



US0D1093150S

(12) **United States Design Patent** (10) **Patent No.: US D1,093,150 S**
Frosi (45) **Date of Patent: ** *Sep. 16, 2025**

- (54) **ROLLER SUPPORTING DEVICE**
- (71) Applicant: **SIDEL PARTICIPATIONS**,
Octeville-sur-Mer (FR)
- (72) Inventor: **Andrea Frosi**, Parma (IT)
- (73) Assignee: **SIDEL PARTICIPATIONS**,
Octeville-sur-Mer (FR)
- (*) Notice: This patent is subject to a terminal disclaimer.
- (**) Term: **15 Years**
- (21) Appl. No.: **29/850,685**
- (22) Filed: **Aug. 22, 2022**
- (51) **LOC (15) Cl.** **12-05**
- (52) **U.S. Cl.**
USPC **D34/35**
- (58) **Field of Classification Search**
USPC D24/216, 224, 227; D19/101, 102, 105,
D19/107, 75; D15/138, 141, 145;
D9/425, 432, 433, 439, 456, 455, 499;
D12/415, 425; D3/304, 307, 341;
D34/28, 29, 35
CPC B65D 81/133; B65D 5/48028; B65D
5/48024; B65D 85/305; B65D
2543/00027; B65D 2543/00194; B65D
2543/00296; B65D 2543/00398; F16G
15/12; F16G 17/08; B65G 17/08
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D140,494 S * 3/1945 Aaronson et al. D15/144
D238,755 S * 2/1976 Huff D9/711
3,982,684 A * 9/1976 David B65D 5/48028
229/120.26
4,227,641 A * 10/1980 Gardner B65D 5/48034
229/120.24
D274,406 S * 6/1984 Hung D9/418

- 5,328,033 A * 7/1994 Ptaschinski B65D 5/505
206/335
D360,421 S * 7/1995 Schulz D15/126
5,515,976 A * 5/1996 Moren B65D 81/133
206/592
D439,389 S * 3/2001 Simkowski D34/29
D501,679 S * 2/2005 Smith D24/227
D505,764 S * 5/2005 McDaniel D34/29
D608,378 S * 1/2010 Ettlin D15/138
D631,324 S * 1/2011 Azuma D8/354
D664,034 S * 7/2012 Goto D9/431

(Continued)

OTHER PUBLICATIONS

Wheaton Benchtop Roller Apparatuses: Site Visited (Nov. 13, 2023). Available from URL: https://www.daigger.com/wheaton-benchtop-roller-apparatuses?q=EF8629B&gad=1&gclid=EAlaQobChMIkur-t8XBggMVDOzlChIV8gsAEAYEYABEgISUPD_BwE.*

(Continued)

