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

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- (54) **ROCK TUMBLER**
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4,045,918 A * 9/1977 Freedman B24B 31/027
451/328
4,206,573 A * 6/1980 Hayward B24B 31/027
451/328
T101,801 I4 * 5/1982 Bierschbach 33/562
(Continued)

- (**) Term: **15 Years**
- (21) Appl. No.: **29/850,701**

FOREIGN PATENT DOCUMENTS

CN 304073644 * 3/2017
CN 304073646 * 3/2017

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- (51) **LOC (13) Cl.** **15-09**
- (52) **U.S. Cl.**
USPC **D15/124**
- (58) **Field of Classification Search**
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1/48; B07B 2201/04; B07B 2230/01;
B24B 31/00; B24B 31/02; B02C 17/02;
B02C 17/20; B02C 23/16
See application file for complete search history.

OTHER PUBLICATIONS

National Geographic, Hobby Rock Tumbler Kit, (first available Nov. 1, 2018), Amazon.com, URL:<<https://www.amazon.com/dp/B07G9MWHGJ>> (Year: 2018).*
(Continued)

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(56) **References Cited**

U.S. PATENT DOCUMENTS

- 105,711 A * 7/1870 Miller B24B 31/02
451/328
- 268,180 A * 11/1882 Butterfield B24B 31/02
451/328
- 295,867 A * 3/1884 Griffin B24B 31/02
285/190
- 1,508,345 A * 9/1924 Lupo, Jr. B24B 31/02
451/328
- 1,946,440 A * 2/1934 Herrmann B24B 31/02
366/228
- 2,939,455 A * 6/1960 Arnold A61H 15/0078
601/127
- 3,380,670 A * 4/1968 Beudin B02C 17/18
241/170
- 3,861,654 A * 1/1975 Singleton B24B 31/02
220/213

