



US00D801500S

(12) **United States Design Patent** (10) **Patent No.:** **US D801,500 S**  
**Andrews** (45) **Date of Patent:** **\*\* Oct. 31, 2017**

(54) **HOUSING FOR A CONDENSER** 5,808,441 A 9/1998 Nehring  
5,896,750 A 4/1999 Karl  
(71) Applicant: **Tiger Tool International** 6,116,513 A 9/2000 Perhats  
**Incorporated, Abbotsford (CA)** (Continued)

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**(US)**

**FOREIGN PATENT DOCUMENTS**

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**Incorporated, Abbotsford (CA)**

CN 106414122 A 2/2017  
RU 2146034 C1 2/2000  
(Continued)

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

**OTHER PUBLICATIONS**

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USPTO, "Non-Final Office Action, U.S. Appl. No. 14/642,601",  
dated Jun. 16, 2017, 9 pages.

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(Continued)

(51) **LOC (10) Cl.** ..... **23-04**

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(52) **U.S. Cl.**

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USPC ..... **D23/354; D23/357**

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(58) **Field of Classification Search**

USPC ..... D23/333, 335, 341, 342, 351, 353, 354,  
D23/355, 356, 359, 364, 365, 370, 385,  
D23/386, 388, 393

(57) **CLAIM**

CPC .... F24F 1/00; F24F 1/0007; F24F 1/02; F24F  
1/08; F24F 1/42; F24F 1/56; F24F 1/60;  
F24F 3/044; F24F 3/048; F24F 3/16;  
F24F 7/00; F24F 7/04; F24F 12/001;  
F24F 12/006

The new design for a housing for a condenser, as shown and  
described herein.

See application file for complete search history.

**DESCRIPTION**

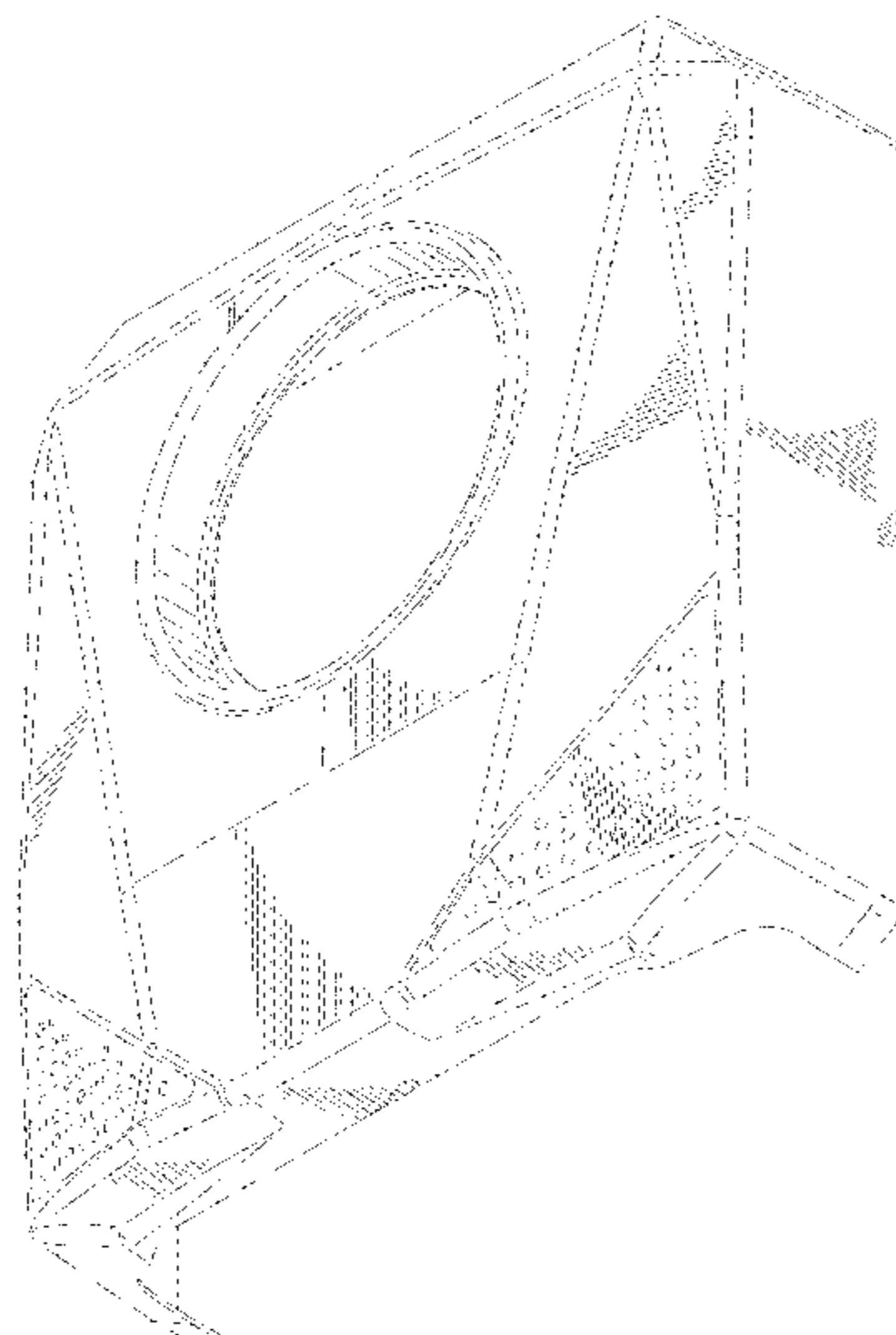
(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D240,428 S \* 7/1976 Hoffman ..... D23/262  
4,280,330 A 7/1981 Harris et al.  
D287,264 S \* 12/1986 Rinaldo ..... D15/21  
4,630,775 A \* 12/1986 Mandon ..... A01M 1/2044  
D23/369  
D322,122 S \* 12/1991 Guetersloh ..... D23/357  
D324,420 S \* 3/1992 Farce ..... D23/369  
D338,952 S \* 8/1993 Snow ..... D23/366  
D393,703 S 4/1998 Gilbertson