Primary Examiner — Catherine S Posthauer

(74) *Attorney, Agent, or Firm* — Blake T. Hudson;
Stephanie Davy-Jow

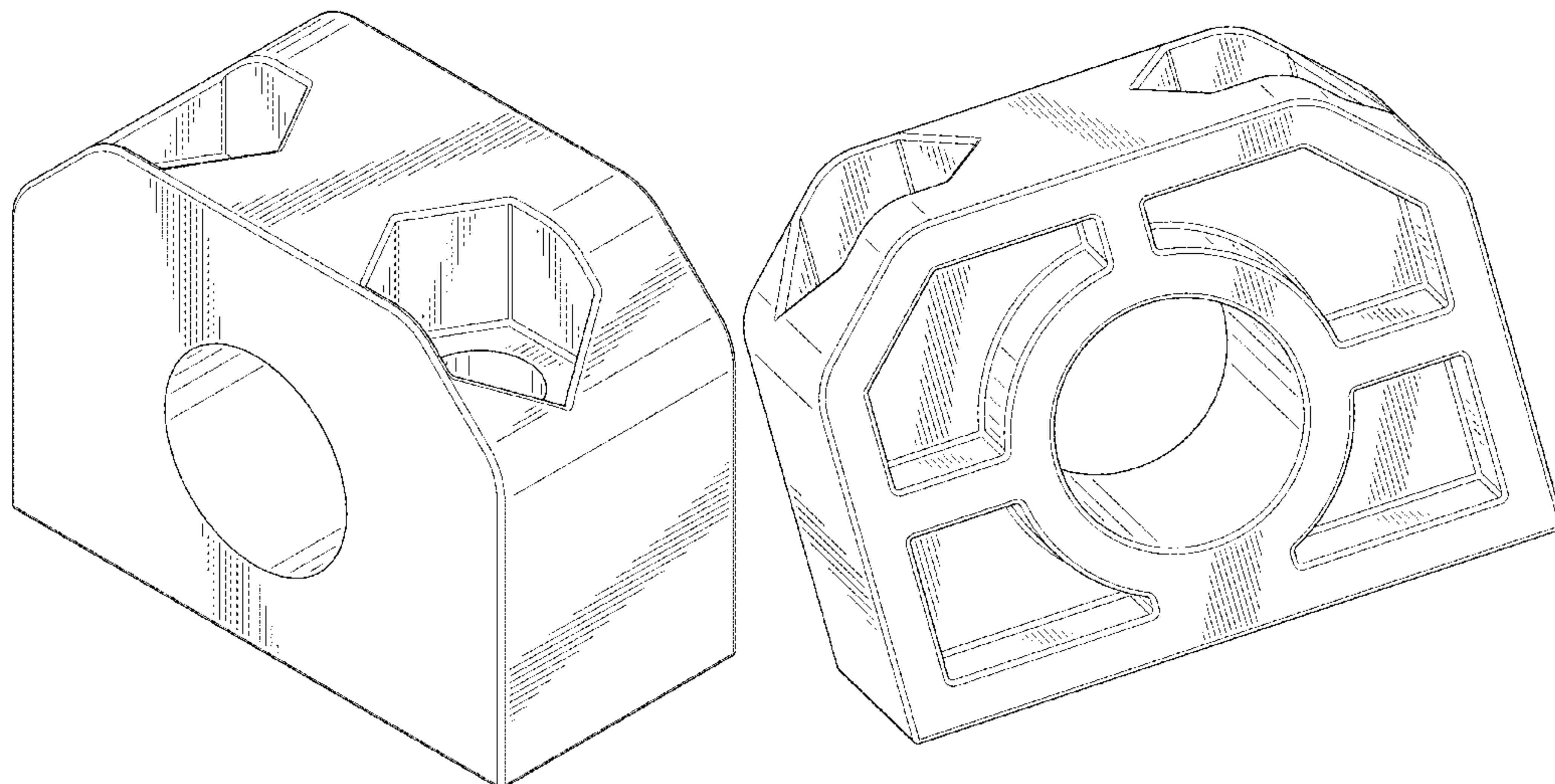
(57) **CLAIM**

The ornamental design for a roller supporting device, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a roller supporting device in accordance with my new design;
FIG. 2 is a front view thereof;
FIG. 3 is a back view thereof;
FIG. 4 is a left view thereof;
FIG. 5 is a right view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom view thereof;
FIG. 8 is a back perspective view thereof;
FIG. 9 is bottom front perspective view thereof; and,
FIG. 10 is bottom back perspective view thereof.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D709,541 S * 7/2014 Yu Chen D15/145
D721,465 S * 1/2015 Heinz B66F 7/246
D734,590 S * 7/2015 Evers F16G 15/12
D741,564 S * 10/2015 Schlothauer D34/28
D765,158 S * 8/2016 Taniguchi D15/138
D774,572 S * 12/2016 Guzman D15/138
D790,281 S * 6/2017 Hornung D7/555
D796,909 S * 9/2017 Gonzalez D7/555
D827,573 S * 9/2018 Pettay D8/396
10,179,692 B2 * 1/2019 Tremblay B65D 85/30
D912,364 S * 3/2021 Hogan D34/29
D915,201 S * 4/2021 Adams D9/456
D916,150 S * 4/2021 Nam D15/138
D926,843 S * 8/2021 Timonen D15/138
D935,884 S * 11/2021 Stanek D9/456
D989,434 S * 6/2023 McFarlane D25/119
D1,000,957 S * 10/2023 Cho D9/456

D1,001,051 S * 10/2023 Cho D9/456
D1,058,988 S * 1/2025 Kong D34/31
2006/0142103 A1 * 6/2006 Marshall B65G 17/08
474/212

OTHER PUBLICATIONS

Impact Cradle for Conveyor: Announced (Dec. 2, 2013; online).
Site Visited (Jun. 7, 2025). Available from URL: <https://www.machinedesign.com/mechanical-motion-systems/linear-motion/article/21833544/impact-cradle-protects-conveyors>.
Roller Conveyor Fastening Bracket: Site Visited (Jun. 7, 2025).
Available from URL: <https://www.item24.com/en-us/roller-conveyor-6-40x40-al-fastening-bracket-i-d30-66060>.
Conveyor Roller Mounting Bracket: Site Visited (Jun. 7, 2025).
Available from URL: <https://www.grainger.com/product/FATH-INC-Conveyor-Roller-Mounting-Bracket-55FC69>.
Side Mounting Top Bracket: Site Visited (Jun. 7, 2025). Available
from URL: <https://www.slideways.com/products/side-mounting-top-bracket?variant=9245814652972>.