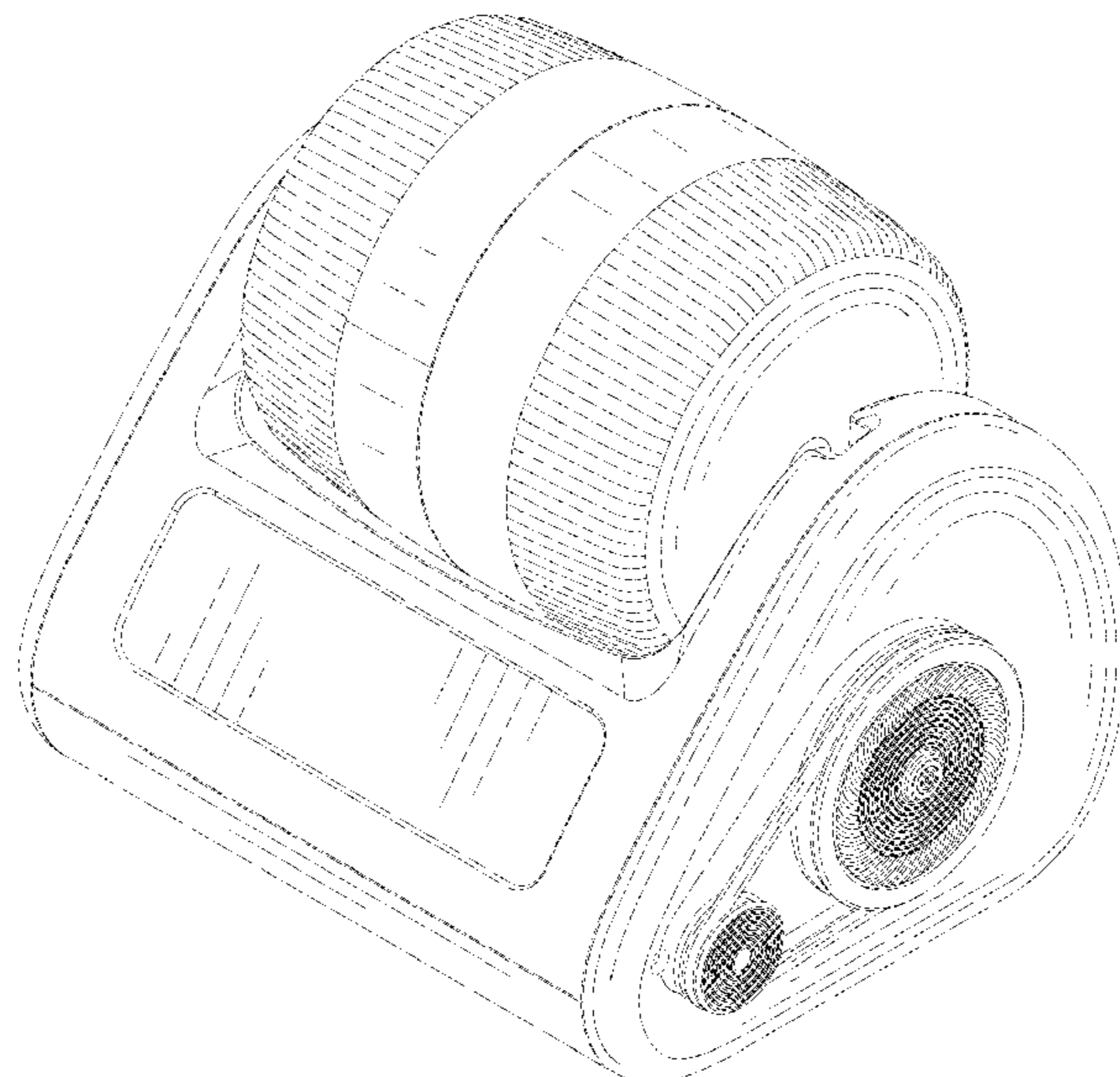
(57) **CLAIM**

The ornamental design for a rock tumbler, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a rock tumbler, showing my new design;
FIG. 2 is a rear perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a top view thereof; and,
FIG. 8 is a bottom view thereof.
The broken lines in the drawings illustrate the portions of the rock tumbler, which form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,580,740 A * 4/1986 Fauser B65H 18/20
242/541.6
5,586,925 A * 12/1996 DiNorcia, Sr. B24B 1/007
451/328
6,254,466 B1 * 7/2001 Mucciacciaro B24B 31/02
451/328
D757,136 S * 5/2016 Yu D15/124
9,421,664 B1 * 8/2016 Yu B24B 31/02
D868,125 S * 11/2019 Shu D15/144
D940,763 S * 1/2022 Zhao D15/124
2008/0296162 A1 * 12/2008 Shallcross A61N 2/12
204/660
2021/0260717 A1 * 8/2021 Gedlick B24B 31/02

OTHER PUBLICATIONS

Rachel M., "Quiet" Review for Dan and Darci Advanced Professional Rock Tumbler Kit, (review posted Aug. 15, 2019), Amazon.com, URL:<https://www.amazon.com/gp/customer-reviews/R3YY5S62O4DY7?ref=va_cr_lb> (Year: 2019).*

Ezvid Wiki, The 10 Best Rock Tumblers, (posted Oct. 10, 2020), Wiki.ezvid.com website, URL:<<https://wiki.ezvid.com/best-rock-tumblers>> (Year: 2020).*

