



US00D859961S

(12) **United States Design Patent**
Fretz et al.

(10) **Patent No.:** **US D859,961 S**

(45) **Date of Patent:** **** Sep. 17, 2019**

(54) **RIGGING SHACKLE**

(71) Applicant: **Warn Industries, Inc.**, Clackamas, OR
(US)

(72) Inventors: **Darren G. Fretz**, Oregon City, OR
(US); **Jackson C. Wang**, Happy Valley,
OR (US); **Carole L. Gayley**, Portland,
OR (US)

(73) Assignee: **WARN INDUSTRIES, INC.**,
Clackamas, OR (US)

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

(21) Appl. No.: **29/654,312**

(22) Filed: **Jun. 22, 2018**

(51) **LOC (12) Cl.** **09-06**

(52) **U.S. Cl.**
USPC **D8/356**

(58) **Field of Classification Search**
USPC D8/356, 354, 349; D30/139; D11/218
CPC F15B 21/048; F16L 17/06; B66D 1/36
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,009,108	A *	11/1911	Soss	.....	E05D 3/12 16/366
2,566,872	A *	9/1951	Bernhardt	.....	E05D 5/128 16/250
3,972,090	A *	8/1976	Holmes	.....	E05D 11/1014 16/321
4,102,124	A *	7/1978	Swager	.....	F16G 15/06 403/154
4,881,298	A *	11/1989	Tumbull	.....	E05D 5/062 16/266
5,046,881	A *	9/1991	Swager	.....	F16D 25/082 403/154
5,114,260	A *	5/1992	Hart	.....	F16G 15/06 403/154

D351,552	S *	10/1994	Williams	.....	D8/356
5,433,547	A *	7/1995	Hart	.....	F16B 39/32 403/154
D373,902	S *	9/1996	Wang	.....	D3/318
D374,391	S *	10/1996	Mele	.....	D8/323
D433,617	S *	11/2000	Gray, Jr.	.....	D8/356
D520,337	S *	5/2006	Alvarado	.....	D8/323
D548,044	S *	8/2007	Tang	.....	D8/323
D604,143	S *	11/2009	Shnayder	.....	D8/349
D616,286	S *	5/2010	Foresman	.....	D8/354

(Continued)

OTHER PUBLICATIONS

Related U.S. Appl. No. 62/580,289, filed Nov. 1, 2017 entitled
“Systems for Winch Rope Interfaces and Recovery Rigging Mount-
able to a Winch Fairlead and/or Vehicle Bumper”.

Primary Examiner — Cynthia R Underwood

(74) *Attorney, Agent, or Firm* — K&L Gates LLP

(57) **CLAIM**

The ornamental design for a rigging shackle, as shown and
described.

DESCRIPTION

FIG. 1 illustrates a perspective view of a rigging shackle
embodying the invention.

FIG. 2 illustrates a front view of the rigging shackle shown
in FIG. 1.

FIG. 3 illustrates a rear view of the rigging shackle shown
in FIG. 1.