* cited by examiner

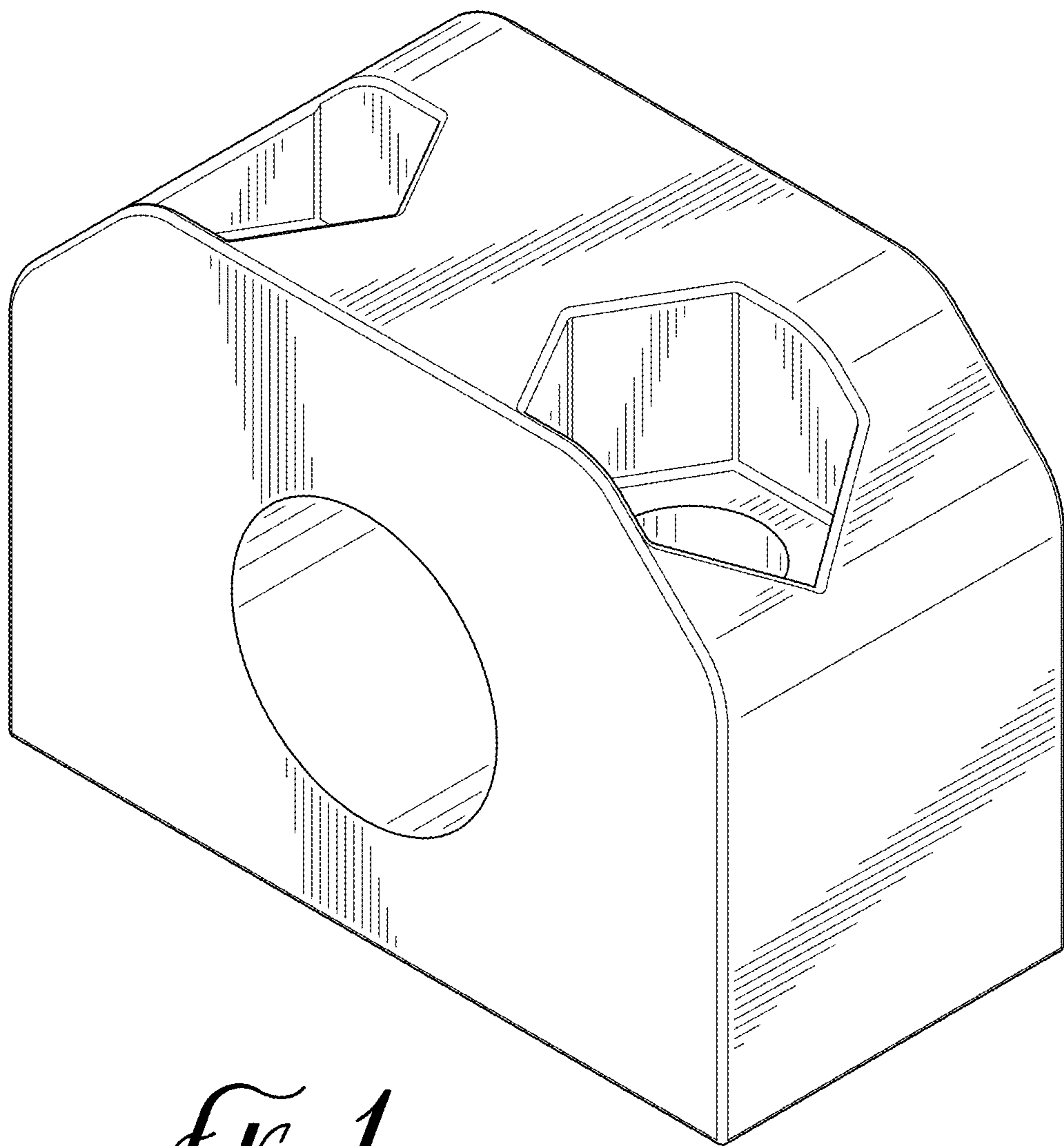


FIG. 1

