



US00D913939S

(12) **United States Design Patent** (10) **Patent No.:** **US D913,939 S**
Li (45) **Date of Patent:** **** Mar. 23, 2021**

(54) **ELECTRICAL CONNECTOR**
(71) Applicant: **IDEAL Industries, Inc.**, Sycamore, IL (US)

D512,687 S * 12/2005 Baker D13/133
D519,924 S * 5/2006 Baker D13/133
7,185,680 B2 3/2007 Magno, Jr.
(Continued)

(72) Inventor: **Jia Yong Li**, Westford, MA (US)
(73) Assignee: **IDEAL Industries, Inc.**, Sycamore, IL (US)

FOREIGN PATENT DOCUMENTS

EP 0521199 A1 1/1993
WO 20130003471 A1 1/2013

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/690,559**

ISA/US, International Search Report and Written Opinion issued for International Application No. US2016015391, dated Mar. 29, 2016, 9 pages.

(22) Filed: **May 9, 2019**

(Continued)

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

(52) **U.S. Cl.**
USPC **D13/120; D13/133**

Primary Examiner — Jennifer O King
(74) *Attorney, Agent, or Firm* — Greenberg Traurig, LLP

(58) **Field of Classification Search**
USPC D13/110, 103, 133, 108, 107, 144, 146,
D13/149, 119, 184, 120, 123, 153, 155,
D13/199

(57) **CLAIM**

The ornamental design for an electrical connector, as shown and described.

CPC .. H02J 7/0042; H02J 7/0063; H01R 13/6675;
H01R 13/24; H01R 31/065; H01R 31/06
See application file for complete search history.