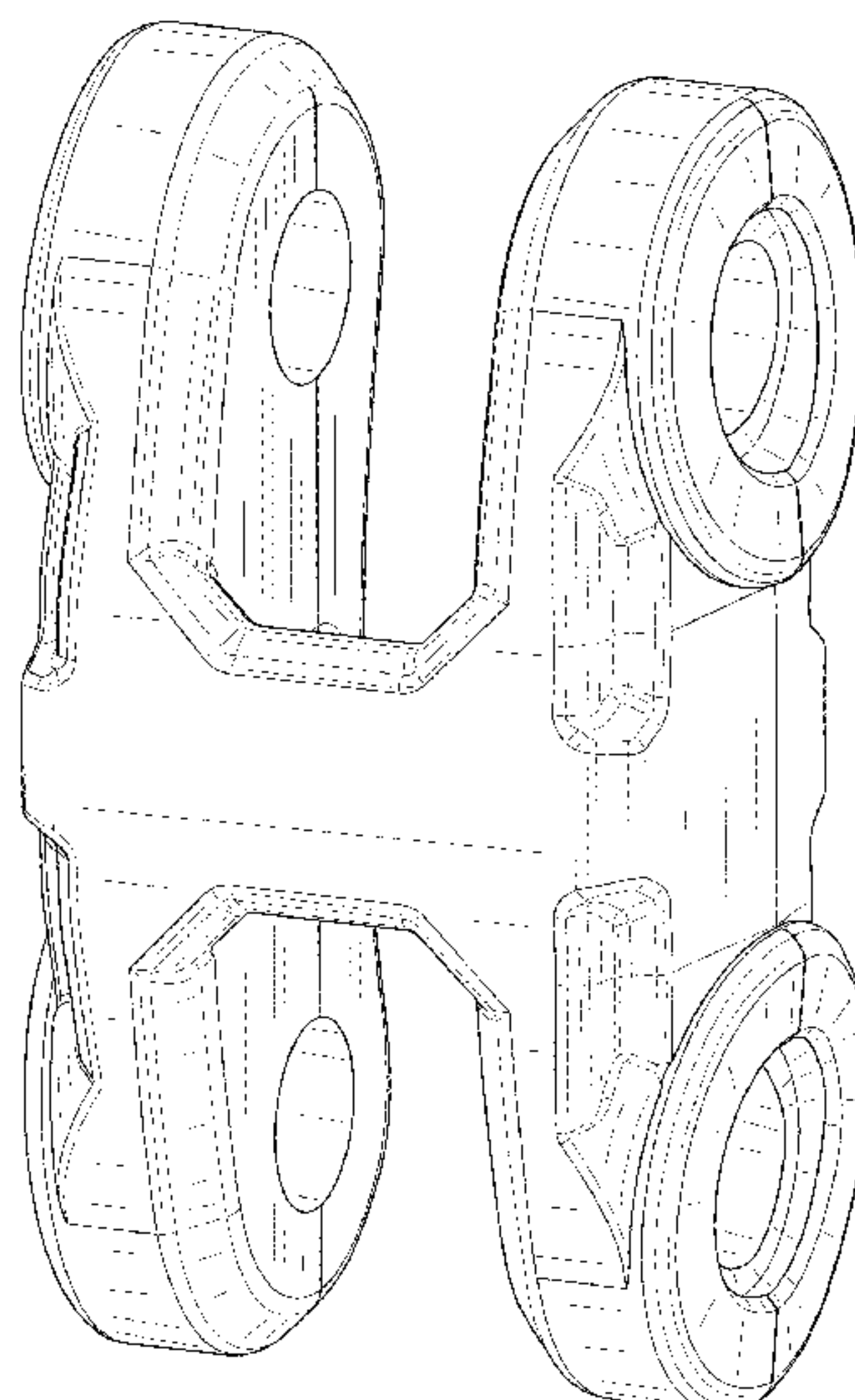
FIG. 4 illustrates a left side view of the rigging shackle
shown in FIG. 1.

FIG. 5 illustrates a right side view of the rigging shackle
shown in FIG. 1.

FIG. 6 illustrates a top view of the rigging shackle shown in
FIG. 1; and,

FIG. 7 illustrates a bottom view of the rigging shackle
shown in FIG. 1.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

8,474,795 B2 * 7/2013 Tjader F16L 55/1658
254/280
D698,621 S * 2/2014 Moreau D8/333
D703,098 S * 4/2014 Quan D11/218
D707,529 S * 6/2014 Fretz D8/330
D709,546 S * 7/2014 Goff D16/245
D732,377 S * 6/2015 Miszewski D8/356
9,266,702 B2 * 2/2016 Fretz B66D 1/02
9,315,139 B2 * 4/2016 Hyslop B60P 3/1066
9,315,364 B2 * 4/2016 Averill B66D 1/16
D763,665 S * 8/2016 Hallare D8/356
D768,461 S * 10/2016 Mirick D8/323
9,604,826 B2 * 3/2017 Fretz B66D 1/02
D793,209 S * 8/2017 Galpchian D8/349
D804,936 S * 12/2017 Smith D8/356
D807,733 S * 1/2018 Fretz D8/356
D808,244 S * 1/2018 Fraijo D8/327
D811,195 S * 2/2018 Wang D8/323
D814,286 S * 4/2018 Chapman D8/396
D826,700 S * 8/2018 Feng D8/356
10,273,125 B2 * 4/2019 Hall B66D 1/00
2008/0265543 A1 * 10/2008 Davis B60P 3/1066
280/414.1
2016/0096709 A1 * 4/2016 Averill B66D 1/12
254/267
2016/0107728 A1 * 4/2016 Brenner B63B 21/10
254/389

