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

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(54) **CONNECTOR**

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(51) **LOC (14) Cl.** ..... **13-03**

(52) **U.S. Cl.**  
USPC ..... **D13/147**

(58) **Field of Classification Search**  
USPC ... D13/133, 101, 123, 146, 147, 153, 137.1,  
D13/149, 139.8; D14/433, 435.1  
CPC .... G02B 6/38; G02B 6/38875; G02B 6/4284;  
H01R 13/40; H01R 13/58; H01R 13/627;  
H01R 13/66; H01R 13/6335; H01R  
13/6272; H01R 13/6397; H01R 13/639;  
H01R 13/6275; H01R 31/06; H01R  
24/00; H01R 24/64; H01R 43/26  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D603,798 S	*	11/2009	Obikane	.....	D13/147
D684,120 S	*	6/2013	Miyazaki	.....	D13/147
D691,960 S	*	10/2013	Miyazaki	.....	D13/147
D692,833 S	*	11/2013	Nishimura	.....	D13/147
D695,691 S	*	12/2013	Kobuchi	.....	D13/147
D722,972 S	*	2/2015	Miyazaki	.....	D13/147
D722,973 S	*	2/2015	Miyazaki	.....	D13/147

D722,974 S	*	2/2015	Ueda	.....	D13/147
D723,471 S	*	3/2015	Miyazaki	.....	D13/147
D739,826 S	*	9/2015	Omodachi	.....	D13/147
D774,462 S	*	12/2016	Omodachi	.....	D13/147
D774,463 S	*	12/2016	Omodachi	.....	D13/147
D774,464 S	*	12/2016	Takenaga	.....	D13/147
D792,854 S	*	7/2017	Ashibu	.....	D13/147
D810,694 S	*	2/2018	Horino	.....	D13/147

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP D1638447 S 8/2019

**OTHER PUBLICATIONS**

Japan Patent Office, "Office Action for Japanese Design Application No. 2021-007141 D," dated Sep. 10, 2021.

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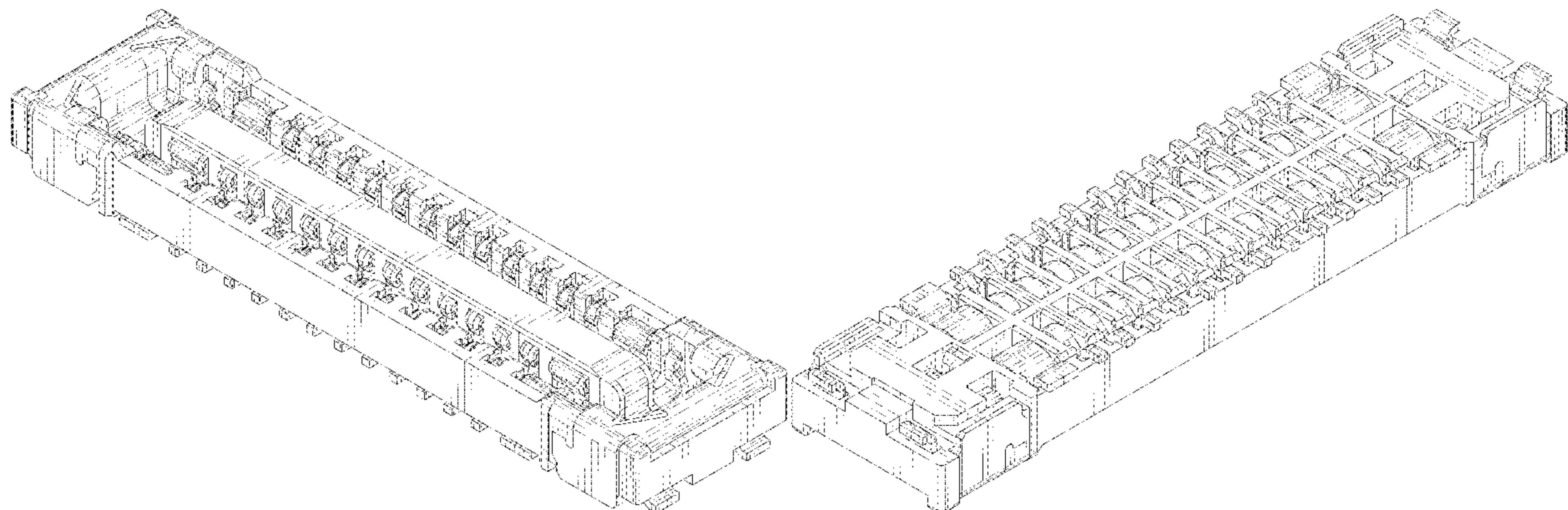
(57) **CLAIM**