FIG. 1 is perspective view of a housing for a condenser of  
the present invention;  
FIG. 2 is a front elevation view of the housing for a  
condenser of the present invention;  
FIG. 3 is a first side elevation view of the housing for a  
condenser of the present invention;  
FIG. 4 is a second side elevation view of the housing for a  
condenser of the present invention;  
FIG. 5 is a rear elevation view of the housing for a condenser  
of the present invention;  
FIG. 6 is a top plan view of the housing for a condenser of  
the present invention; and,  
FIG. 7 is a bottom plan view of the housing for a condenser  
of the present invention.

**1 Claim, 5 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D453,560	S	2/2002	Van Brunt	
D456,887	S	5/2002	Zlotnik	
6,615,602	B2	9/2003	Wilkinson	
D532,893	S *	11/2006	Wu	D23/366
D536,078	S *	1/2007	Leon	D23/323
D536,079	S *	1/2007	Leon	D23/323
D548,750	S *	8/2007	Neeley	D15/5
D575,381	S *	8/2008	Leon	D23/323
7,430,874	B2	10/2008	Prince et al.	
7,448,227	B2	11/2008	Zeigler et al.	
D630,310	S *	1/2011	Beland	D23/356
D631,145	S *	1/2011	Beland	D23/356
D644,320	S *	8/2011	Virr	D24/110
D647,192	S	10/2011	Boadella Esteve et al.	
D648,018	S	11/2011	Sordo	
D663,816	S	7/2012	Tebe Poves et al.	
8,468,843	B2	6/2013	Futernik et al.	
D698,431	S	1/2014	Garbusi et al.	
D723,674	S	3/2015	Zaari	
9,049,971	B2	6/2015	Andrews	
D755,943	S	5/2016	Lanssky	
D762,830	S	8/2016	Lewis	
D763,423	S	8/2016	Hewett et al.	
D766,414	S	9/2016	Chu	
D778,415	S	2/2017	Ogg	
2003/0098148	A1	5/2003	Mehraban et al.	
2003/0192952	A1	10/2003	Horn et al.	
2005/0044864	A1	3/2005	Manole et al.	
2005/0241818	A1	11/2005	Yakumaru et al.	
2007/0204639	A1	9/2007	Harrison	
2009/0293522	A1	12/2009	Miyazaki	
2010/0089563	A1	4/2010	Sundhar et al.	
2011/0067422	A1	3/2011	Ichishi et al.	
2011/0114405	A1	5/2011	Perhats	
2013/0199217	A1	8/2013	Arai et al.	
2013/0227973	A1	9/2013	Kang et al.	
2014/0259517	A1	9/2014	Andrews	
2014/0345104	A1	11/2014	Andrews et al.	
2015/0047144	A1	2/2015	Coesel	
2015/0209918	A1	7/2015	Andrews	
2015/0224635	A1	8/2015	Andrews	
2015/0251520	A1	9/2015	Andrews et al.	
2015/0289734	A1	10/2015	Andrews	
2016/0288619	A1	10/2016	Andrews	

FOREIGN PATENT DOCUMENTS

RU	2157037	C1	9/2000
RU	2425436	C2	7/2011
RU	2516912	C1	5/2014
WO	2013142992	A1	10/2013

WO	2014149567	A1	9/2014
WO	2015138352	A1	9/2015
WO	2016161447	A1	10/2016
WO	2017132260	A1	8/2017

OTHER PUBLICATIONS

apucenter.com, Auxiliary Power Units—Service—Parts, Comfort Master, <https://web.archive.org/web/2014011100715/http://apucenter.com/>, Jan. 11, 2014, 2 pages.

Bergstrom, Bergstrom Nite No-Idle, <https://web.archive.org/web/20140207093405/http://us.bergstrominc.com/nite-no-idle/>, Feb. 7, 2014, 1 page.

ClimaCab Crosspoint Solutions, ClimaCab 3.0 APU, Product Overview and Brochure, <http://www.crosspointsolutionsgroup.com/climacab/product/climacab-apu.html>, 2012, 6 pages.

Cool-It, 12V No-Idle Split A/C System, Product Overview and Brochure, <http://ccool-it.ca/?s=12+volt+no+idle+system>, 2012, 8 pages.

DC Airco, High Efficiency Direct Current Air Conditioners, <https://web.archive.org/web/20130825041413/http://dcairco.com/index.php/products/trucks>, Aug. 25, 2013, 3 pages.

Dometic Group, Dometic Showcases Expanded Line of HVAC Systems for Day Cabs, <http://www.2.dometic.com/enus/Americas/USA/Truck-News/Dometic-Showcases-Expanded-Line-of-HVAC-Systems-For-Day-Cabs/>, 2010, 1 page.

Hammond Air Conditioning Ltd., Arctic Breeze Truck AC: 12V/DC air conditioning keeps cabs cool without wasting fuel, <https://web.archive.org/web/20140108111758/http://www.arcticbreeze-truckac.com/>, Jan. 8, 2014, 1 page.

Idle Free Systems, Inc., Systems for all driving conditions, budgets, and investment timelines, <http://idlefreesystems.com/no-idle-elimination-systems-battery-reffer-busses.html>, 2010-2011, 1 page.

Indel B, Sleeping Well, [https://web.archive.org/web/20130530064452/http://www.indelb.com/products/truck\\_air\\_conditioning/sleeping\\_well](https://web.archive.org/web/20130530064452/http://www.indelb.com/products/truck_air_conditioning/sleeping_well), May 30, 2013, 2 pages.

International Searching Authority, ISR & Written Opinion, PCT/US2015019523, dated Jun. 10, 2015, 7 pages.

