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(12) **United States Design Patent** (10) **Patent No.:** **US D963,716 S**
Shimamoto et al. (45) **Date of Patent:** **** Sep. 13, 2022**

(54) **CUTTING INSERT**

CPC B23C 2200/0411; B23C 2200/0416; B23C 2200/0433; B23C 2200/164; B23C 2200/361; B23C 2210/0457; B23C 5/006; B23C 2200/168; B23C 2210/163; B23C 2226/125; B23C 5/10; B23C 2200/081; B23C 2200/087; B23C 2200/161; B23C 2200/206; B23C 2210/02; B23C 2210/03;
(Continued)

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(73) Assignees: **SUMITOMO ELECTRIC HARDMETAL CORP.**, Itami (JP);
HARTMETALL-WERKZEUGFABRIK PAUL HORN GMBH, Tuebingen (DE)

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

Primary Examiner — Khawaja Anwar

(21) Appl. No.: **29/781,339**

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(22) Filed: **Apr. 29, 2021**

(57) **CLAIM**

Related U.S. Application Data

The ornamental design for a cutting insert, as shown and described.

(62) Division of application No. 29/685,646, filed on Mar. 29, 2019, now Pat. No. Des. 931,916.

DESCRIPTION

(30) **Foreign Application Priority Data**

Oct. 1, 2018 (JP) 2018-021408
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Oct. 1, 2018 (JP) 2018-021411
Oct. 1, 2018 (JP) 2018-021412
Oct. 1, 2018 (JP) 2018-021413
Oct. 1, 2018 (JP) 2018-021414
Oct. 1, 2018 (JP) 2018-021415

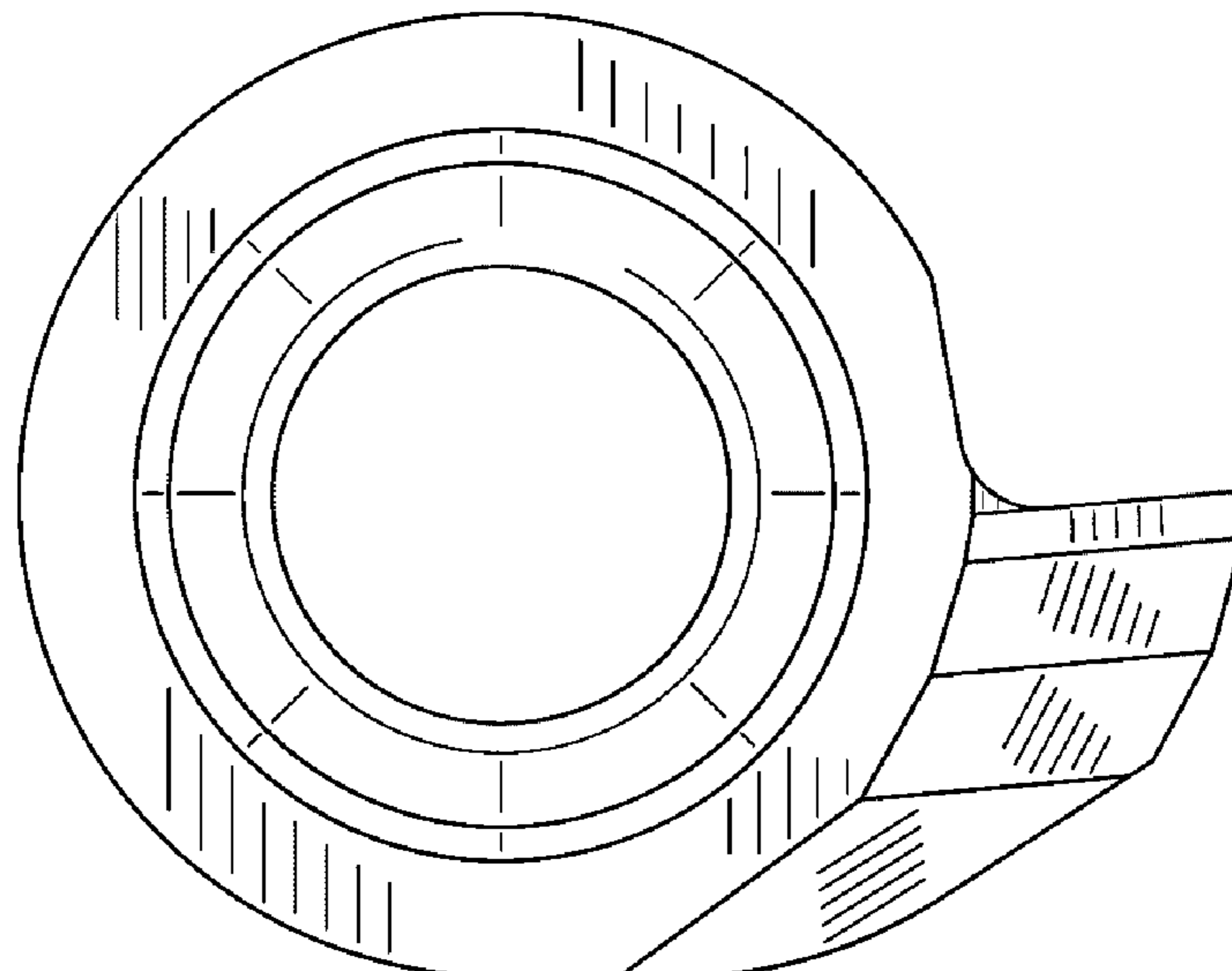
FIG. 1 is a front view of a cutting insert of the present design;
FIG. 2 is a rear view thereof;
FIG. 3 is a right side view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a bottom view thereof;
FIG. 7 is a first perspective view thereof;
FIG. 8 is a second perspective view thereof; and,
FIG. 9 is a referential perspective view showing the state in use of the cutting insert attached to the holder by fixing member, for cutting a work piece.
The broken lines in the referential perspective view depict unclaimed environmental subject matter.