DESCRIPTION

(56) **References Cited**

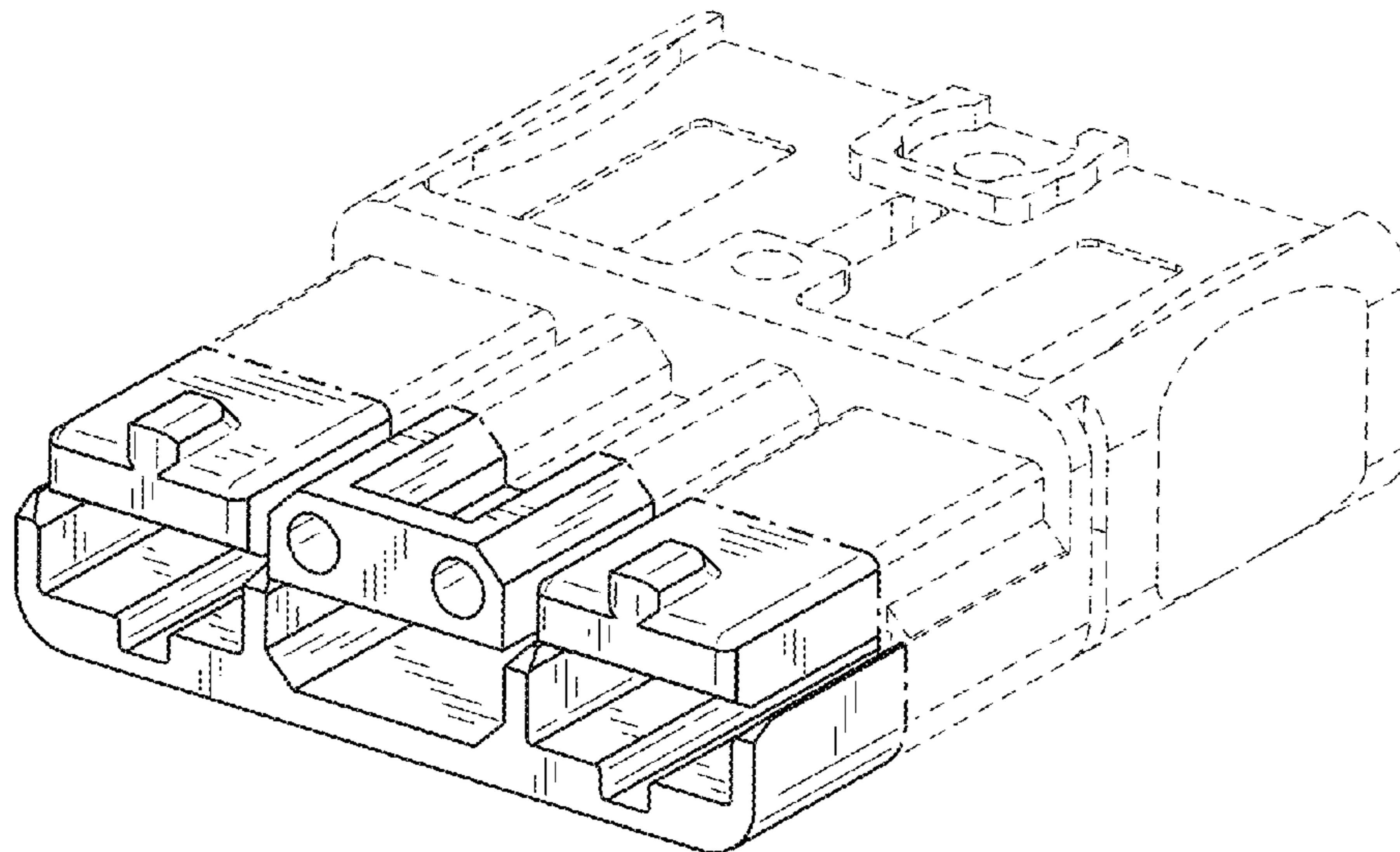
U.S. PATENT DOCUMENTS

3,654,586 A * 4/1972 Winkler H01R 13/64
439/295
3,735,784 A 5/1973 Obuch et al.
3,794,957 A * 2/1974 Winkler H01R 13/28
439/295
4,064,918 A 12/1977 Pobuta et al.
4,328,742 A 5/1982 Discavage
4,498,506 A 2/1985 Moody et al.
5,205,328 A 4/1993 Johnson
5,595,220 A 1/1997 Leban et al.
6,089,898 A * 7/2000 Lincoln, III H01R 13/6272
439/357
6,302,157 B1 10/2001 Deschenes et al.
6,648,378 B1 11/2003 Torres et al.

FIG. 1 is a bottom, front perspective view of an electrical connector showing my new design;
FIG. 2 is top, rear perspective view thereof;
FIG. 3 is a front side elevational view thereof;
FIG. 4 is a rear side elevational view thereof;
FIG. 5 is a left side elevational view thereof;
FIG. 6 is a right side elevational view thereof;
FIG. 7 is a bottom plan view thereof; and,
FIG. 8 is a top plan view thereof.

The broken lines shown represent portions of the electrical connector that form no part of the claimed design. Where the dot-dash broken lines abut the shaded surface it is understood that those broken lines represent an unclaimed boundary between claimed and unclaimed surfaces. None of the broken lines form any part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,231,944	B2	6/2007	Magno, Jr.	
D642,528	S *	8/2011	Gravolin	D13/133
D652,797	S *	1/2012	Smith	D13/133
D665,748	S *	8/2012	Baker	D13/133
9,682,806	B2	6/2017	Zantout et al.	
9,701,428	B2	7/2017	Weiby et al.	
D829,174	S *	9/2018	O'Brien	D13/133
D835,044	S *	12/2018	Ramanna	D13/146
D839,194	S *	1/2019	Wardenburg	D13/133
D860,136	S *	9/2019	Li	D13/133
D864,119	S *	10/2019	Abe	D13/146
D873,773	S *	1/2020	Cao	D13/133
D873,774	S *	1/2020	Cao	D13/133
D876,361	S *	2/2020	Hu	D13/133
D883,932	S *	5/2020	Chen	D13/133
2005/0115629	A1	6/2005	Bernard	
2005/0178461	A1	8/2005	Magno, Jr. et al.	
2007/0089801	A1	4/2007	Hillegonds et al.	
2009/0242069	A1	10/2009	Segroves	
2015/0267844	A1	9/2015	Zantout et al.	
2016/0236804	A1	8/2016	Weiby et al.	

OTHER PUBLICATIONS

ISA/US International Search Report and Written Opinion issued for International Application No. US2018062640, dated Mar. 27, 2019, 12 pages.