Rigmaster Power, The Ultimate Stand-Alone Truck Mounted APU, <http://rigmasterpower.com>, 2011, 1 page.

Thermo King, APU Tripac Evolution, Product Overview and Brochure, <http://www.na.thermoking.com/tk-innovation/global/en/products/apu.html>, 2011, 9 pages.

International Searching Authority, Written Opinion & ISR, PCT/US2017/014941, dated Apr. 20, 2017, 7 pages.

International Searching Authority, ISR & Written Opinion, PCT/US2016/025923, dated Sep. 8, 2016, 7 pages.

USPTO, “Non-Final Office Action, U.S. Appl. No. 15/047,442,”, dated Aug. 10, 2017, 6 pages.

\* cited by examiner

FIG. 1

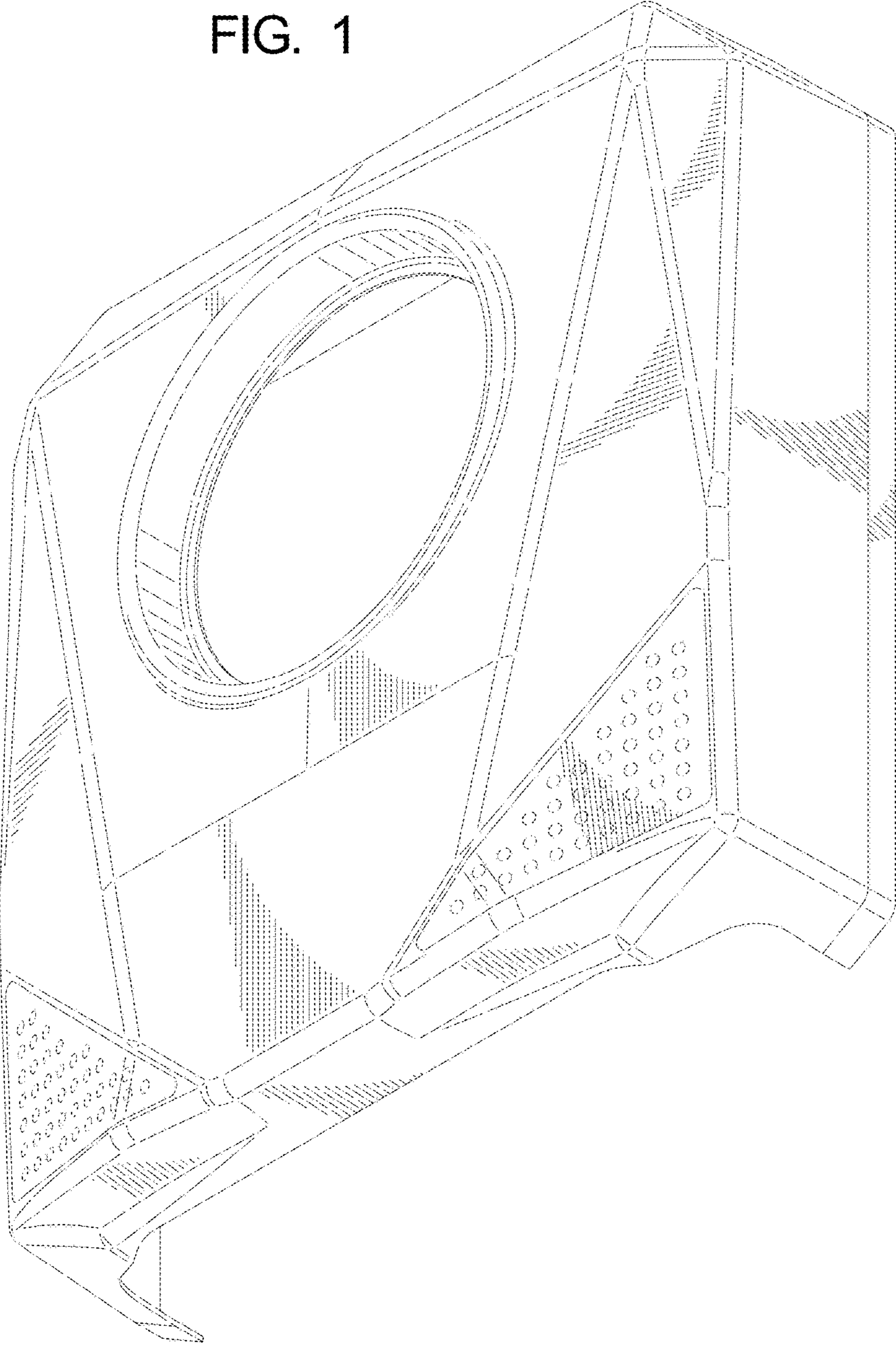


FIG. 2

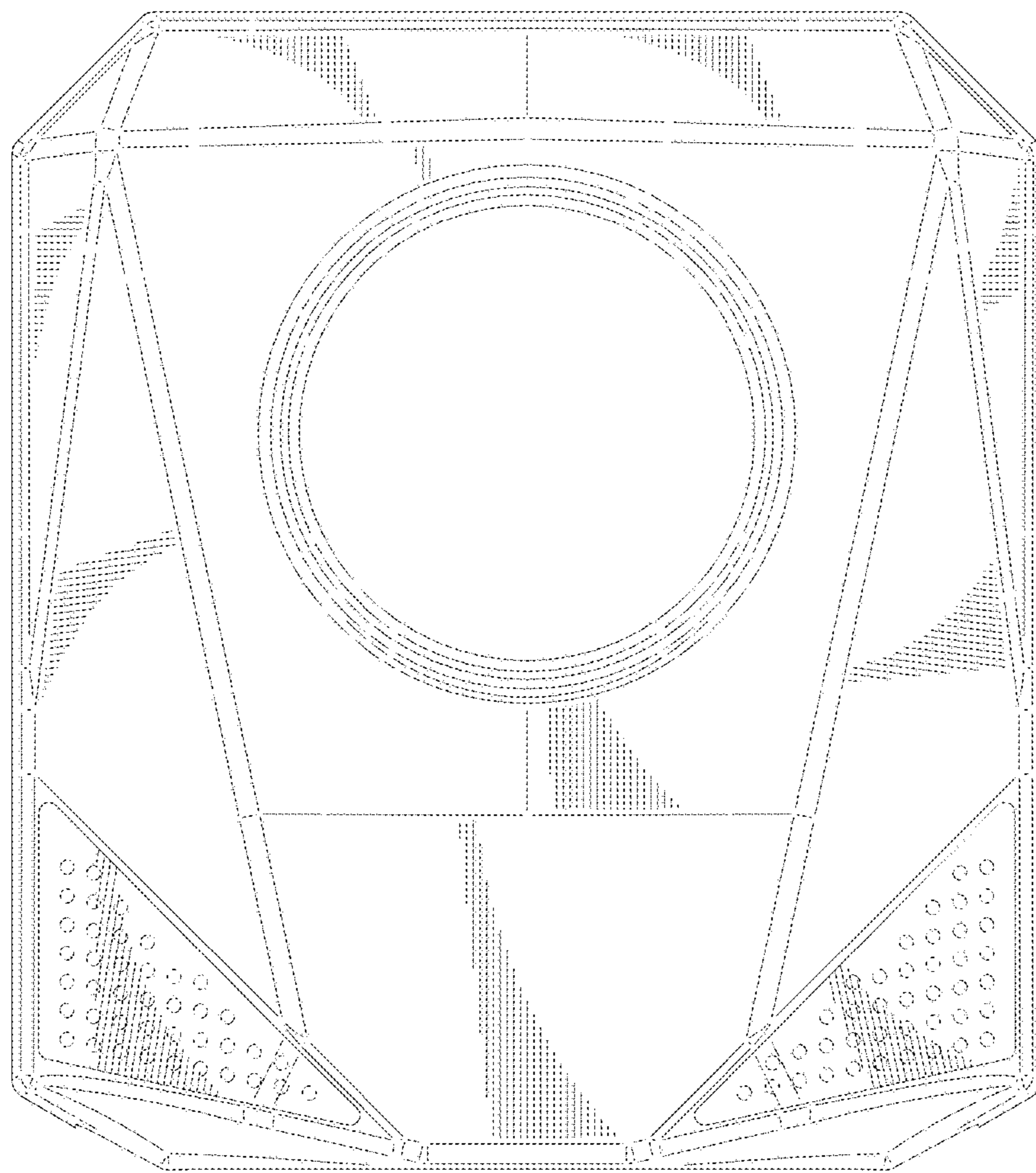


FIG. 3

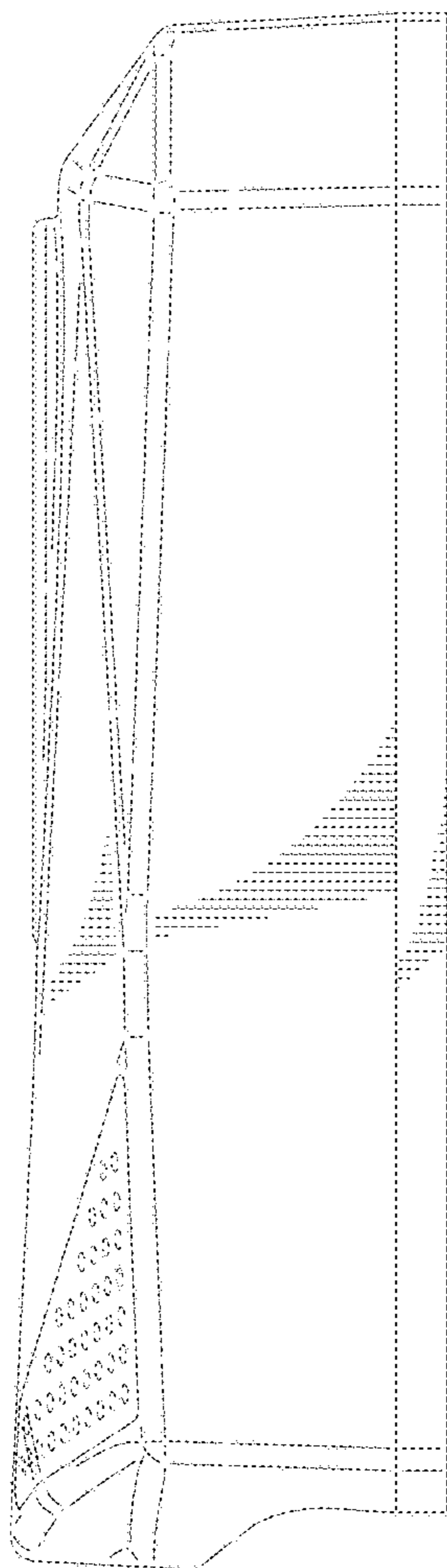