* cited by examiner

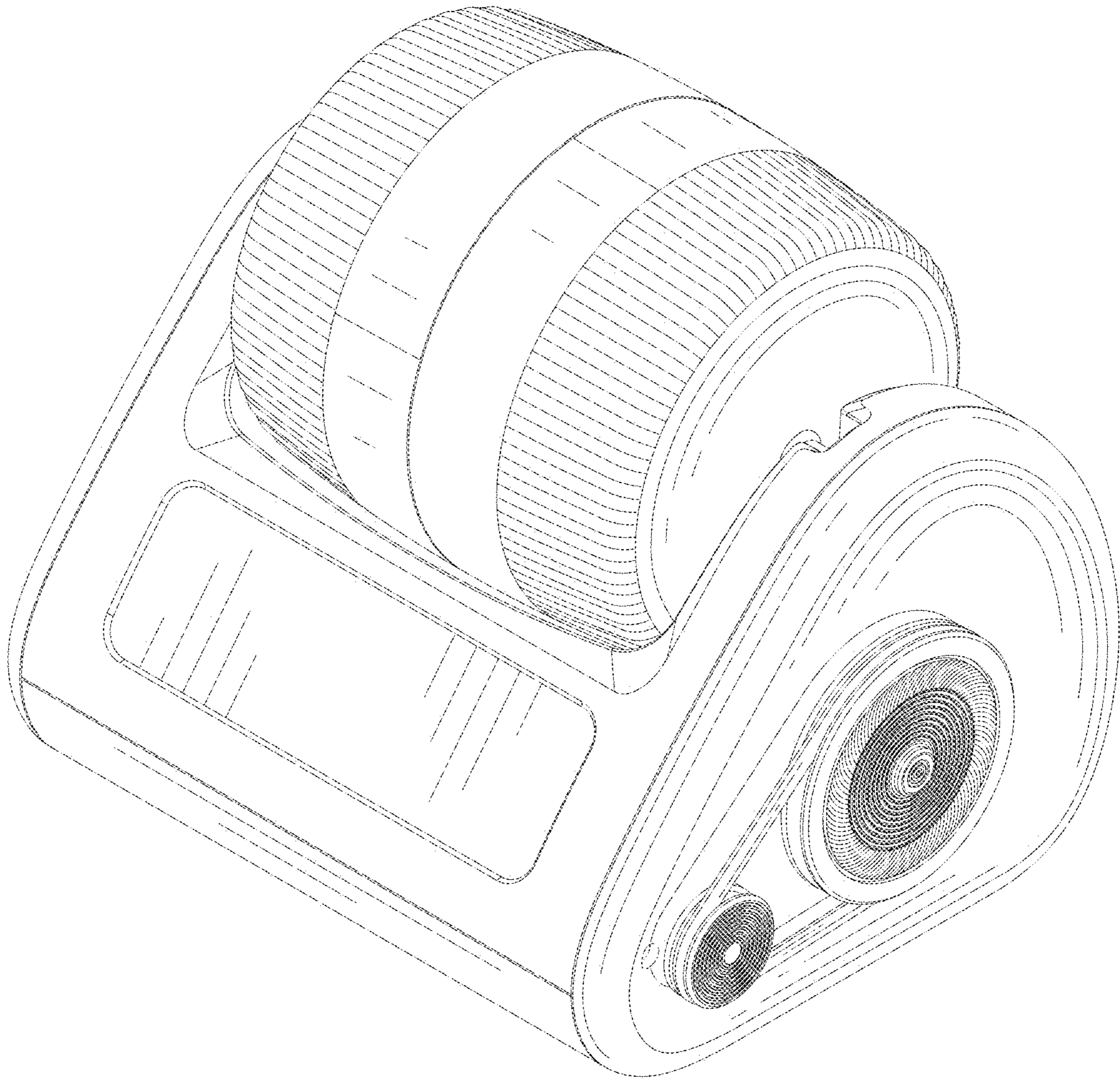


FIG. 1