* cited by examiner

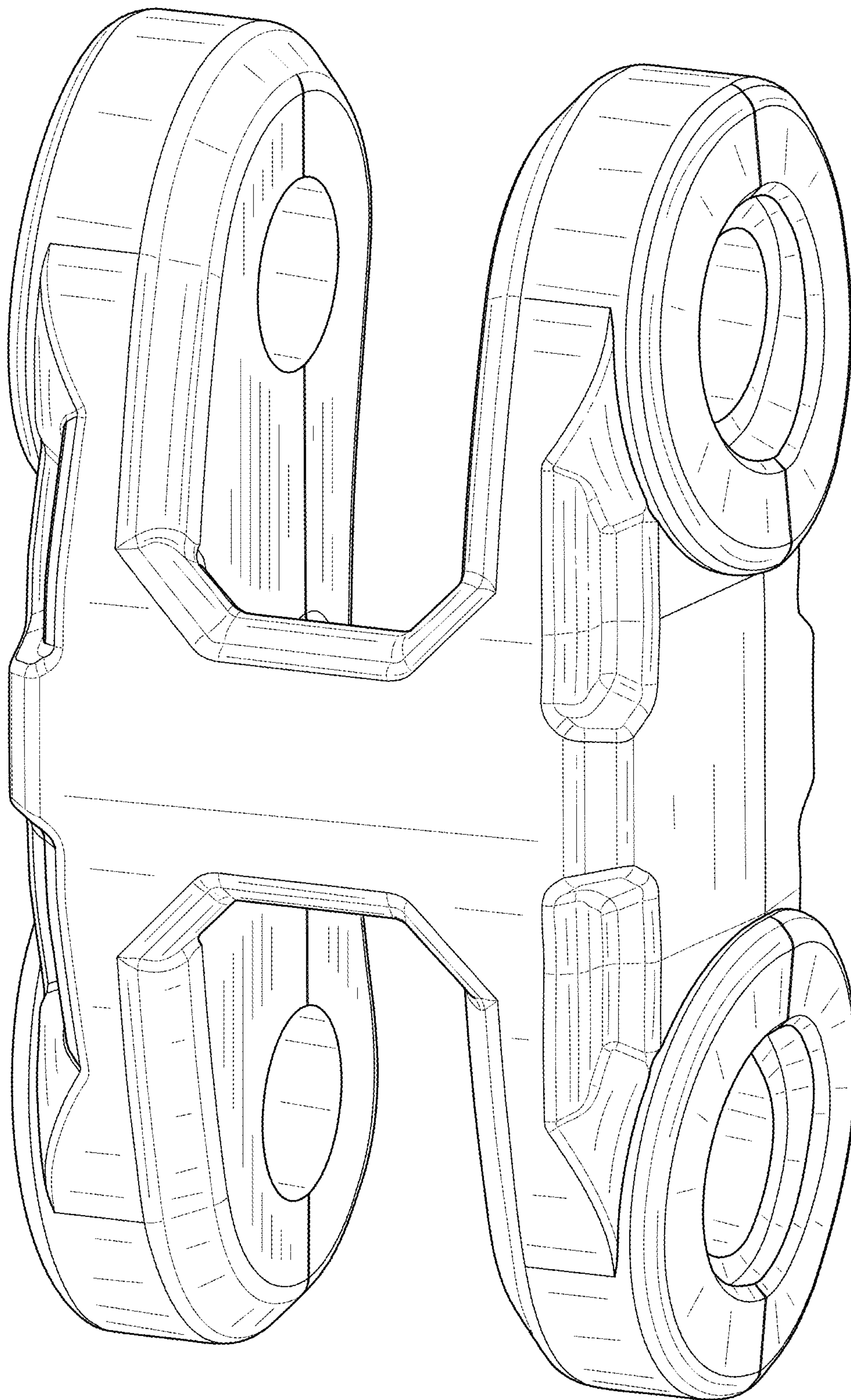


