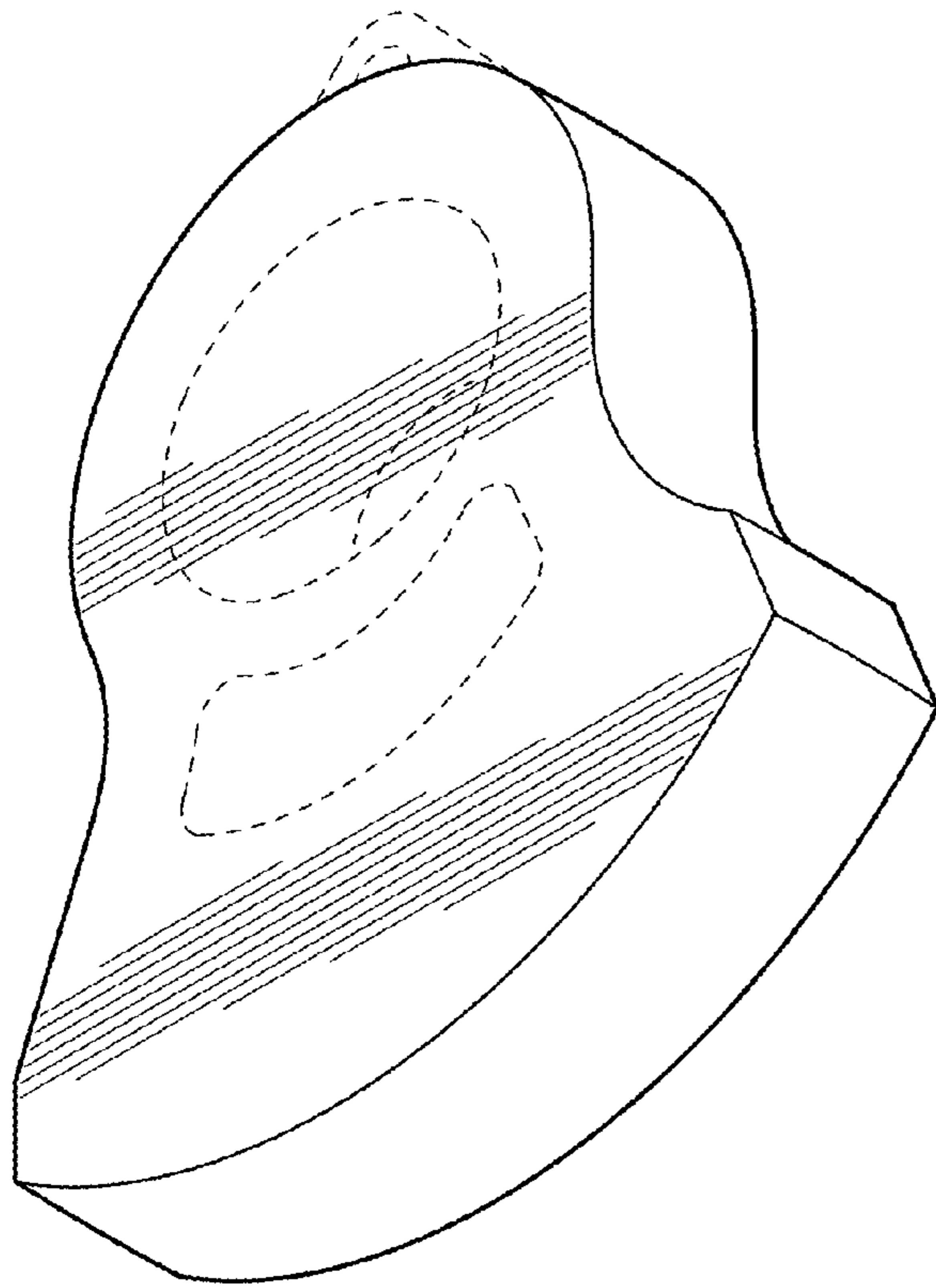


FIG. 1

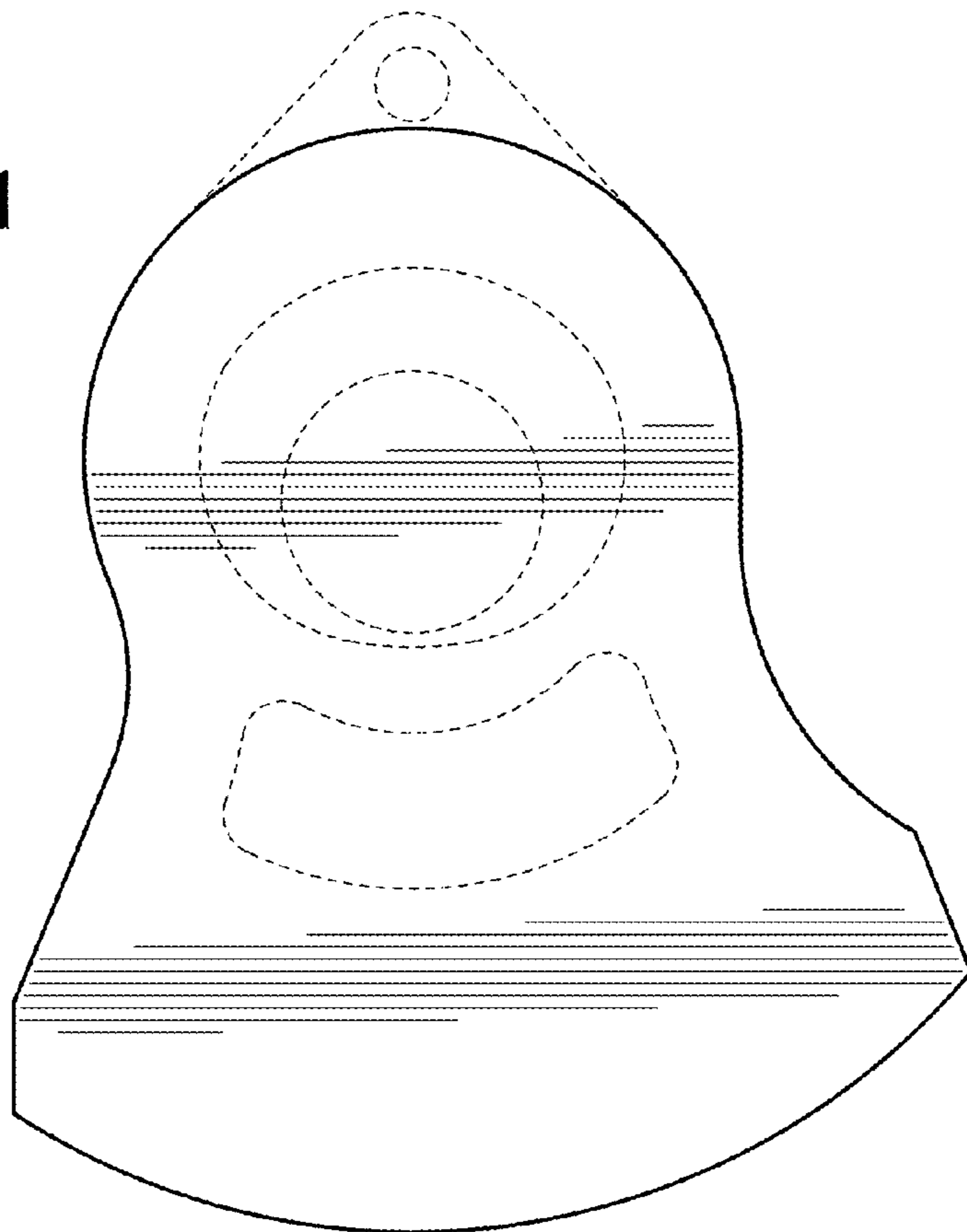