* cited by examiner

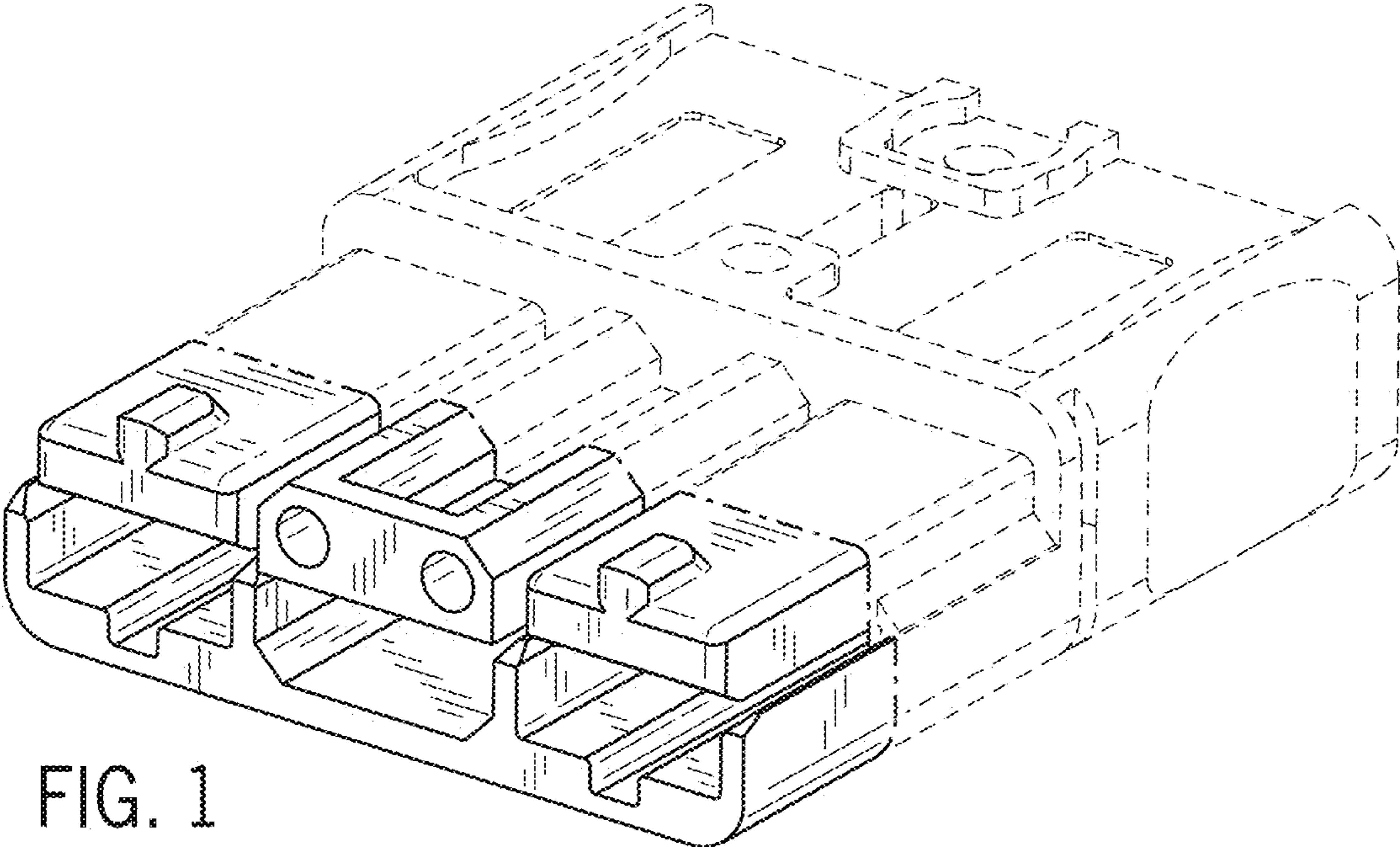


FIG. 1