FIG. 1

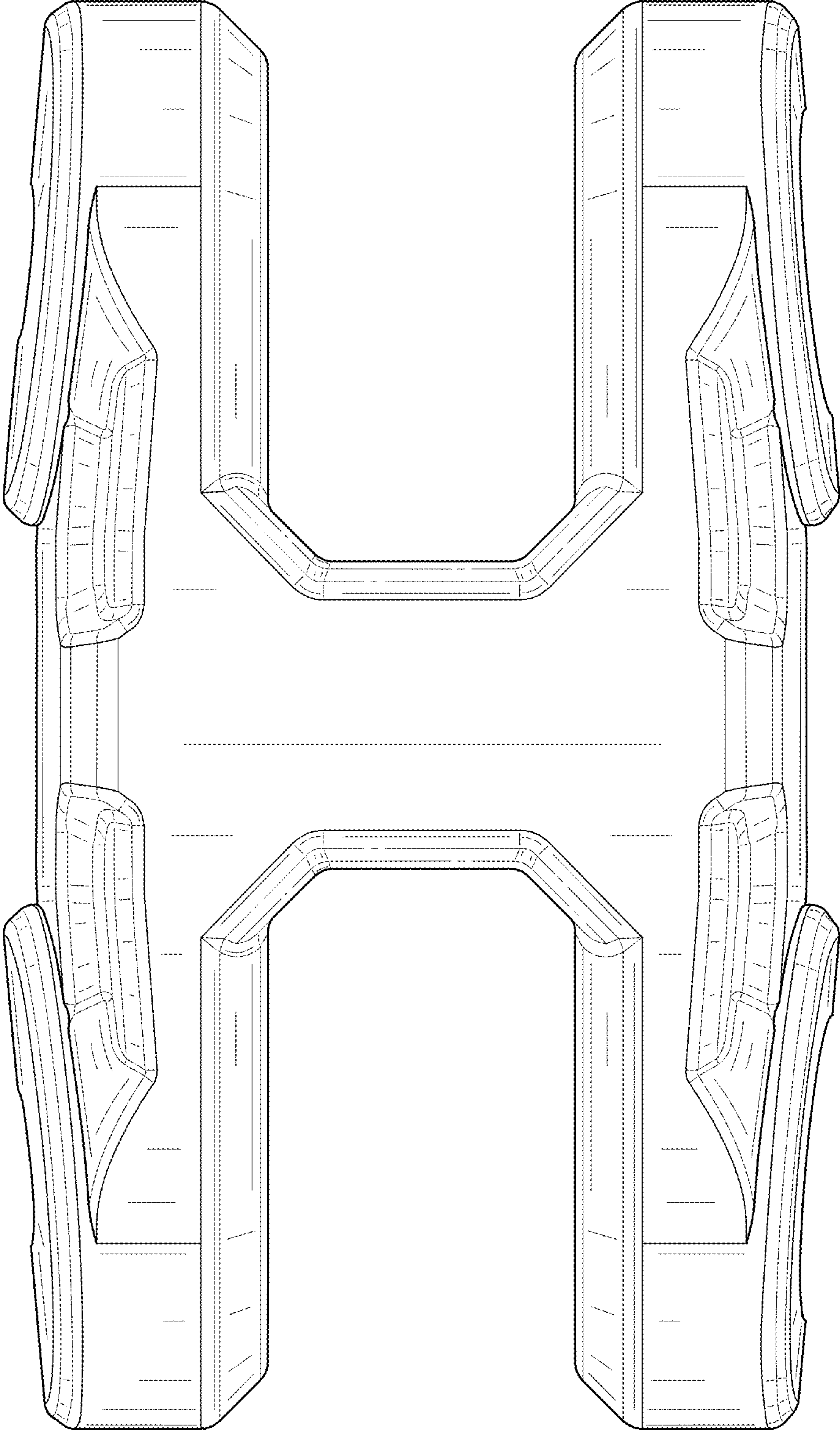


FIG. 2