FIG. 2

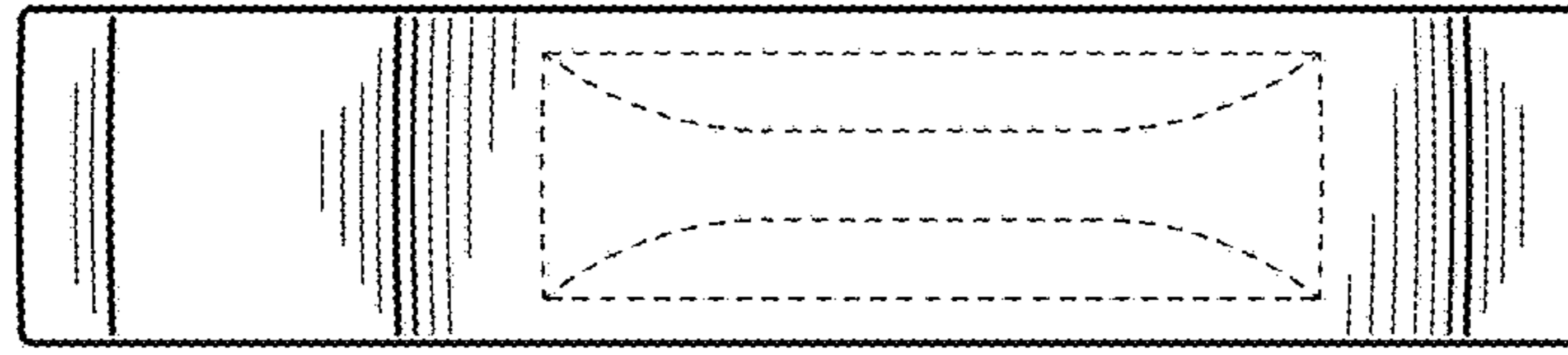


FIG. 3

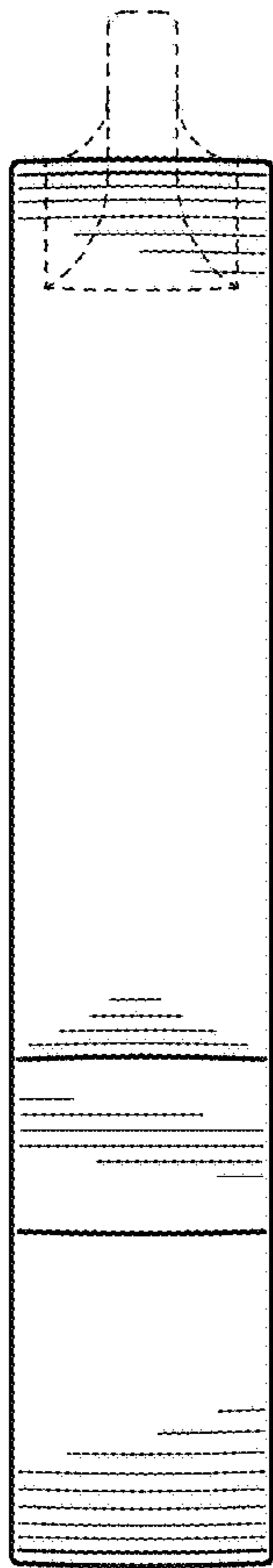