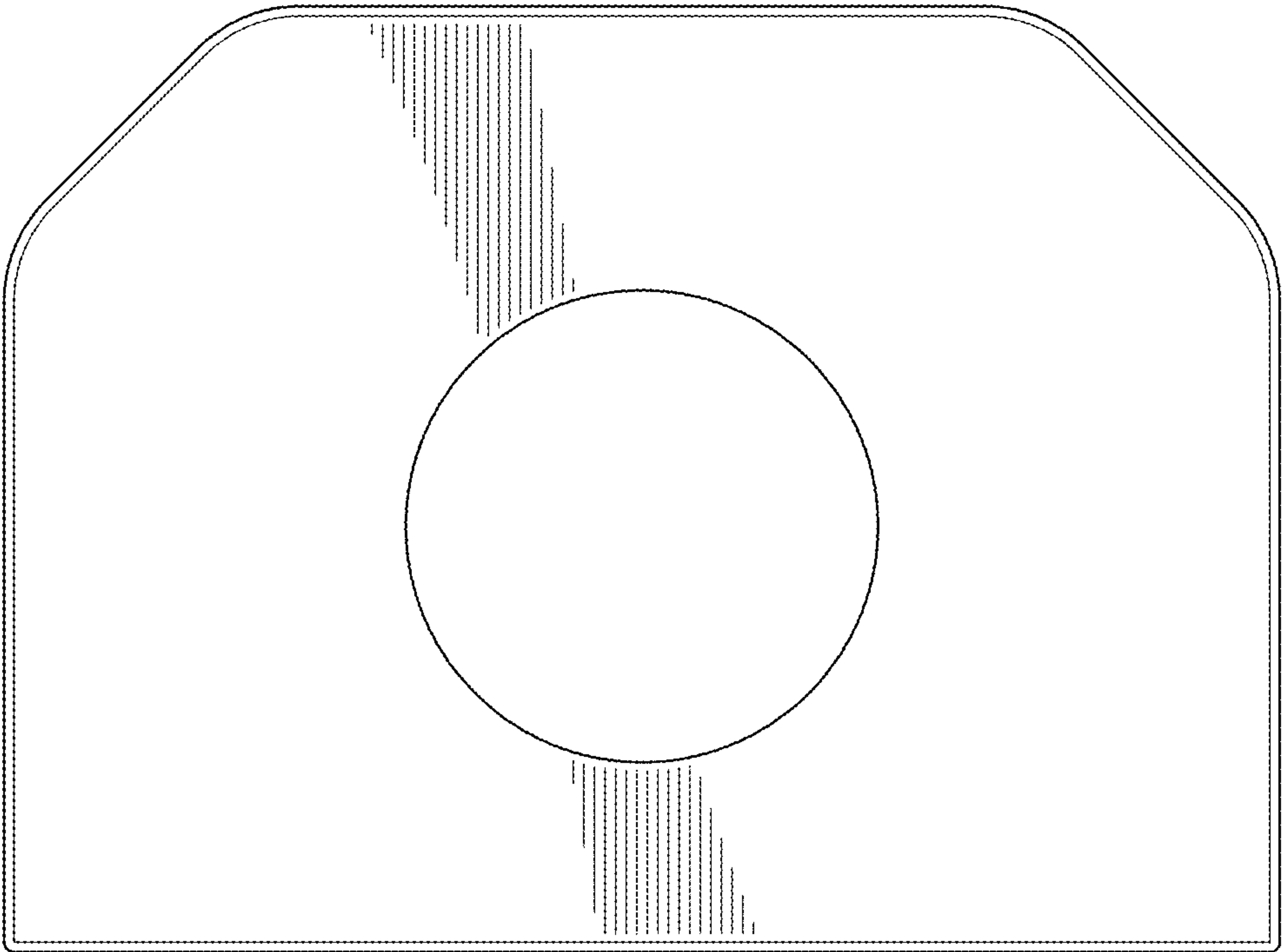


FIG. 2

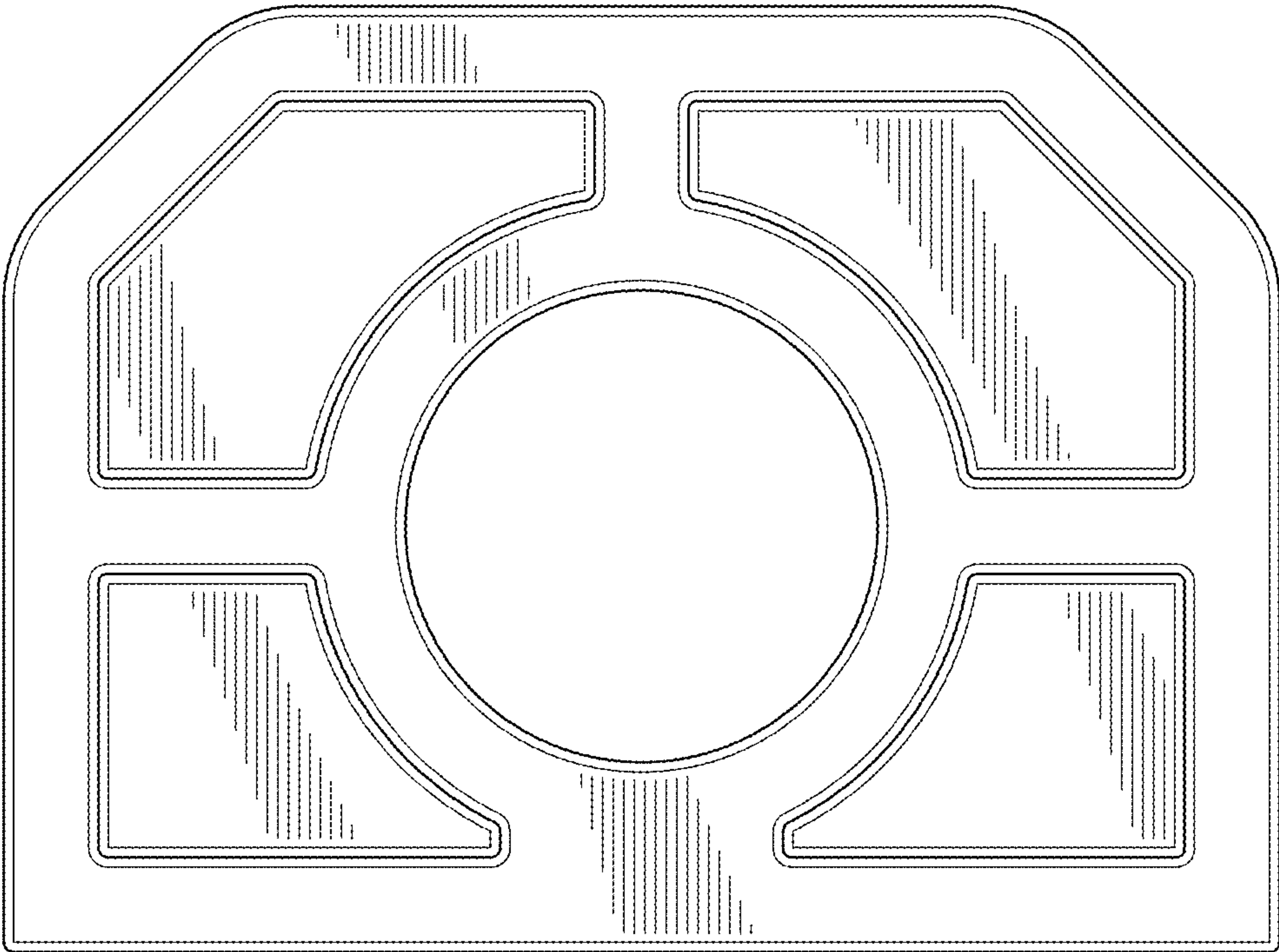


FIG. 3