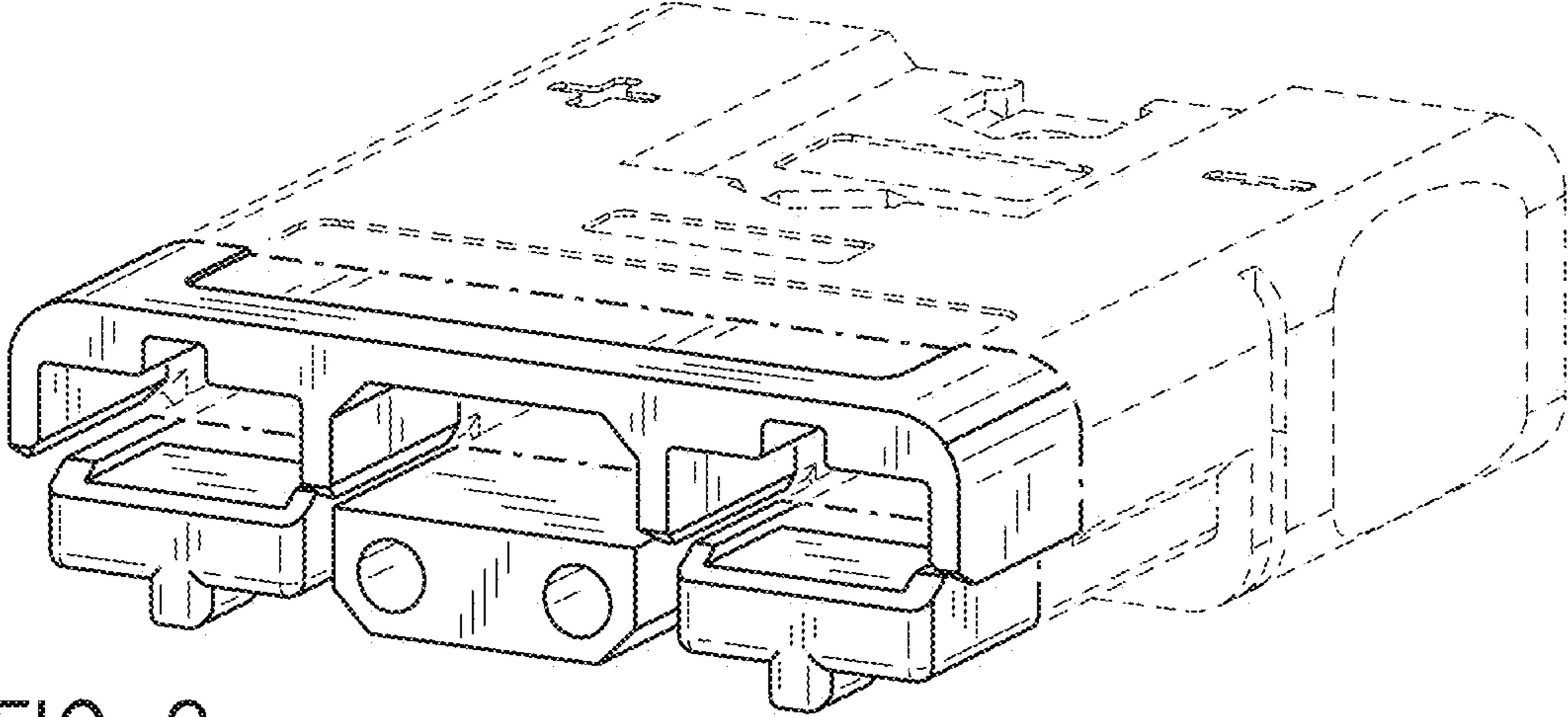


FIG. 2