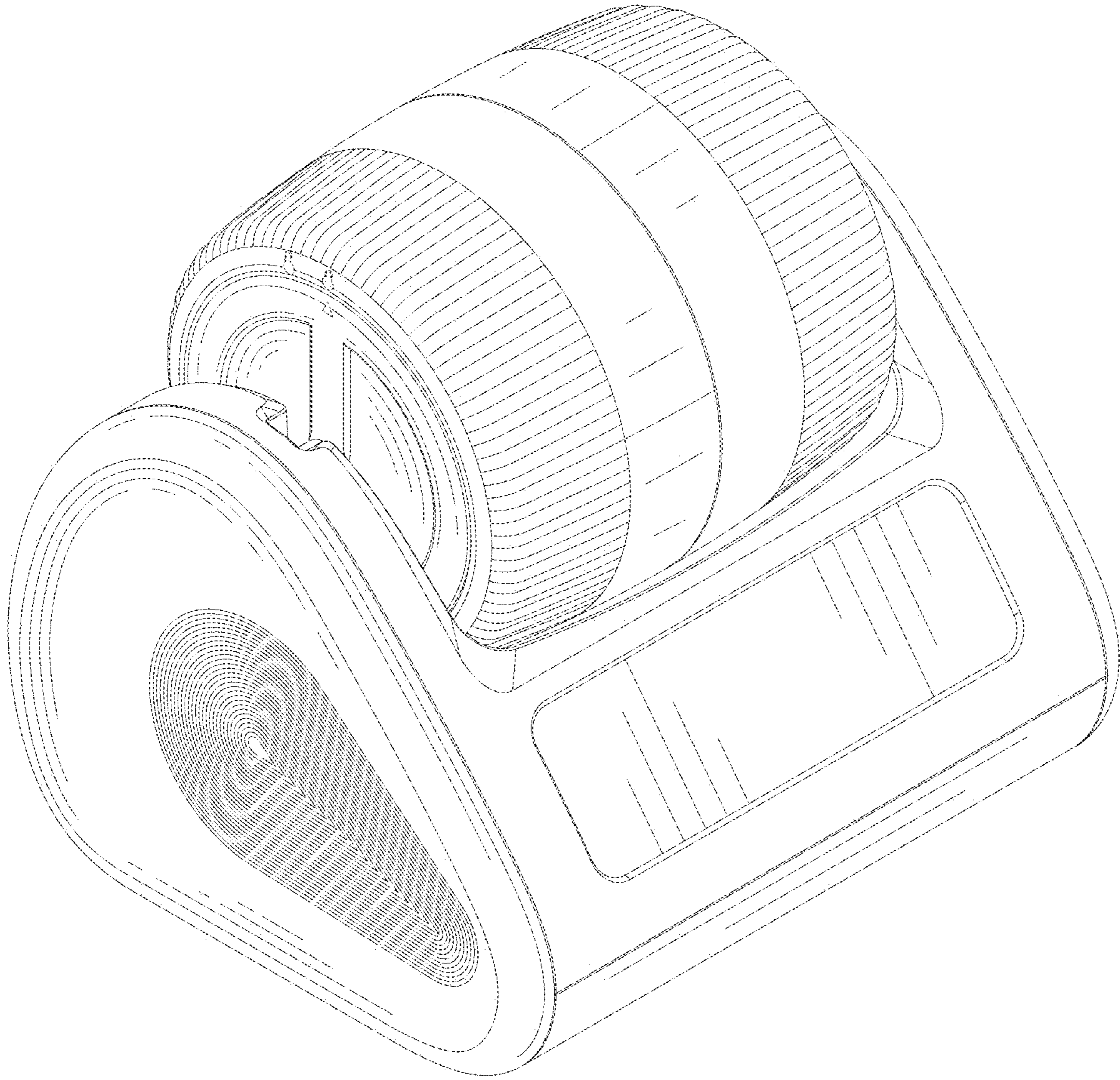


FIG. 2