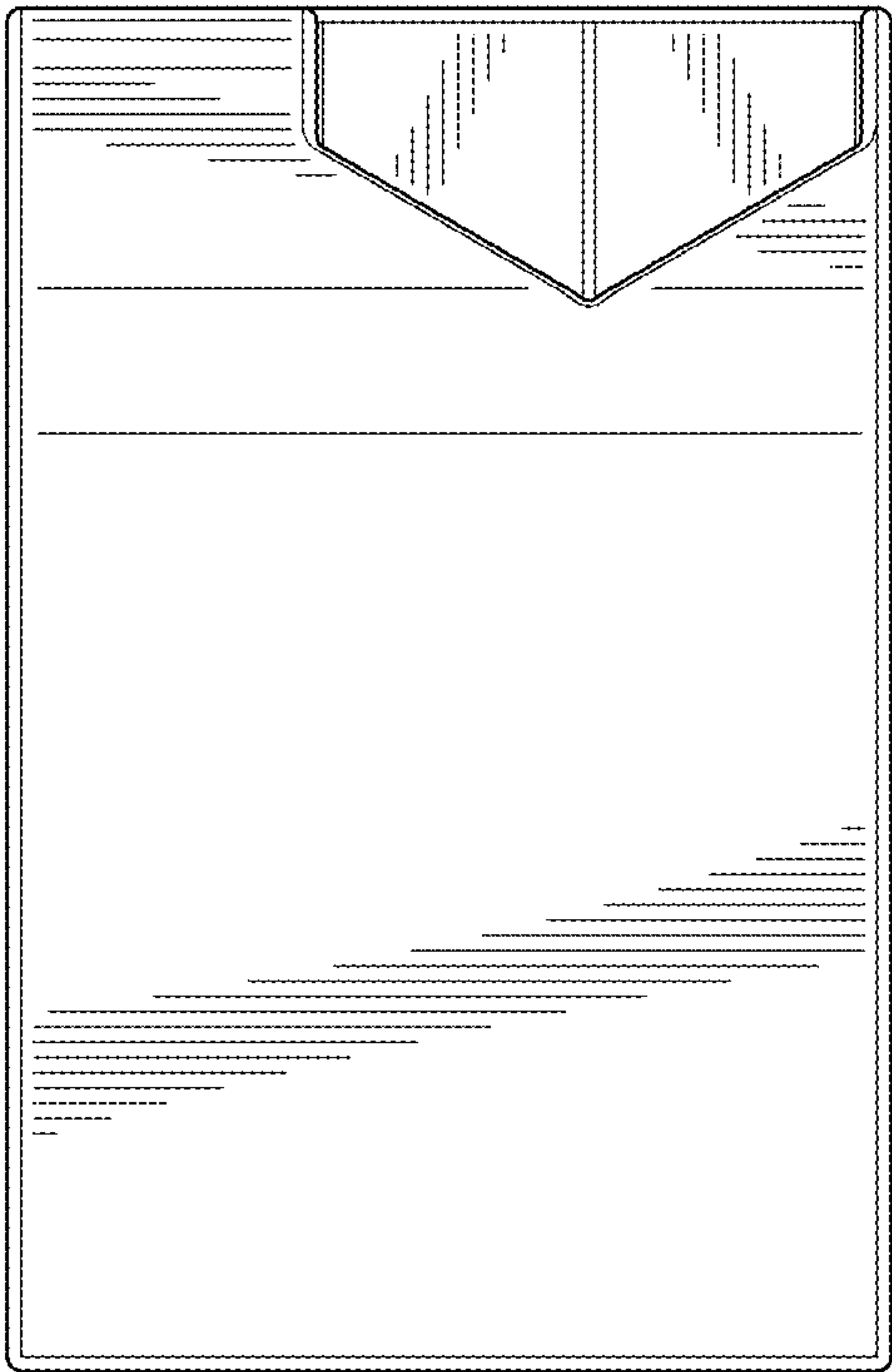


FIG. 4

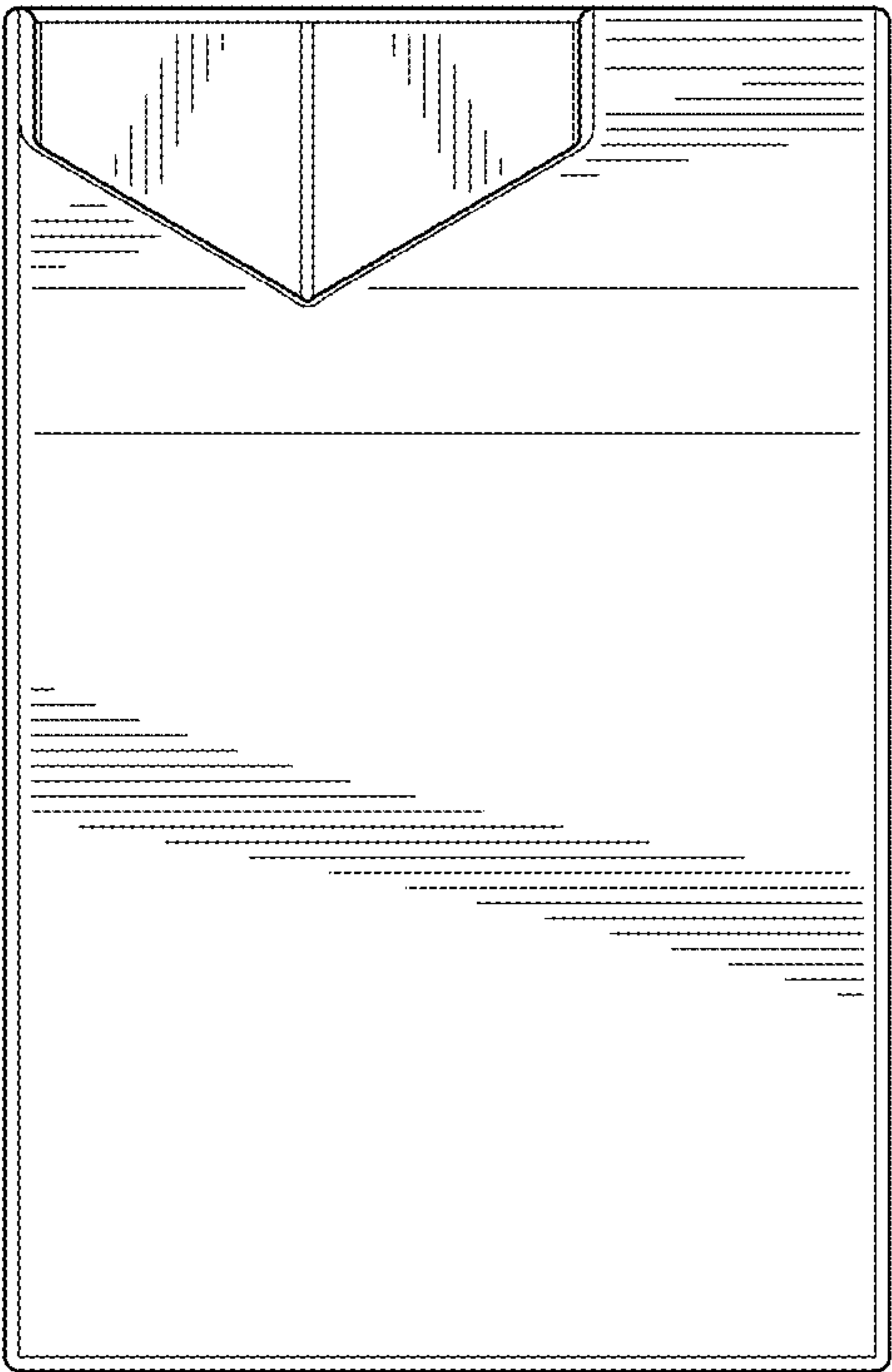