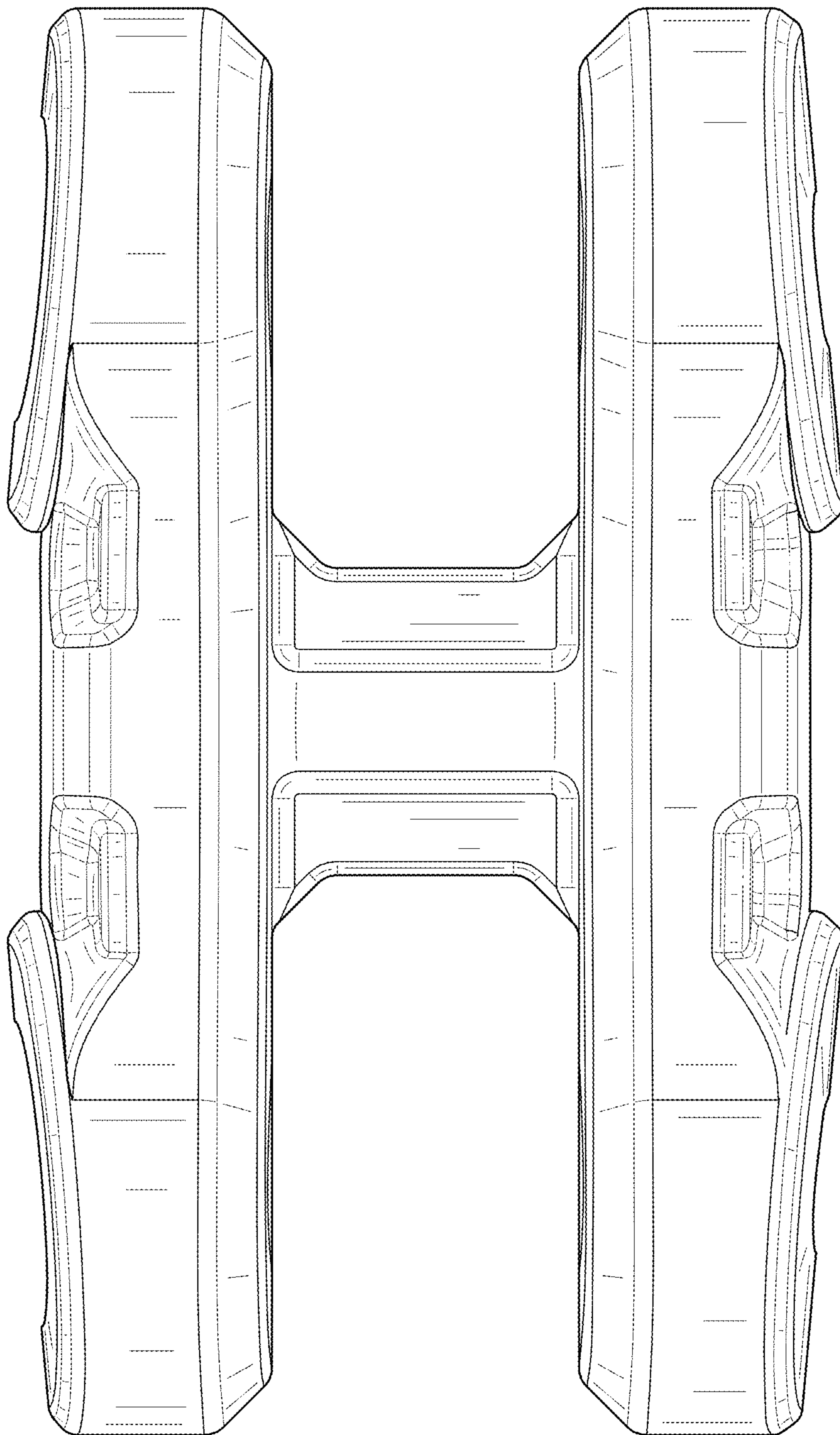


FIG. 3