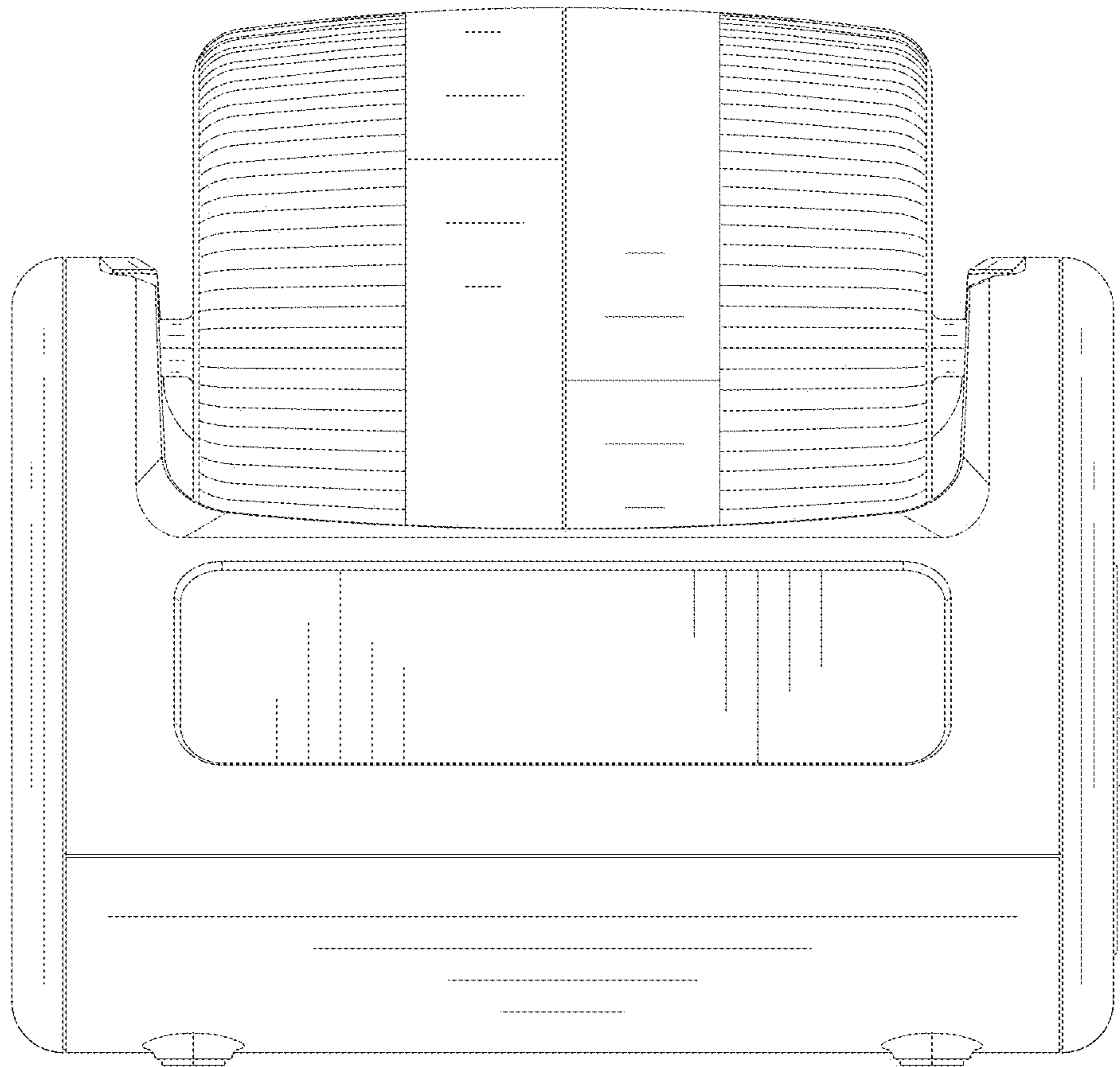


FIG. 3

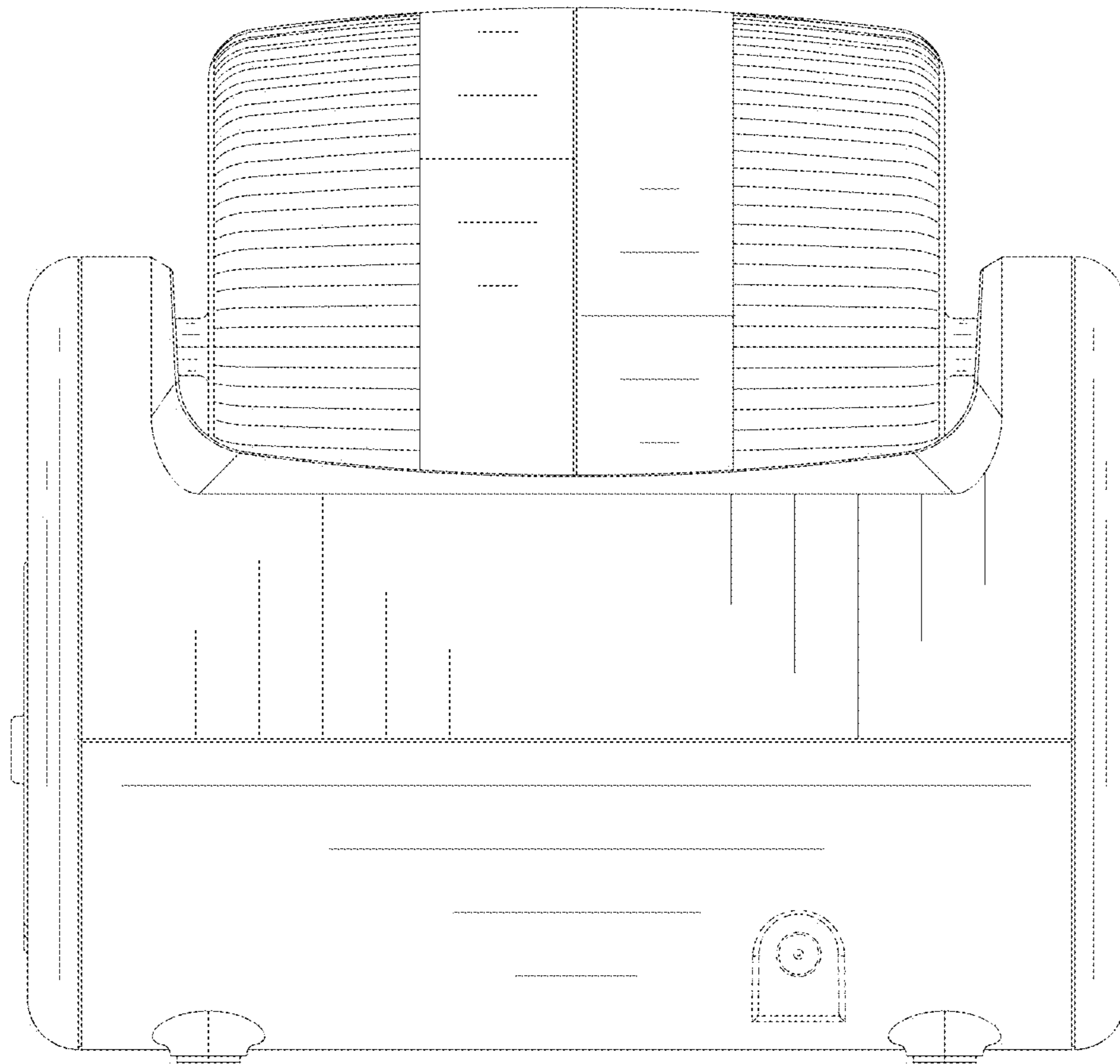