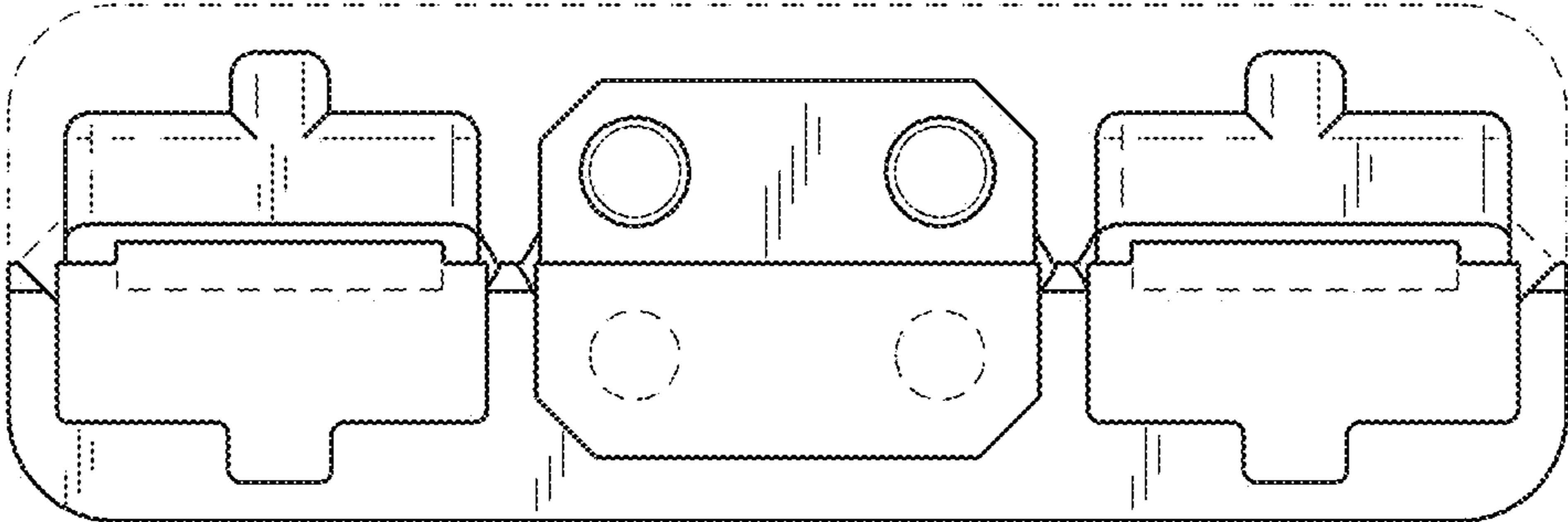


FIG. 3

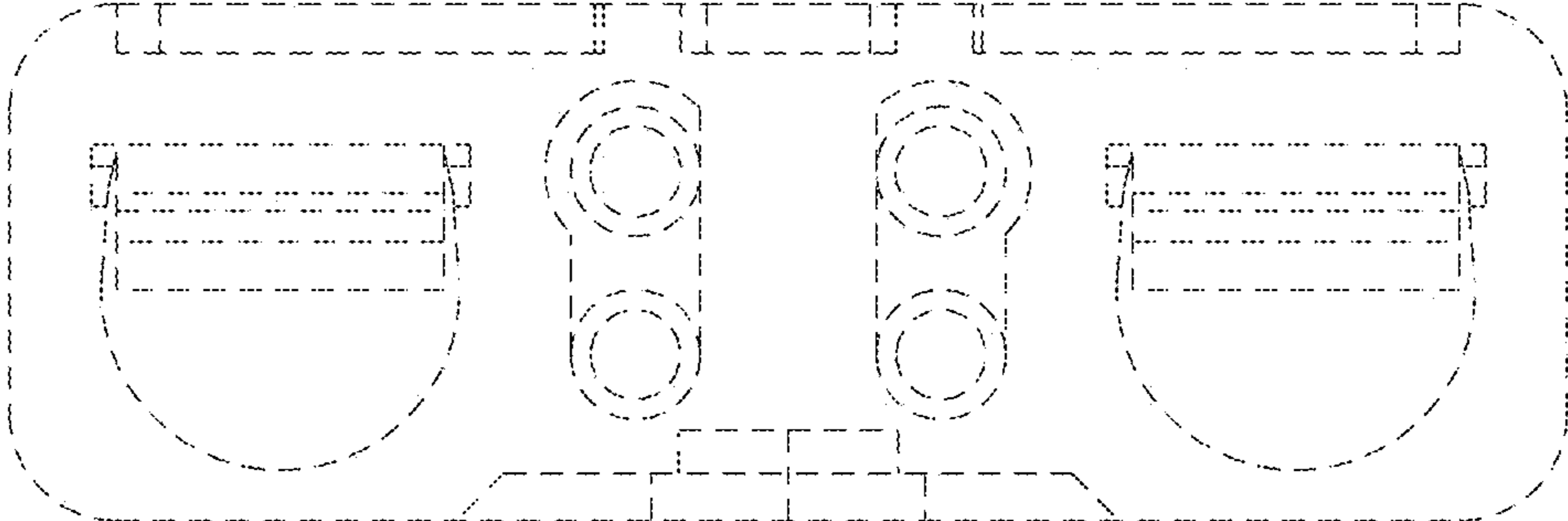