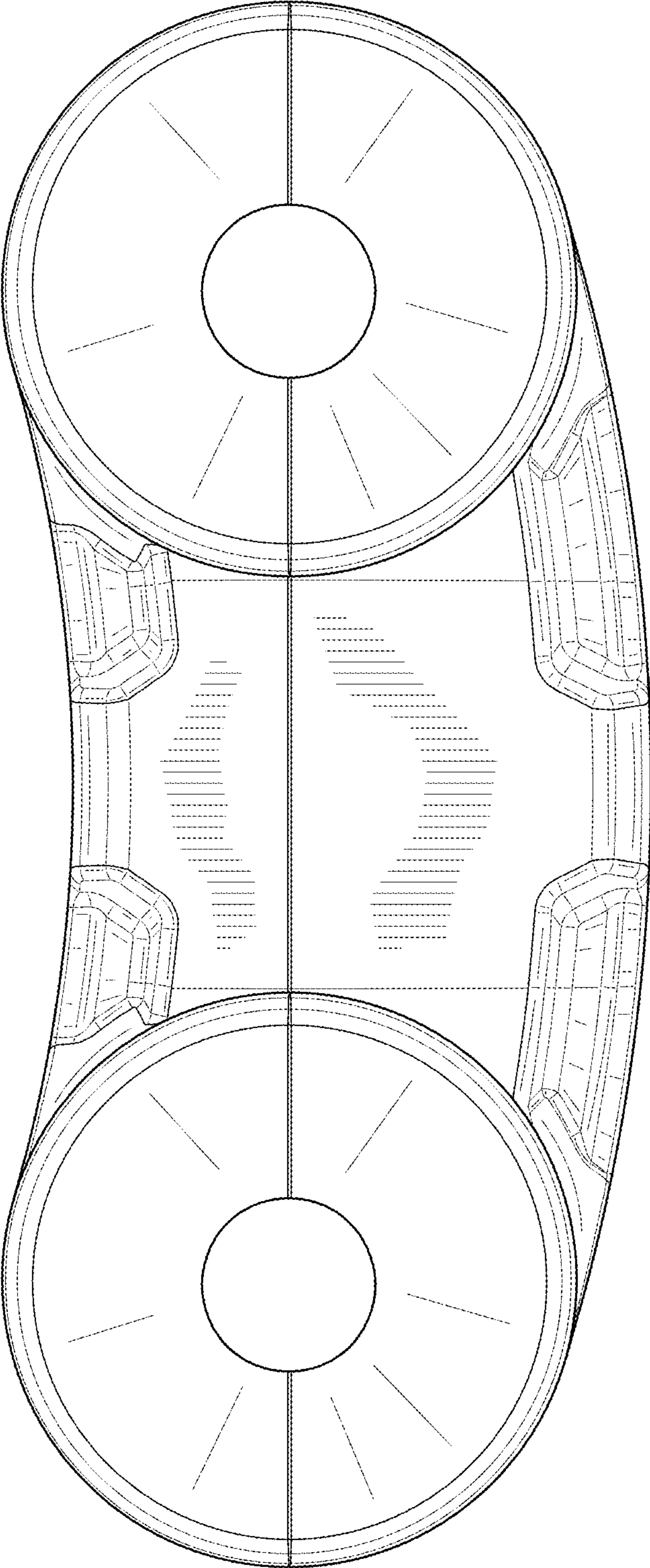


FIG. 4

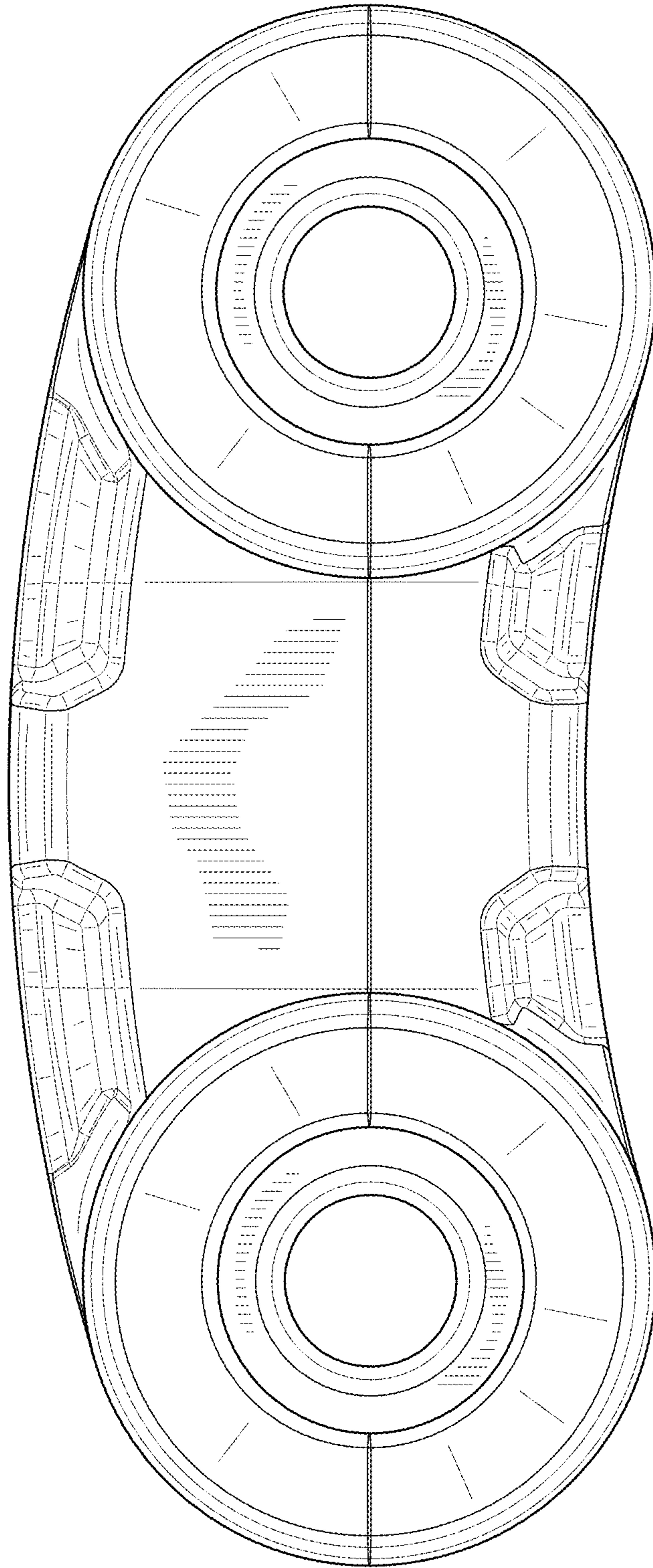