FIG. 4

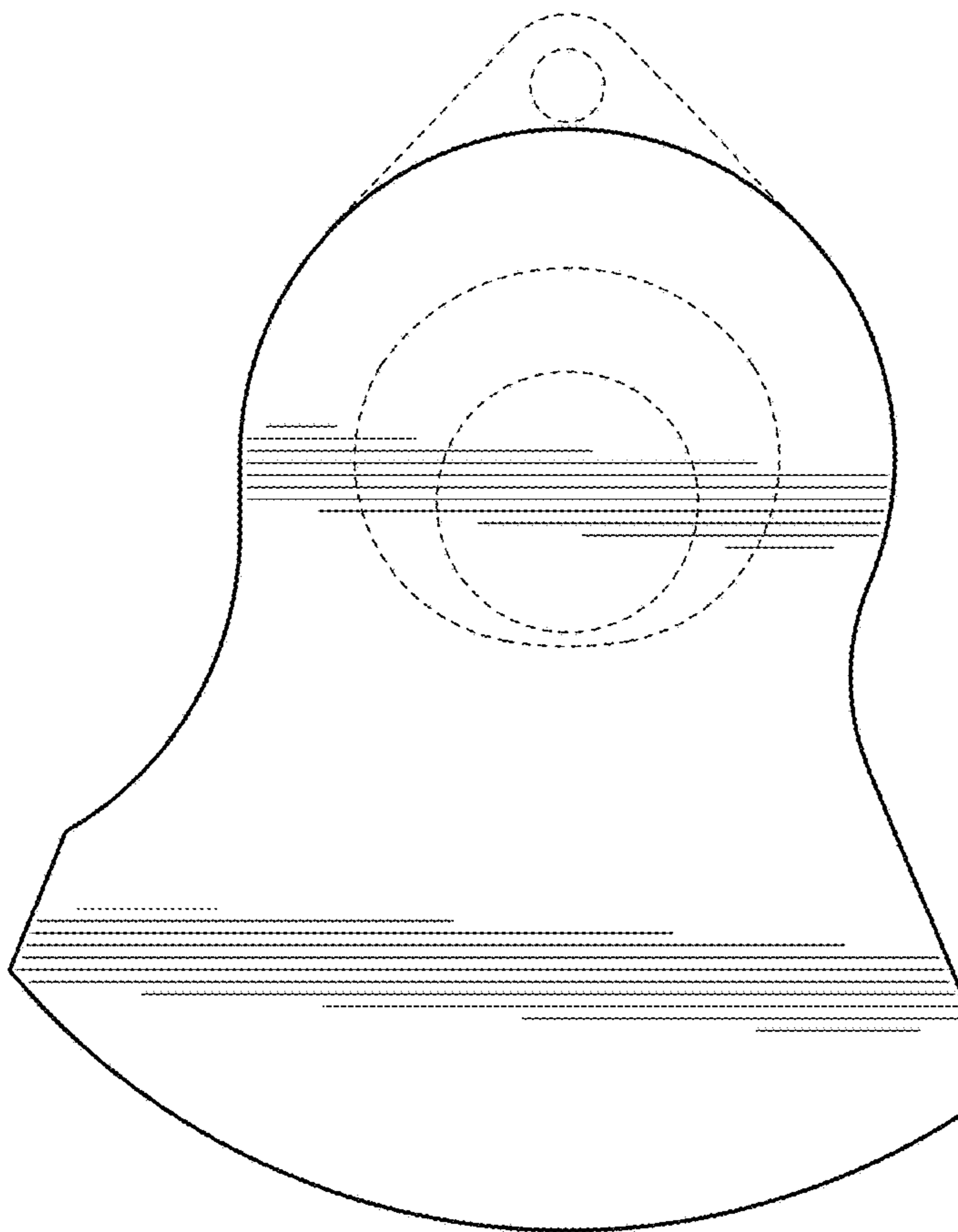


FIG. 5



FIG. 6



FIG. 7