FIG. 4

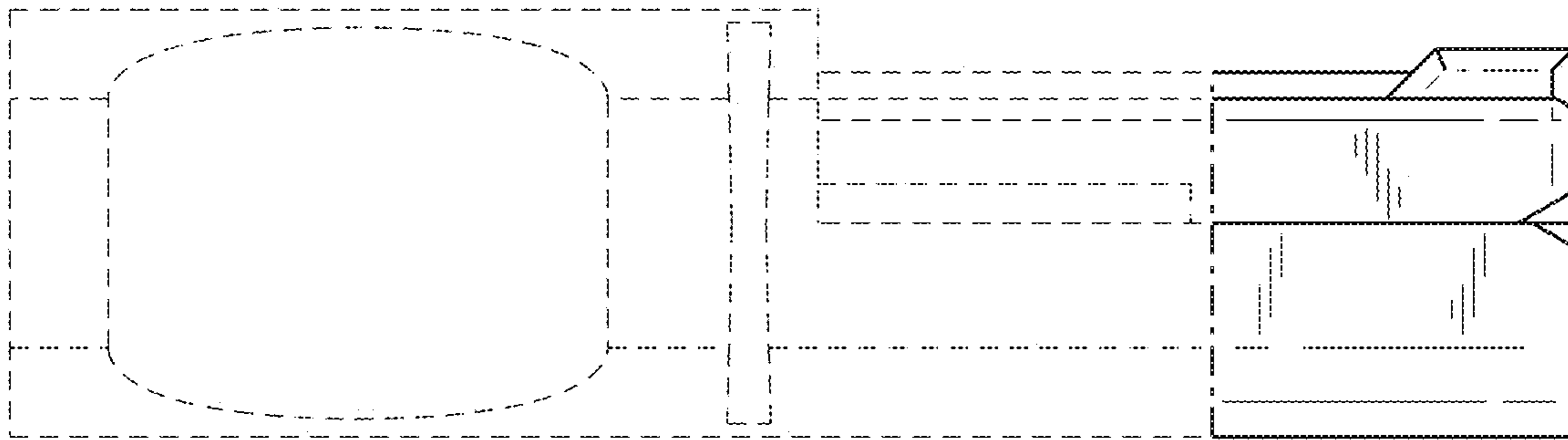


FIG. 5