FIG. 5

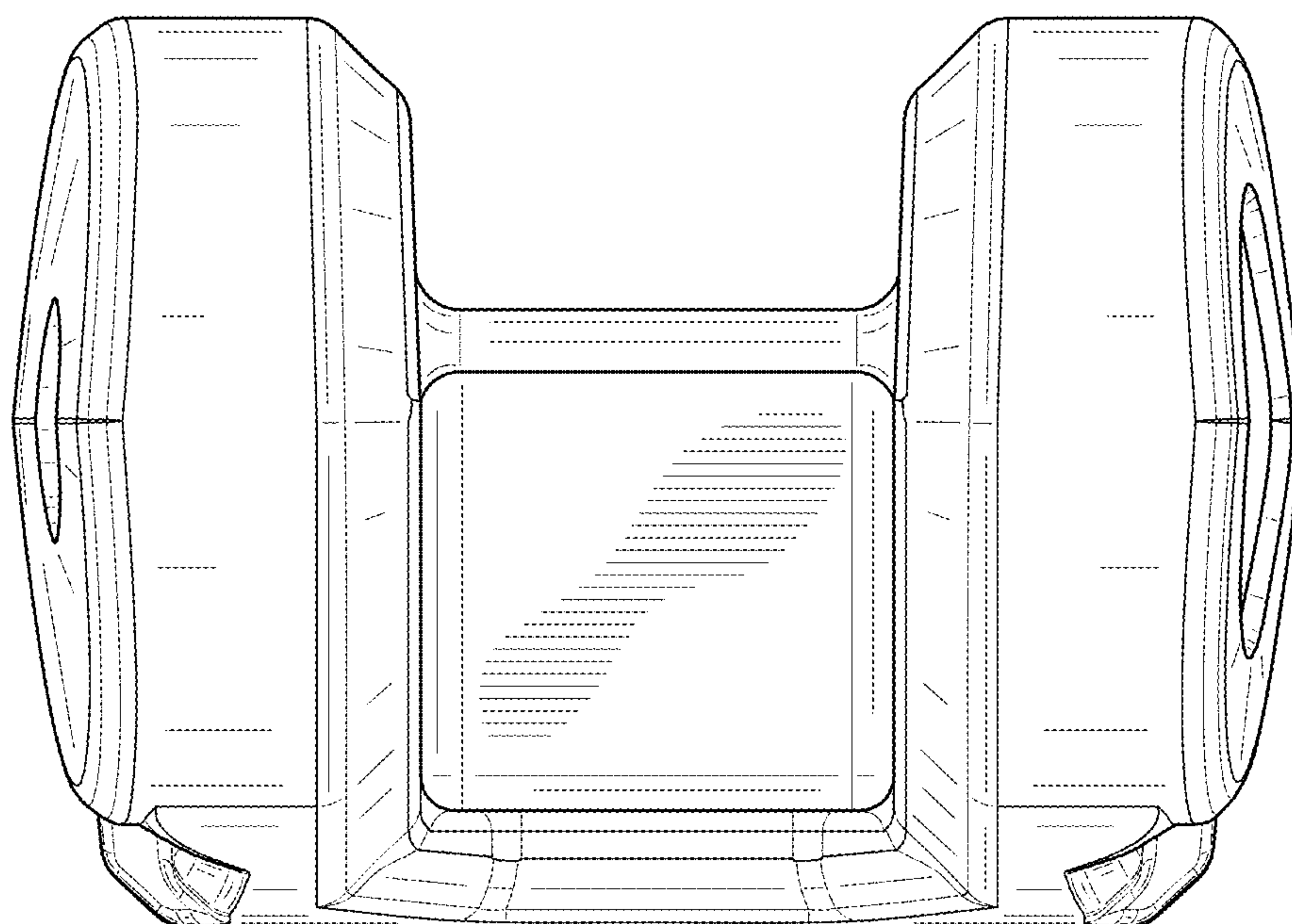