FIG. 4

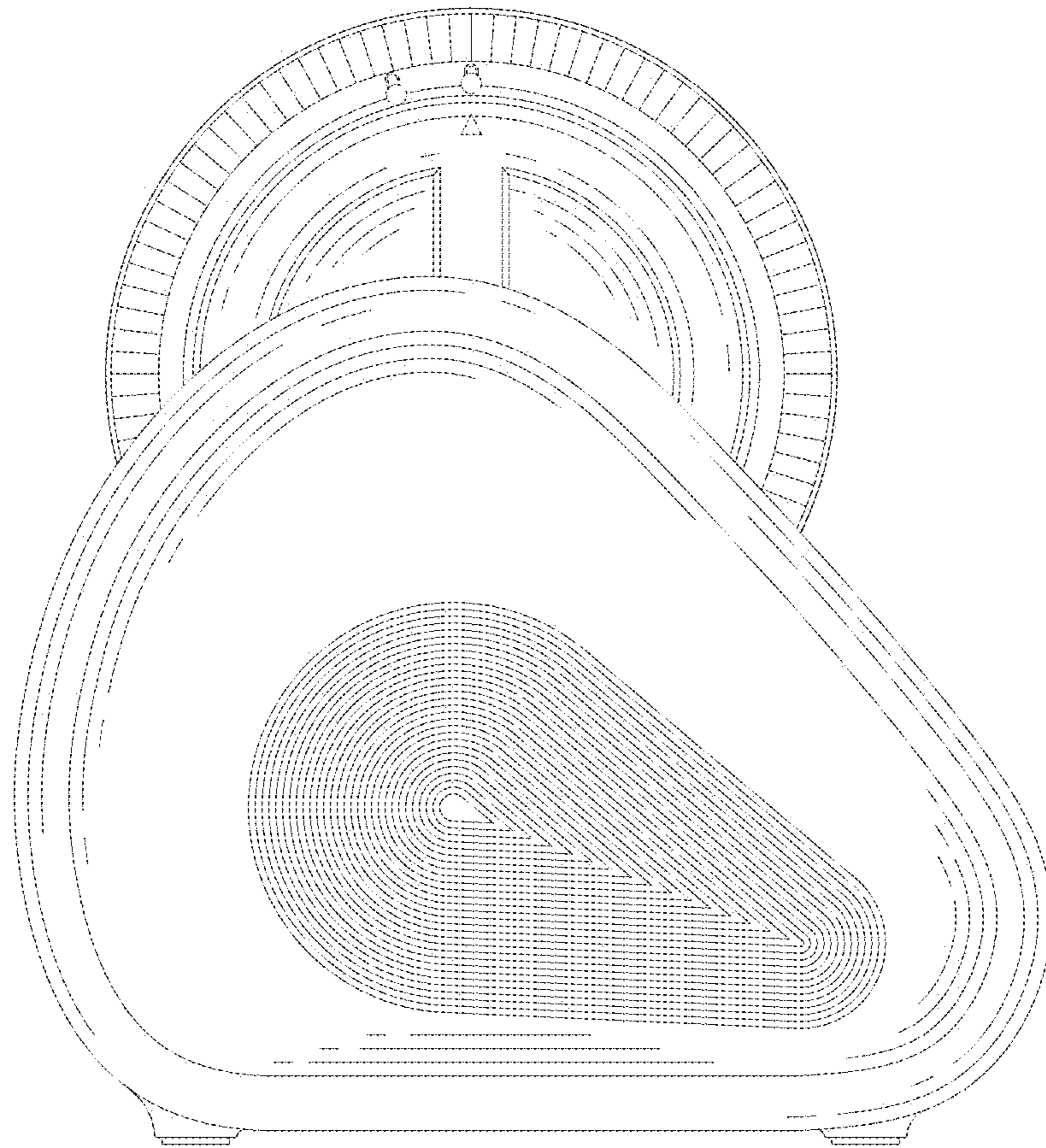


FIG. 5