FIG. 5

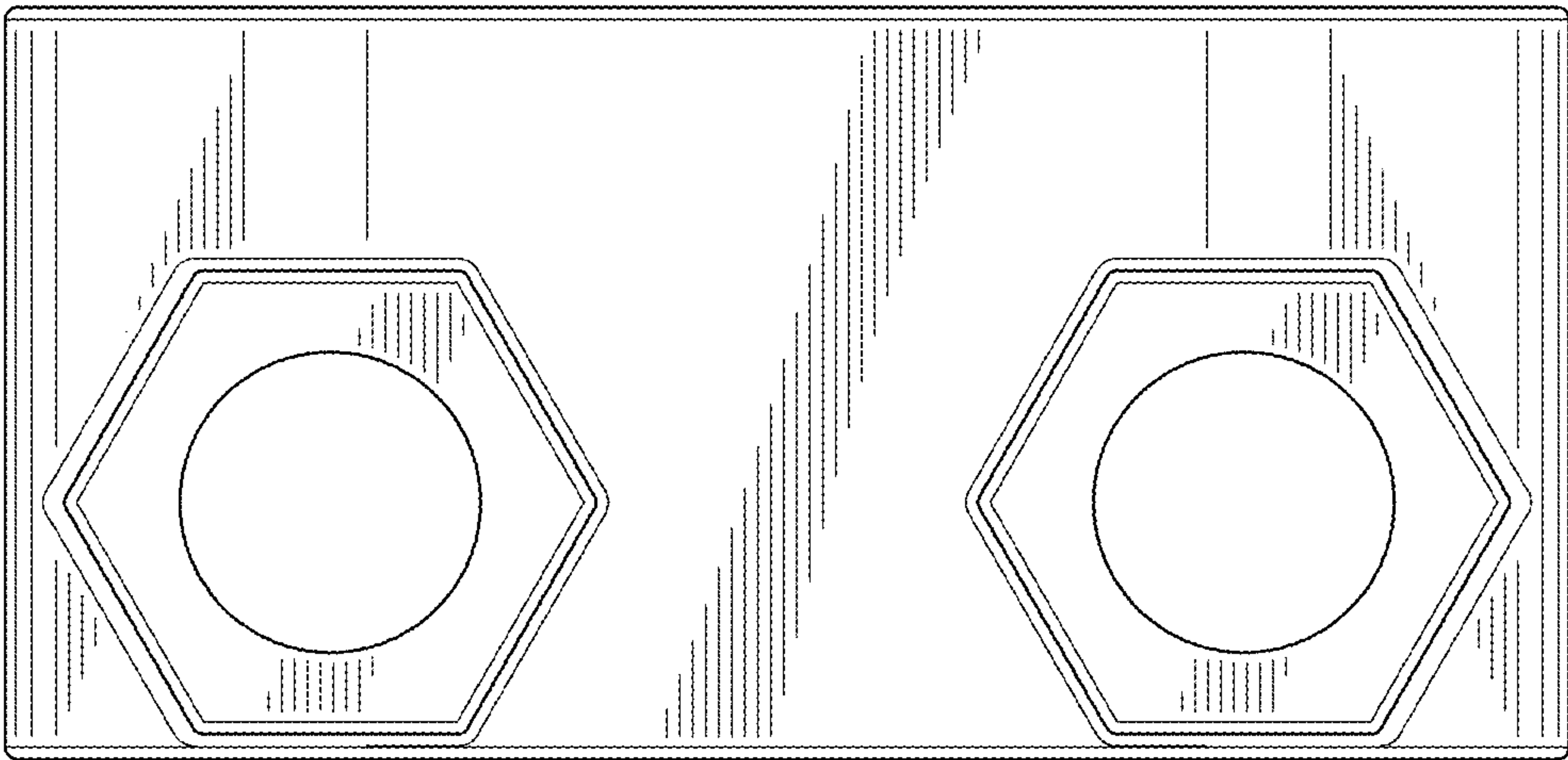


FIG. 6

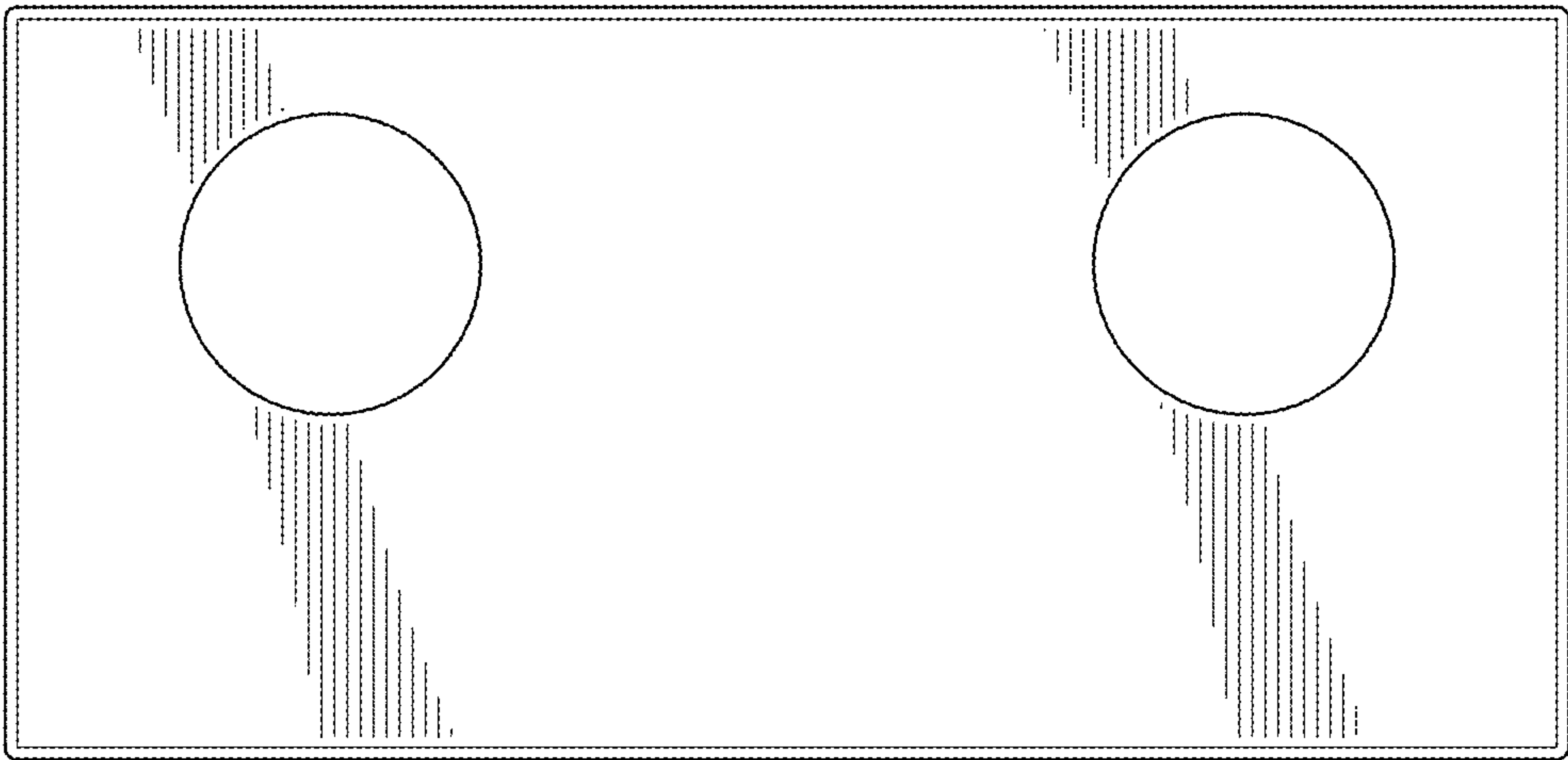