FIG. 4

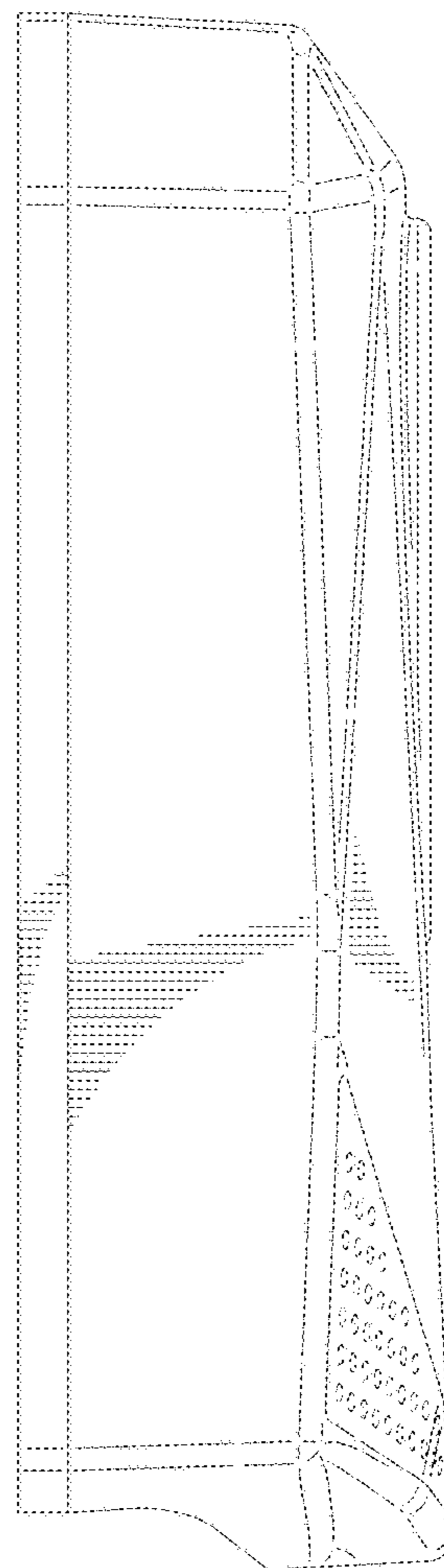


FIG. 5

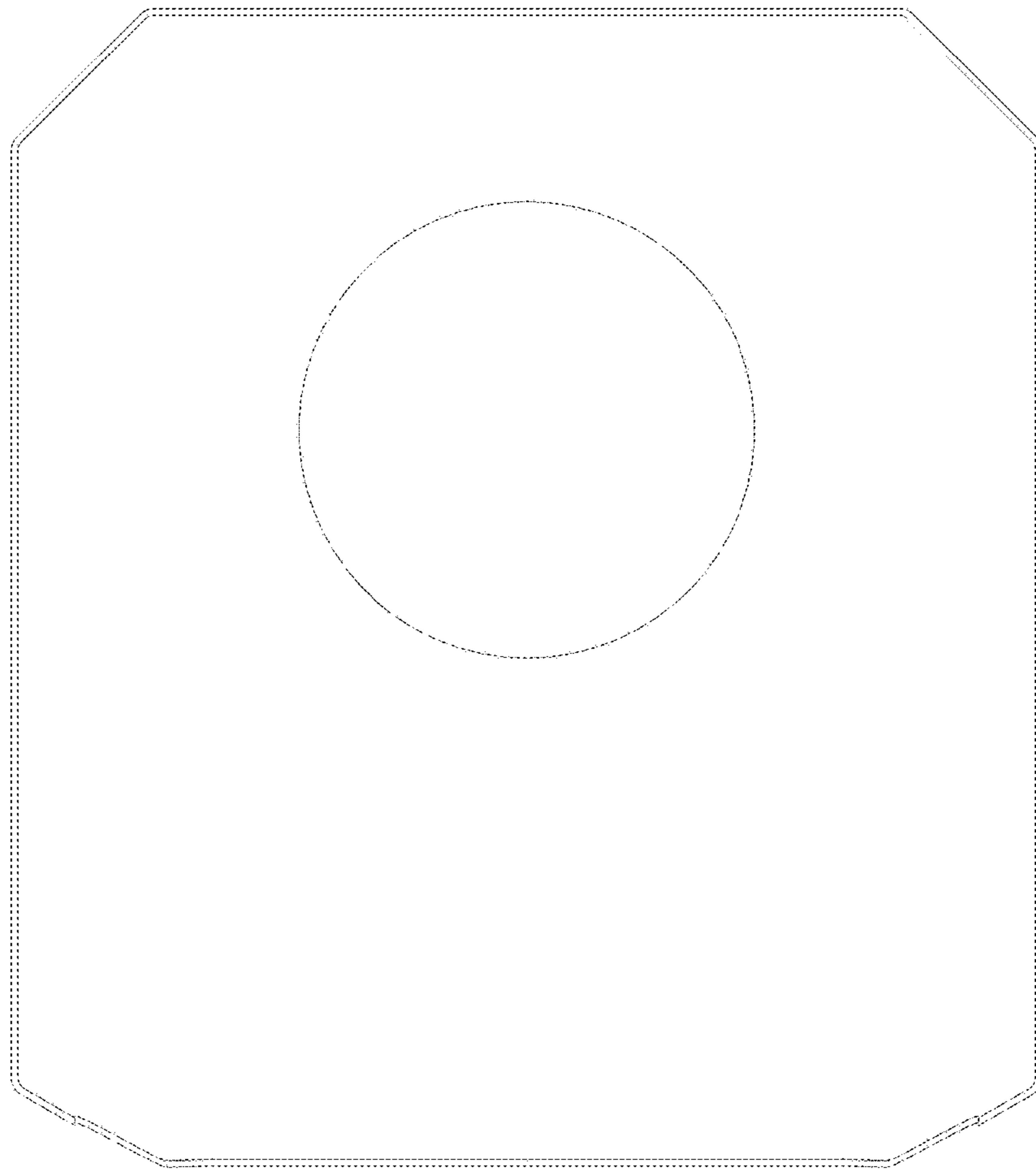


FIG. 6

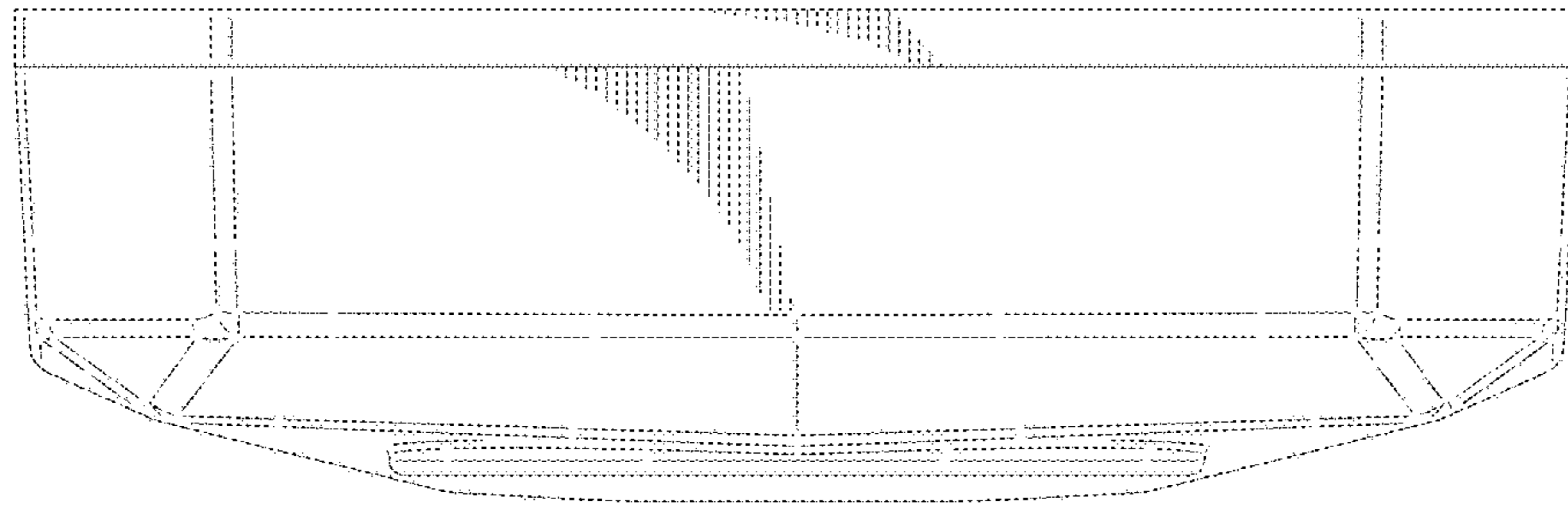


FIG. 7