(51) **LOC (13) Cl.** **15-03**

(52) **U.S. Cl.**
USPC **D15/139**

(58) **Field of Classification Search**
USPC D15/124–144; D8/70, 90, 98, 120

1 Claim, 5 Drawing Sheets



(58) **Field of Classification Search**

CPC B23C 2210/166; B23C 2210/50; B23C
2226/315; B23C 5/2208; B23C 5/2472;
B23C 2200/0477; B23C 2200/0483;
B23C 2200/083; B23C 2200/121; B23C
2200/362; B23C 2210/0428; B23C
2210/0435; B23C 2210/16; B23C
2220/36; B23C 2220/44; B23C 2240/08;
B23C 2250/12; B23C 2270/06; B23C
5/2204; B23C 5/2213; B23C 5/2247;
B23C 5/2427; B23C 2200/0422; B23C
2200/08; B23C 2200/086; B23C
2200/123

See application file for complete search history.

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FIG. 1

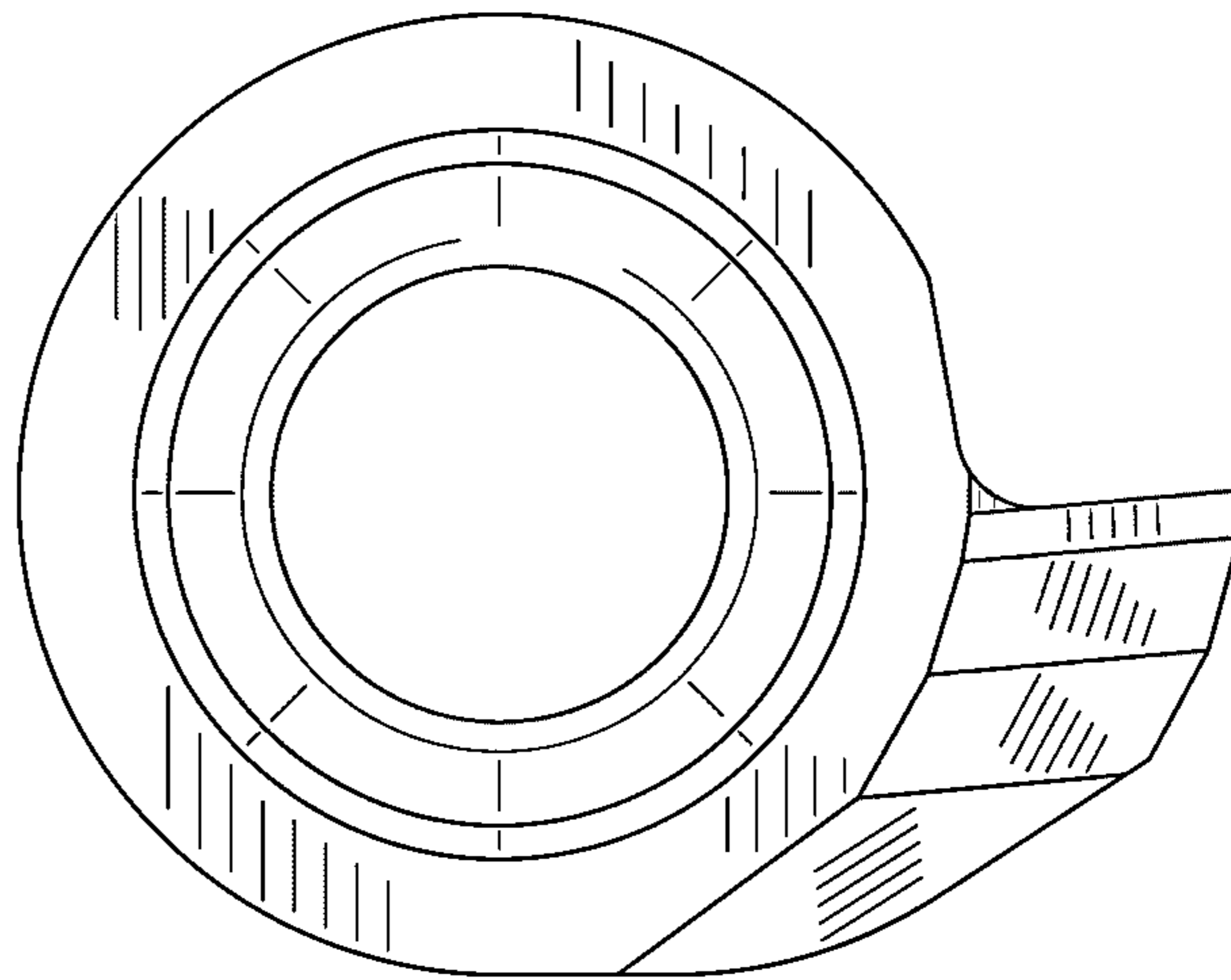


FIG. 2

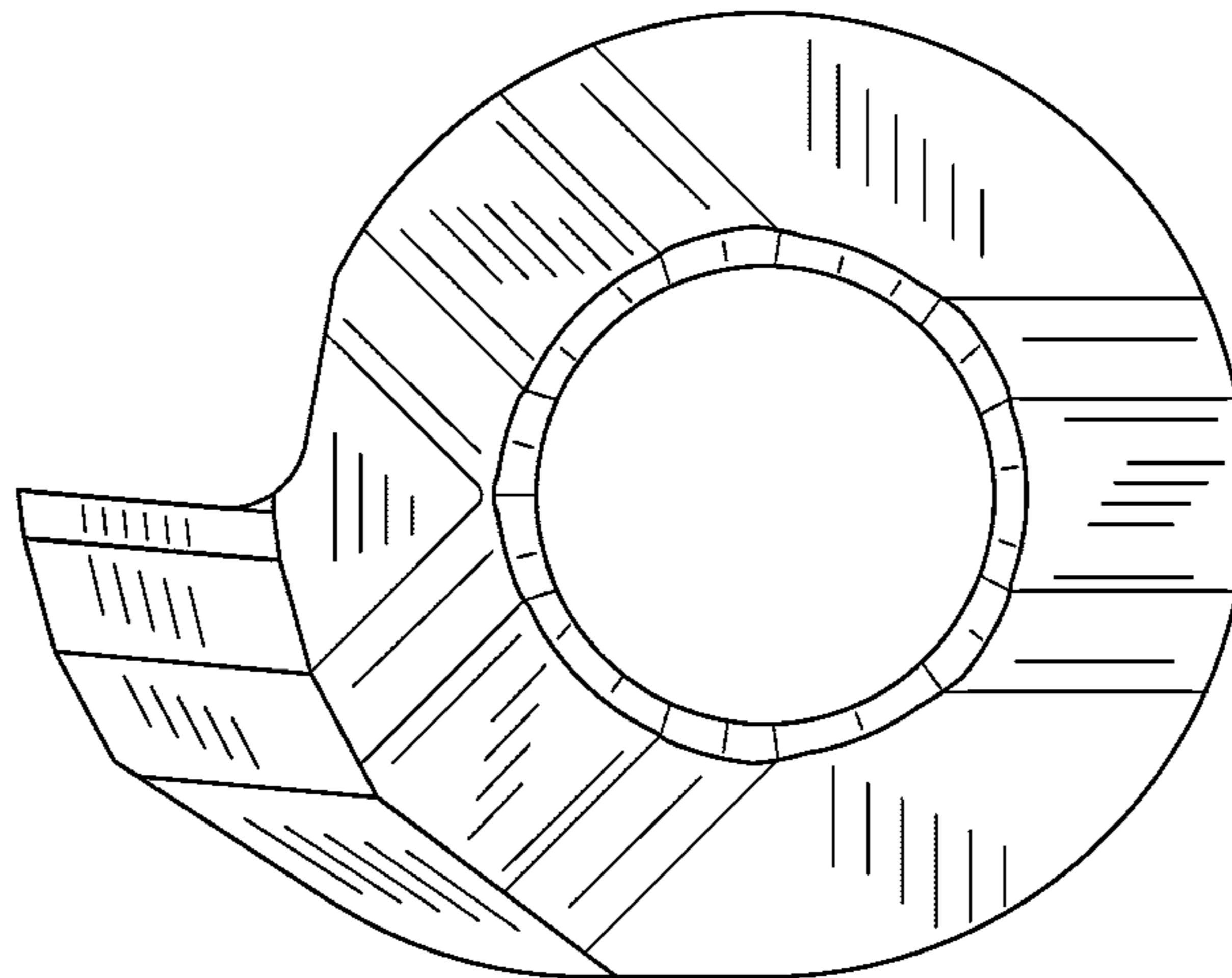