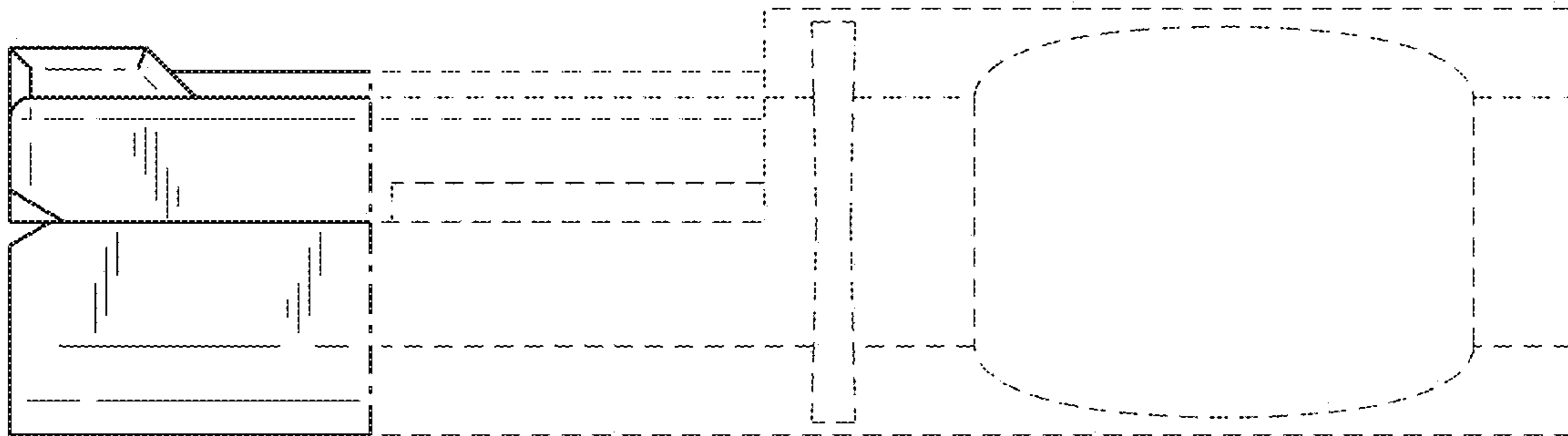


FIG. 6

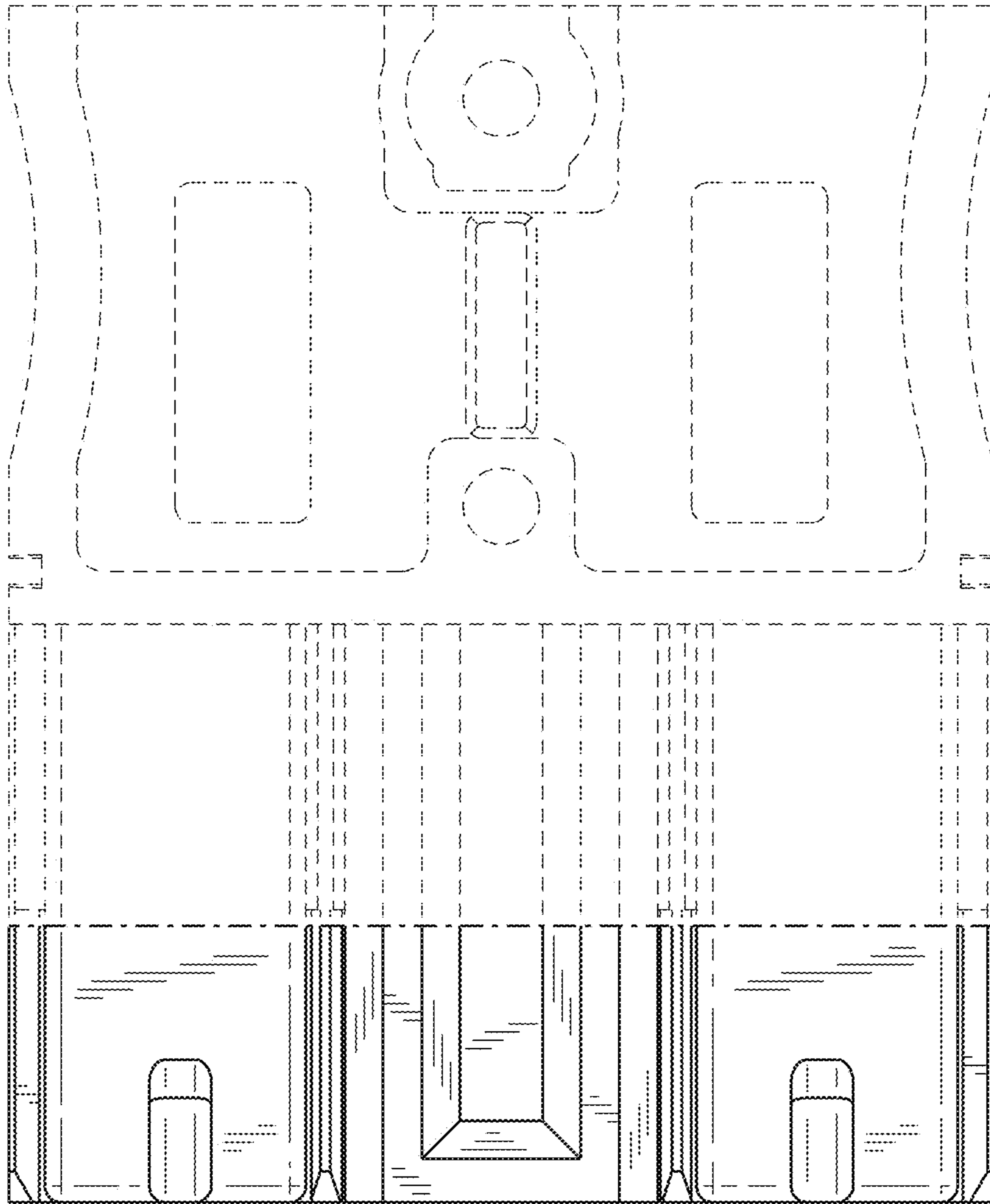