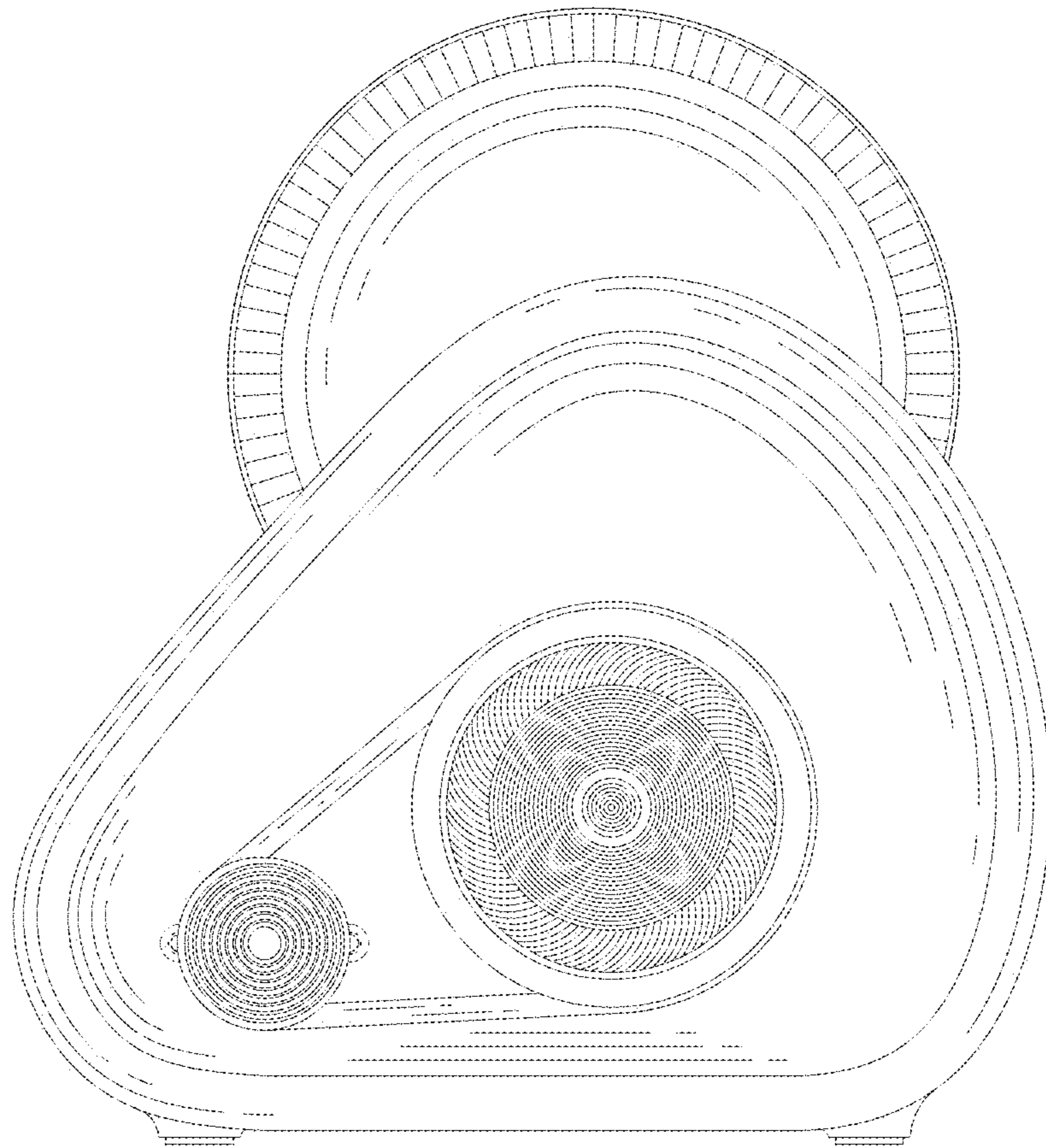


FIG. 6

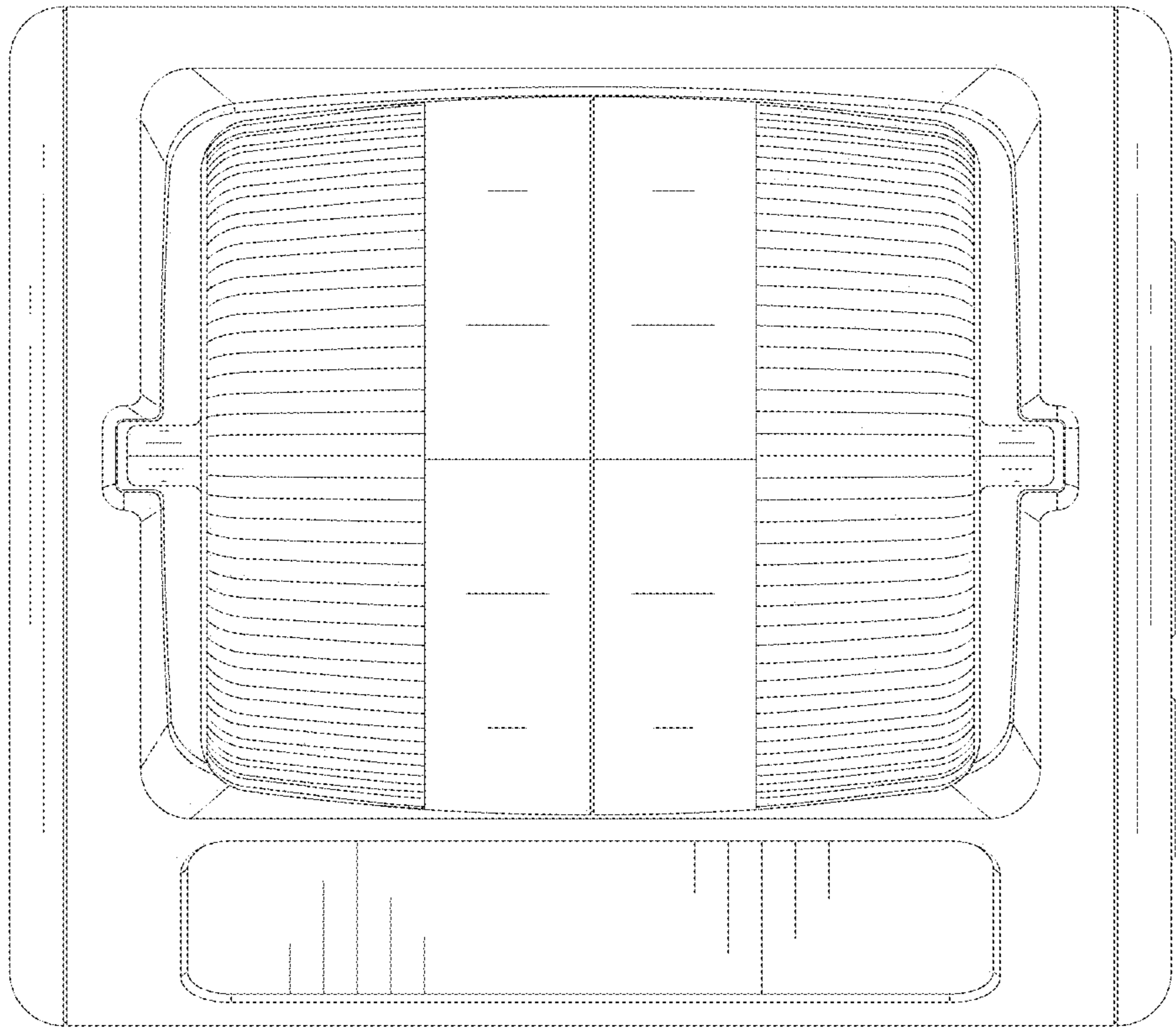