FIG. 3

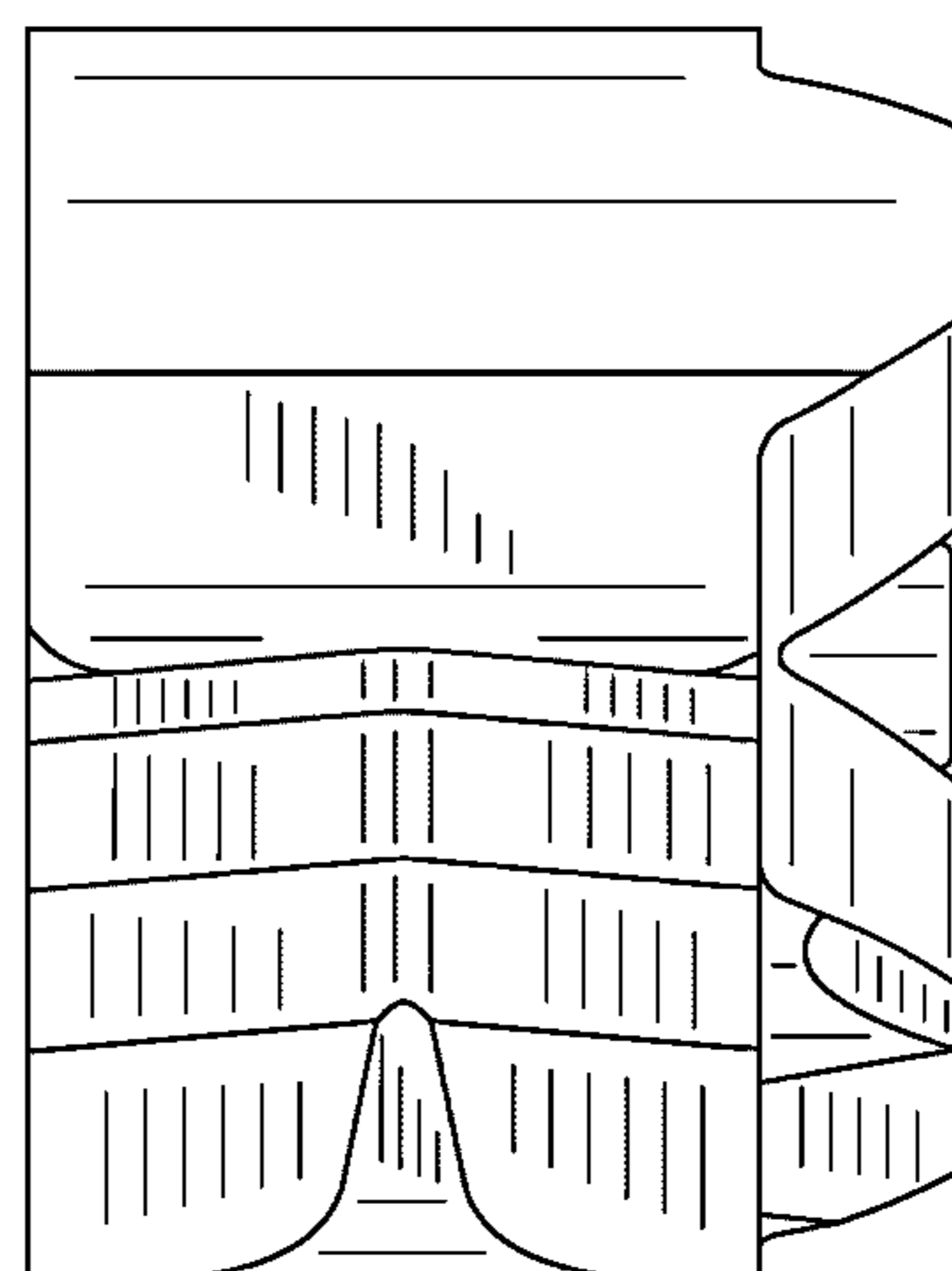


FIG. 4

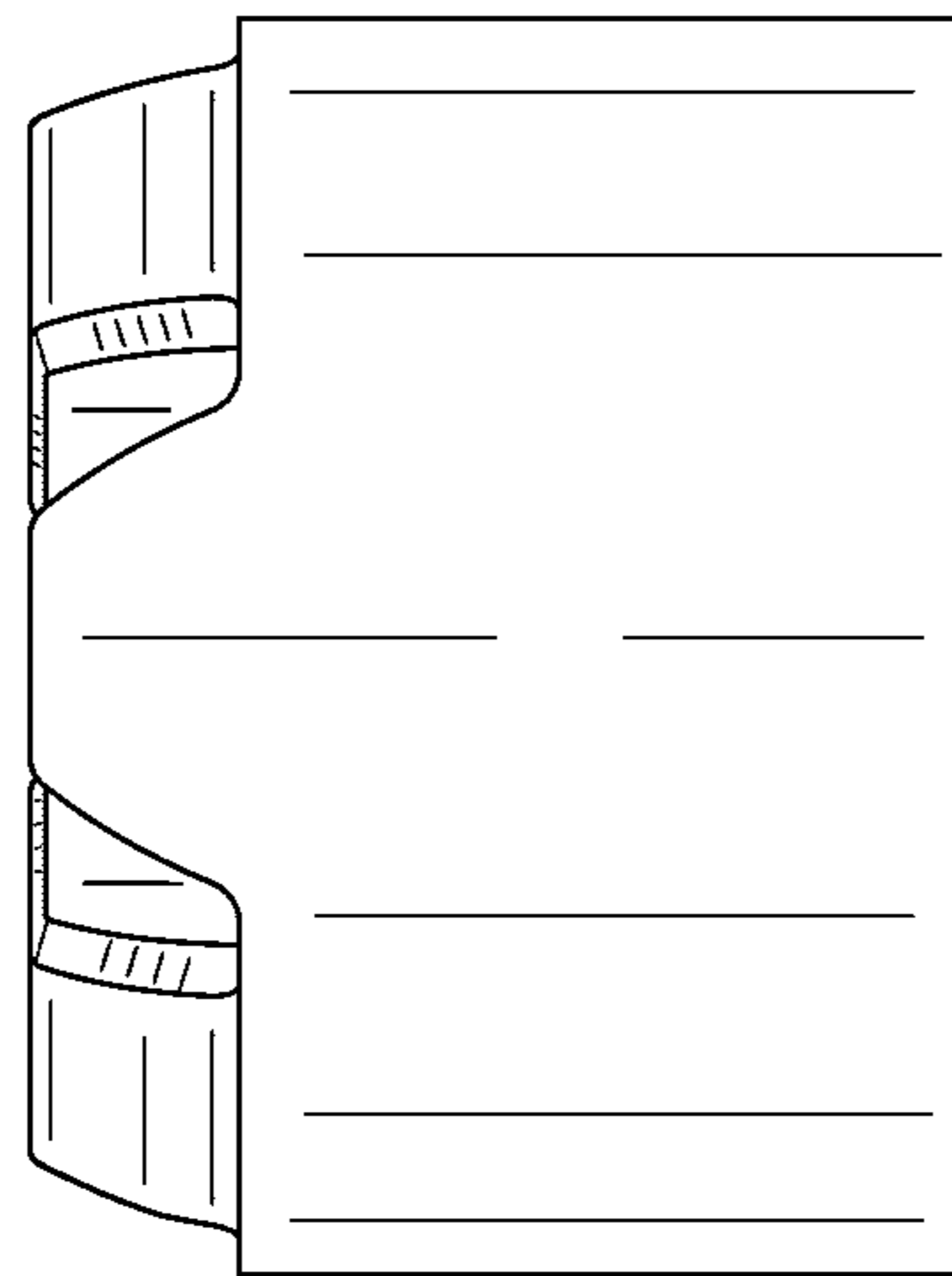


FIG. 5

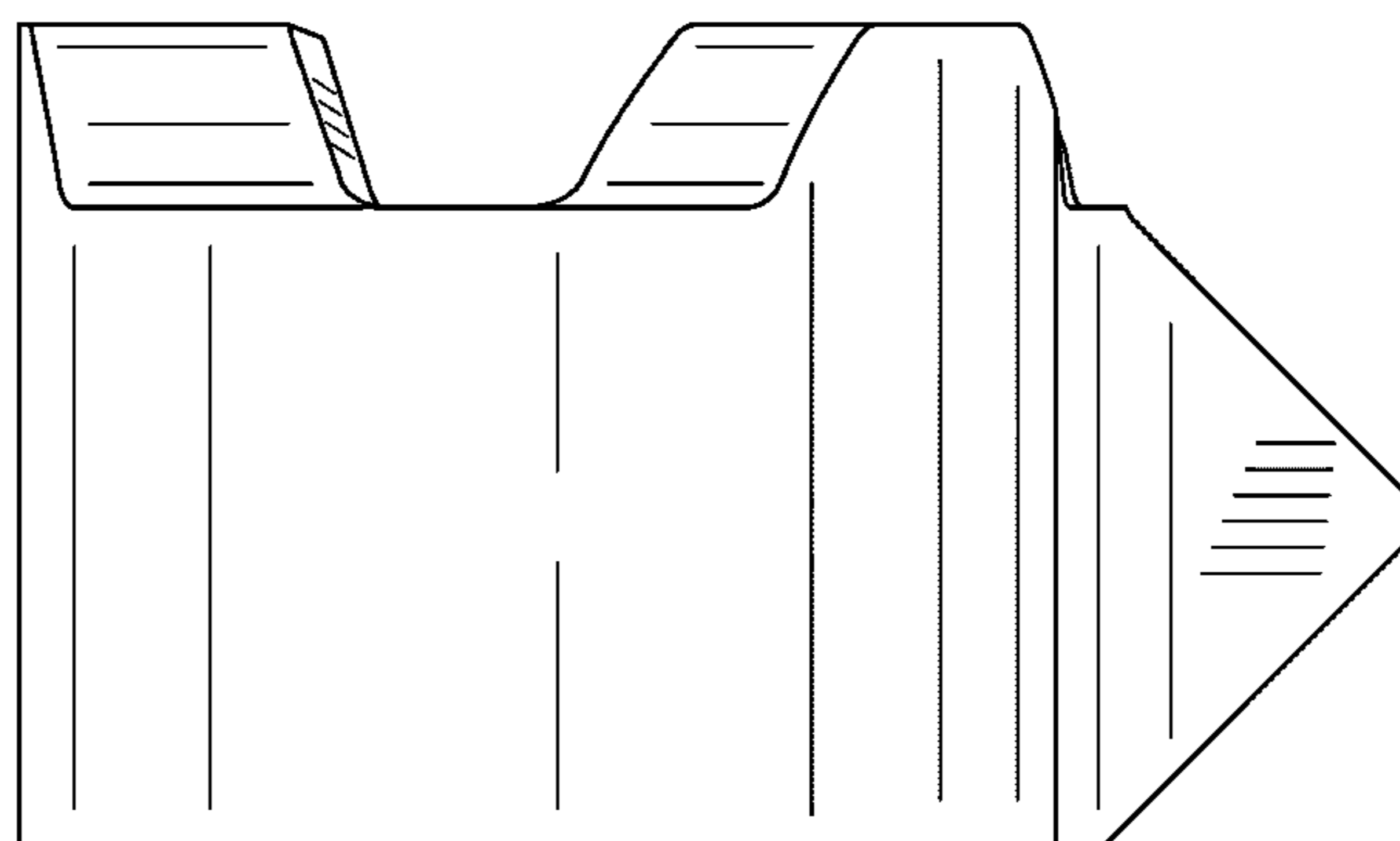