FIG. 7

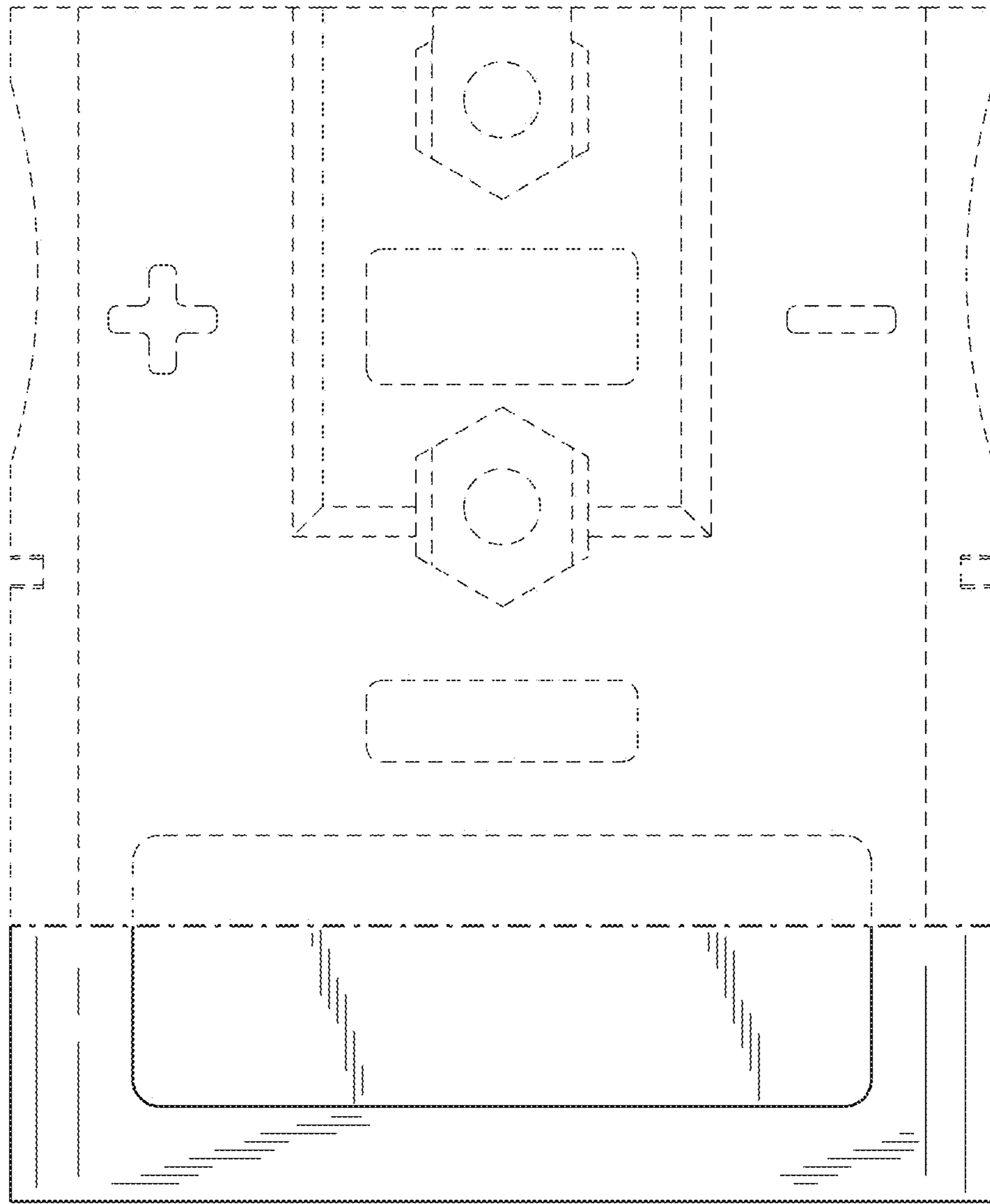


FIG. 8