FIG. 7

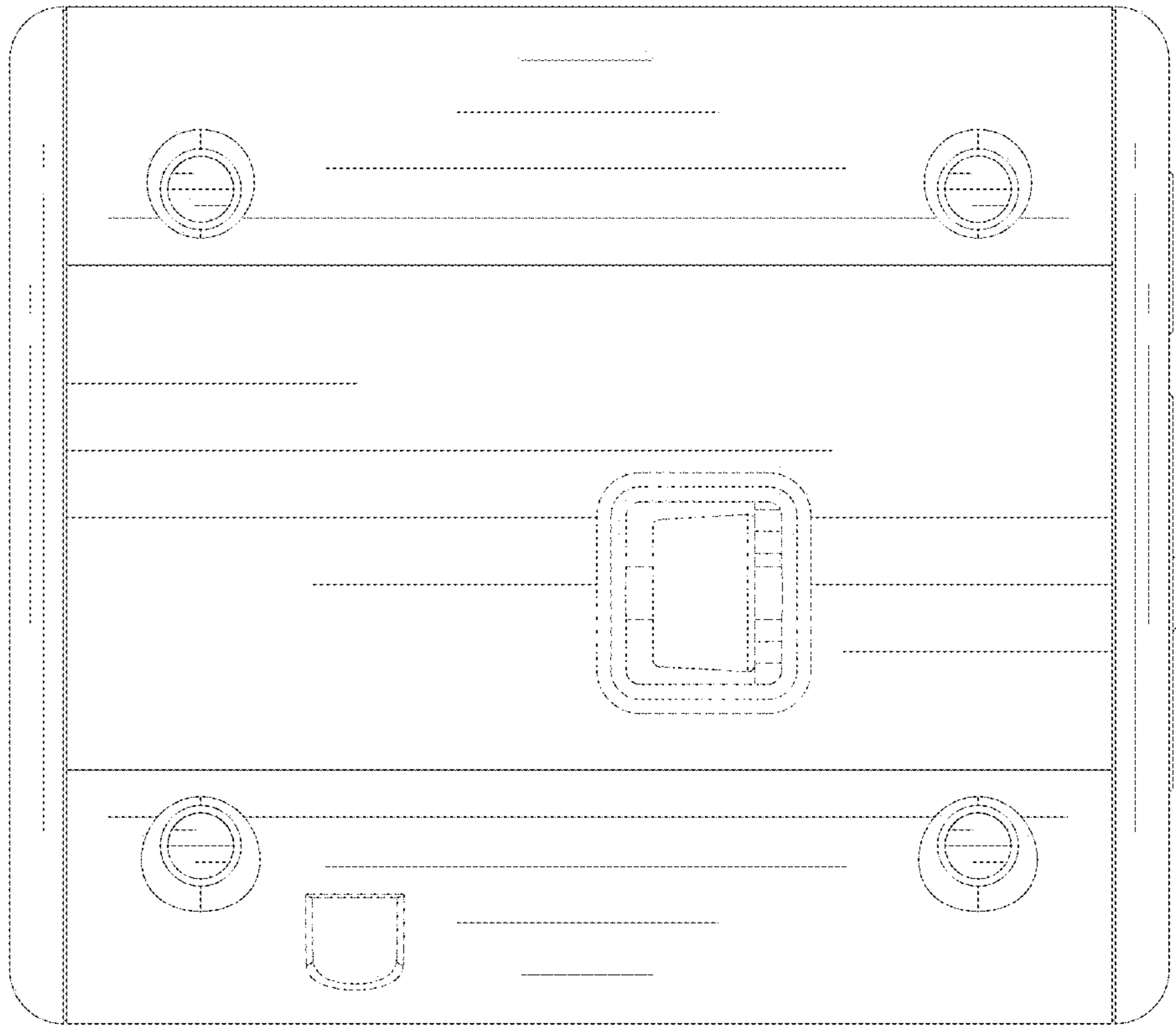


FIG. 8