FIG. 6

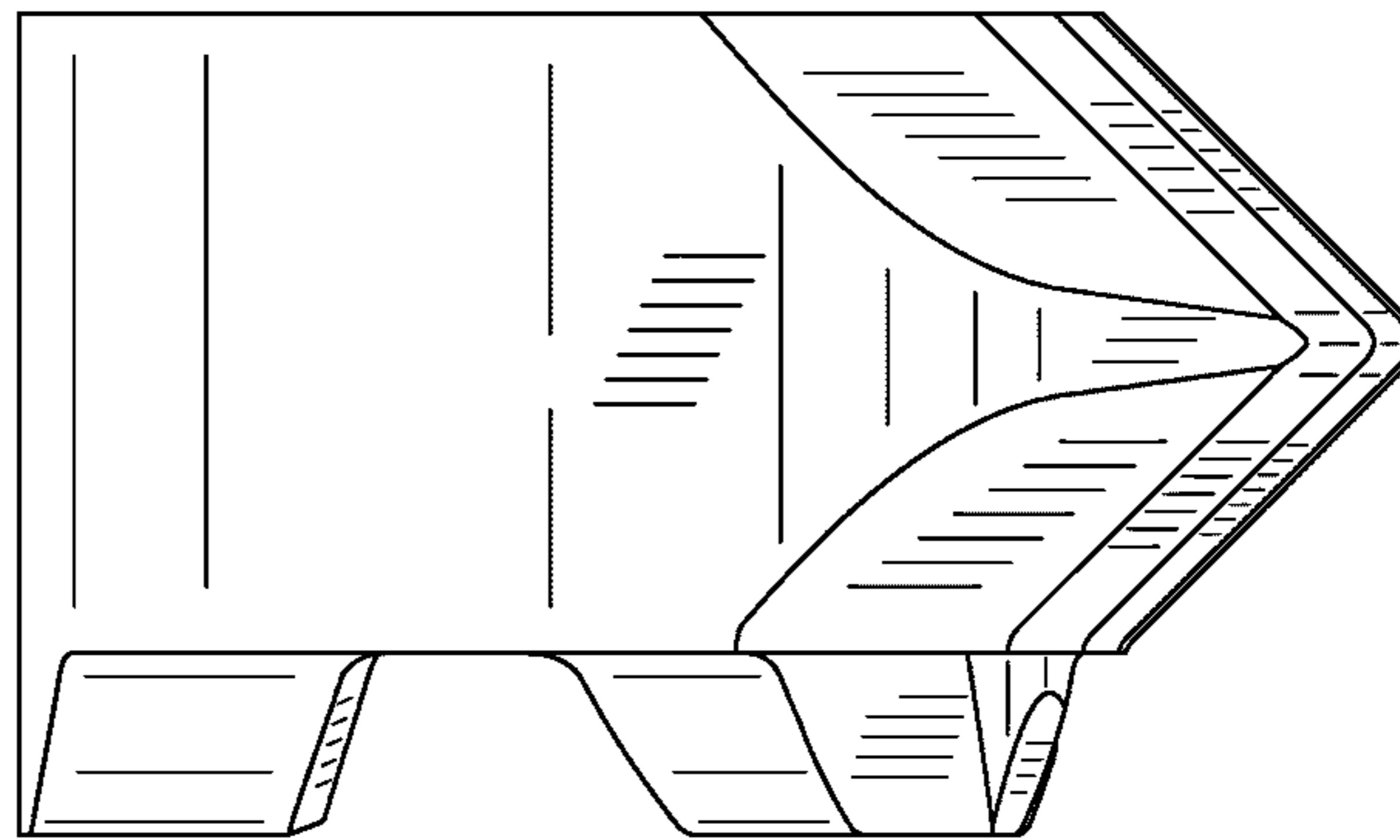


FIG. 7

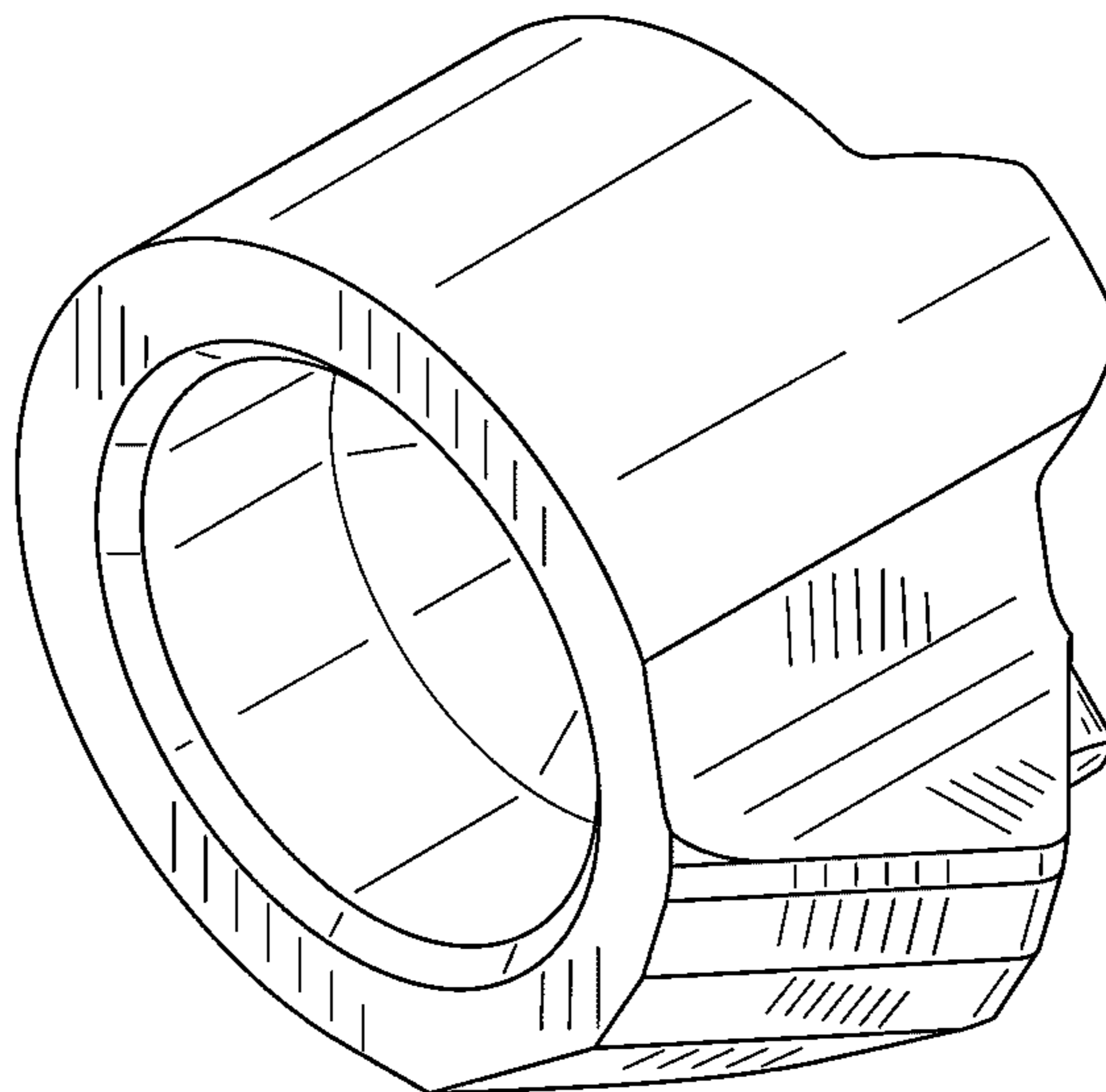


FIG. 8

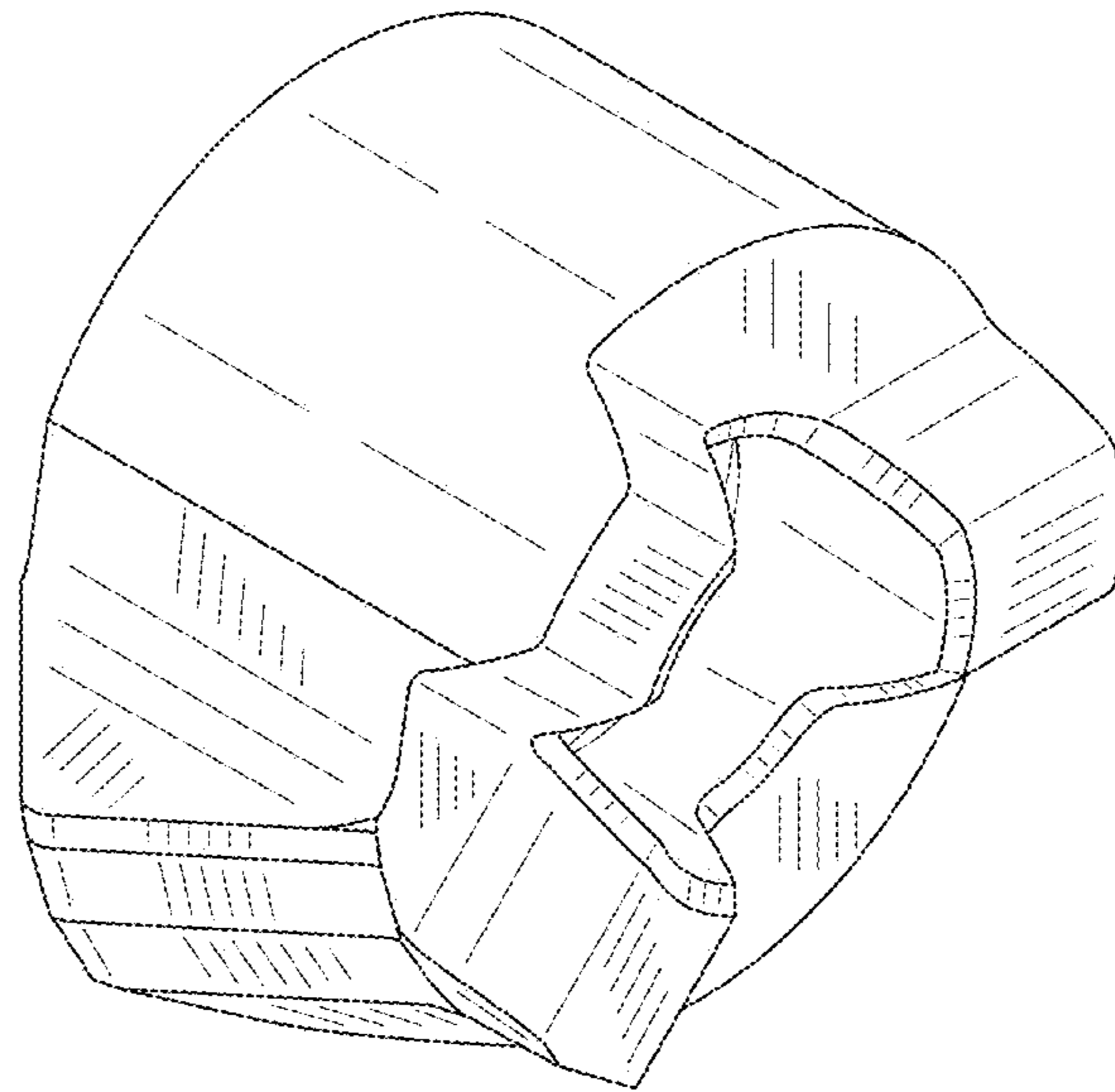


FIG. 9