FIG. 7

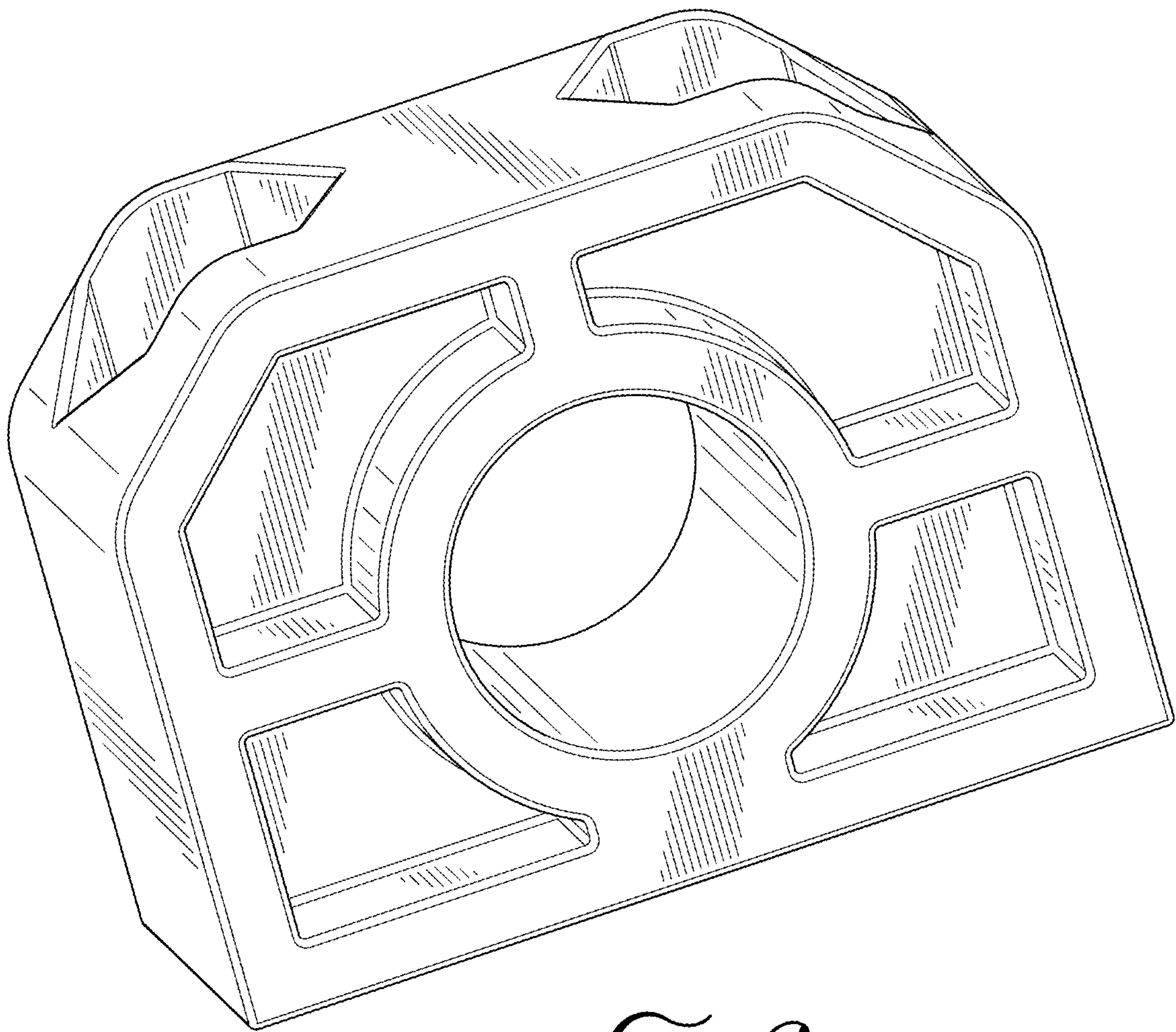


Fig. 8