FIG. 6

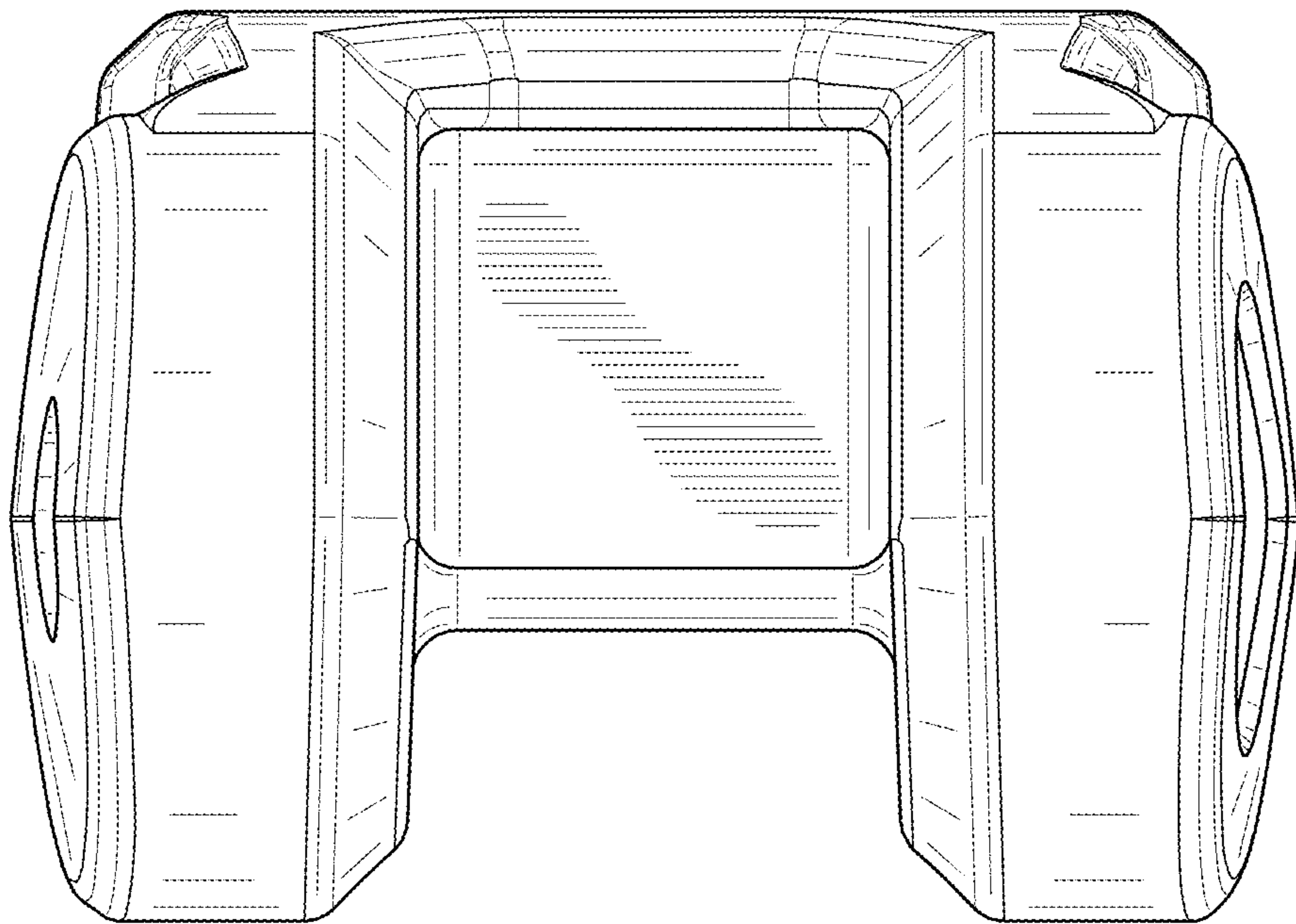


FIG. 7