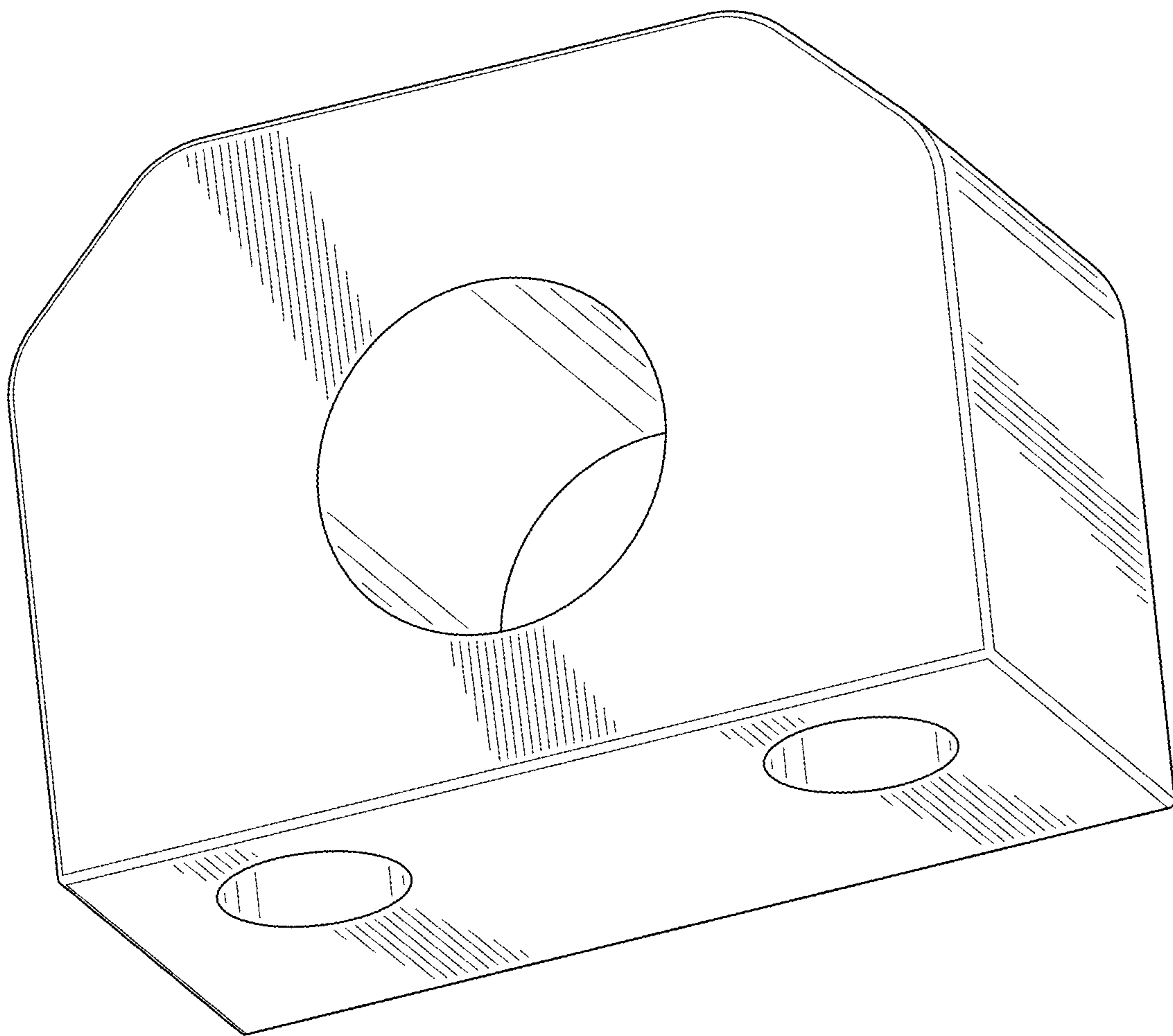


FIG. 9

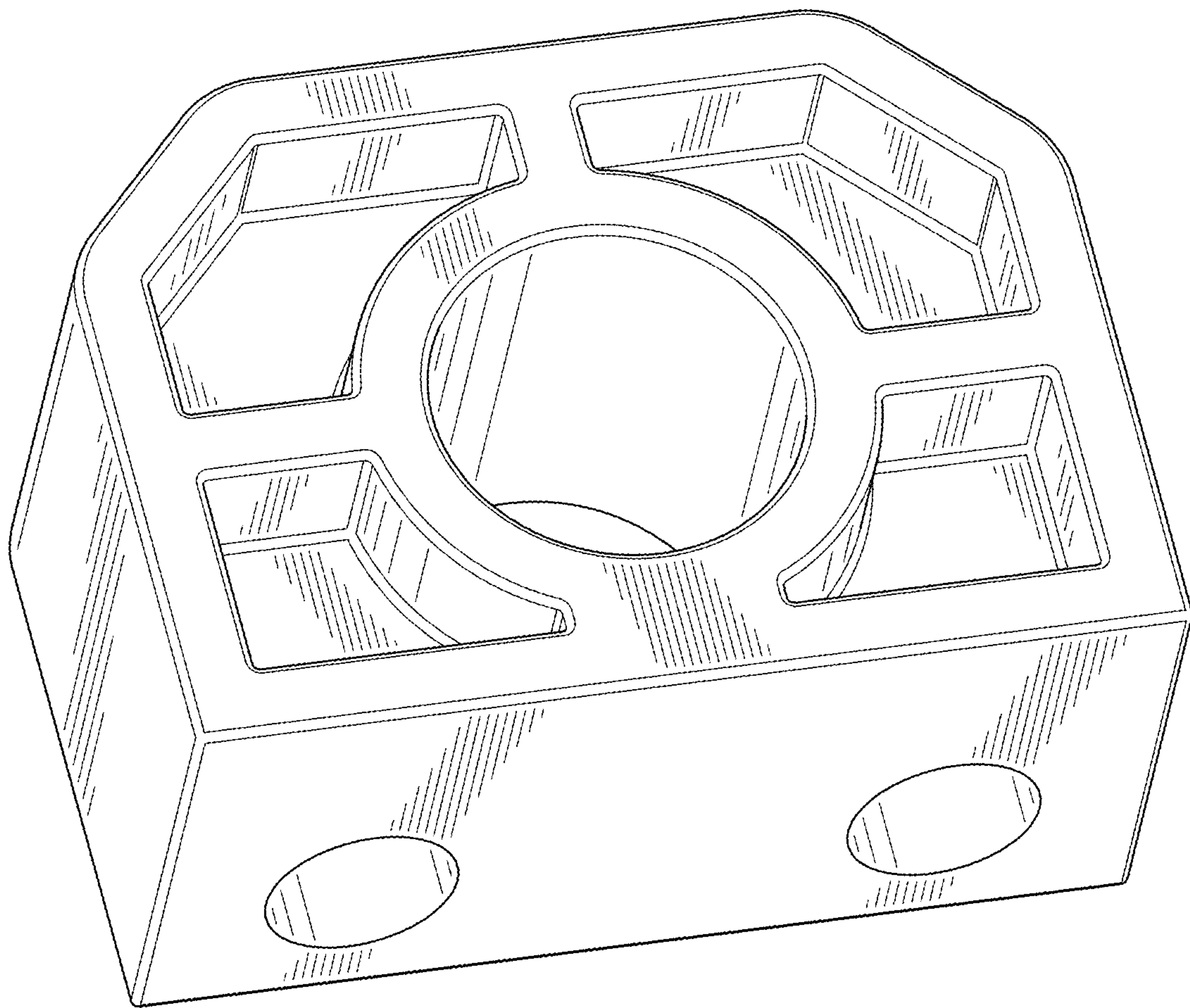


FIG. 10