The ornamental design for a connector, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevational view of a connector showing our new design;  
FIG. 2 is a rear elevational view thereof;  
FIG. 3 is a right side elevational view thereof;  
FIG. 4 is a left side elevational view thereof;  
FIG. 5 is a top plan view thereof;  
FIG. 6 is a bottom plan view thereof;  
FIG. 7 is a perspective view thereof;  
FIG. 8 is another perspective view thereof;  
FIG. 9 is a cross-sectional view thereof taken along the line 9-9 of FIG. 1; and,  
FIG. 10 is a cross-sectional view thereof taken along the line 10-10 of FIG. 1.

**1 Claim, 6 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D811,344 S *	2/2018	Ozeki .....	D13/147
D826,166 S *	8/2018	Yayoshi .....	D13/147
D911,977 S *	3/2021	Ashibu .....	D13/147
D911,978 S *	3/2021	Ashibu .....	D13/147
D913,953 S *	3/2021	Ashibu .....	D13/147
11,404,809 B2 *	8/2022	Oosaka .....	H01R 13/6582
D967,776 S *	10/2022	Kobuchi .....	D13/133
2004/0185690 A1 *	9/2004	Huang .....	H01R 13/26 439/74

\* cited by examiner

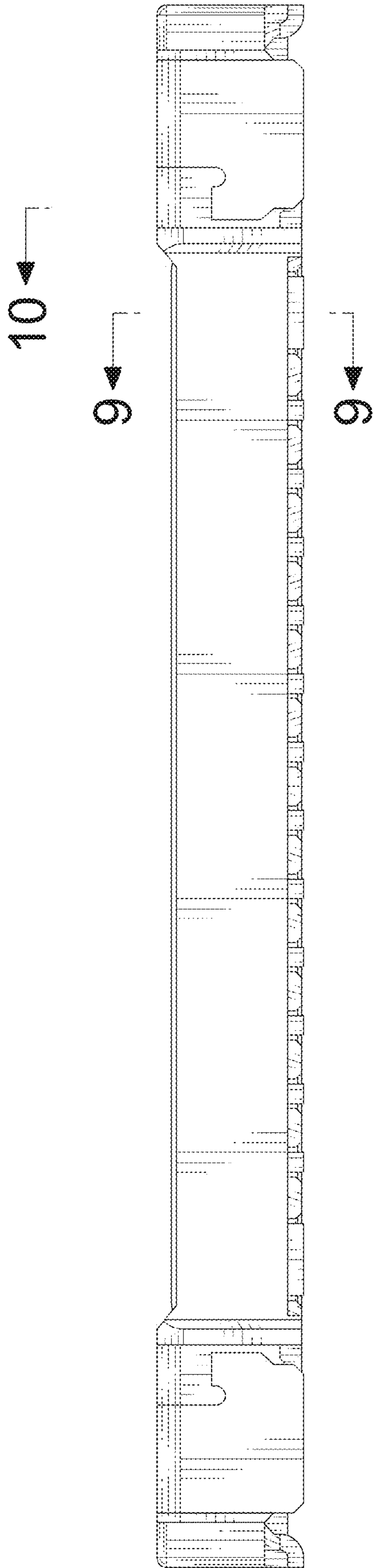


FIG. 1

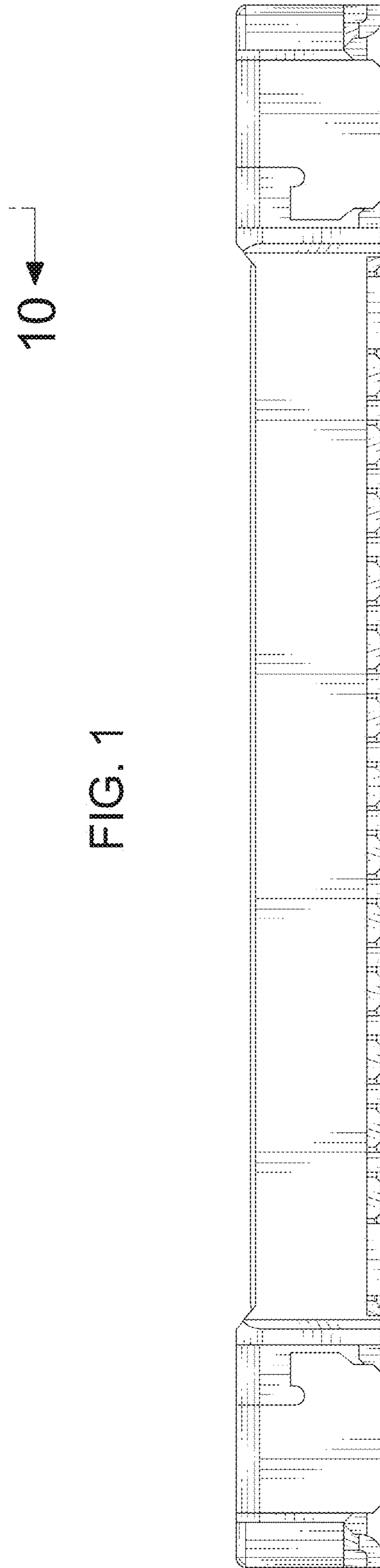


FIG. 2

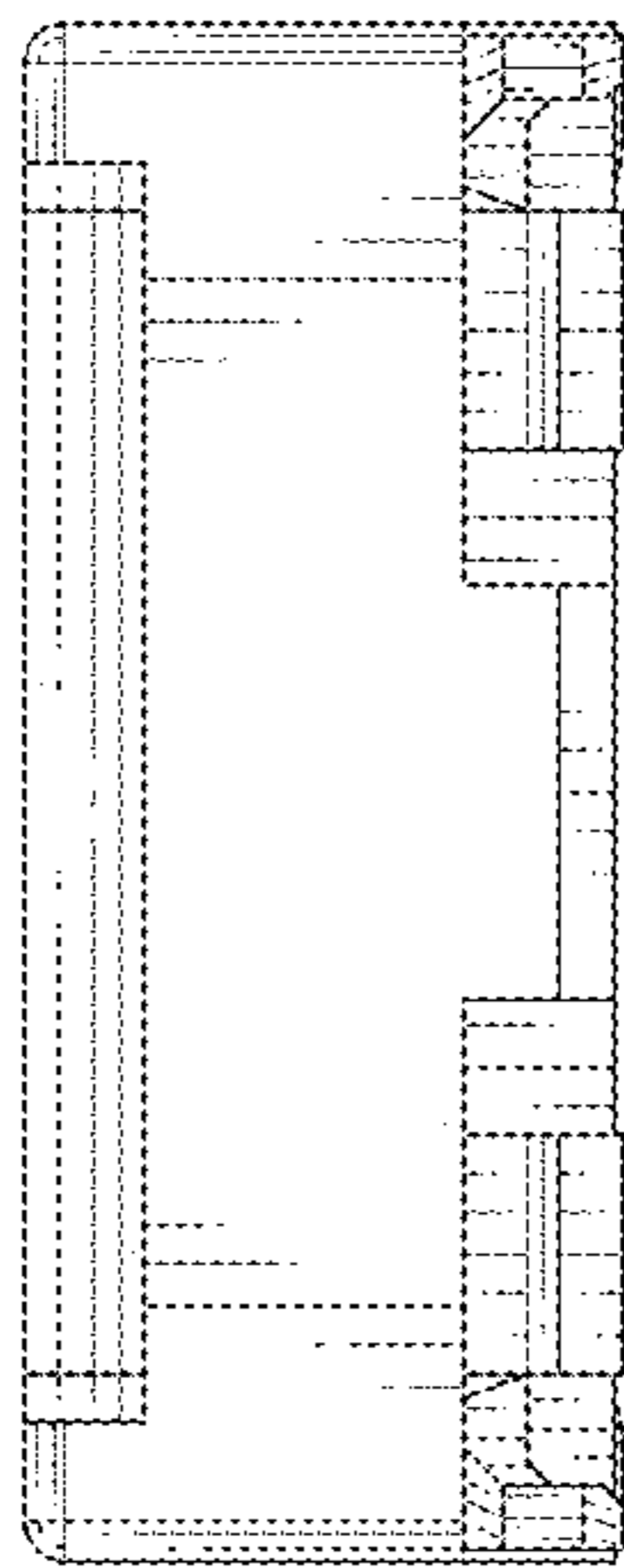


FIG. 3

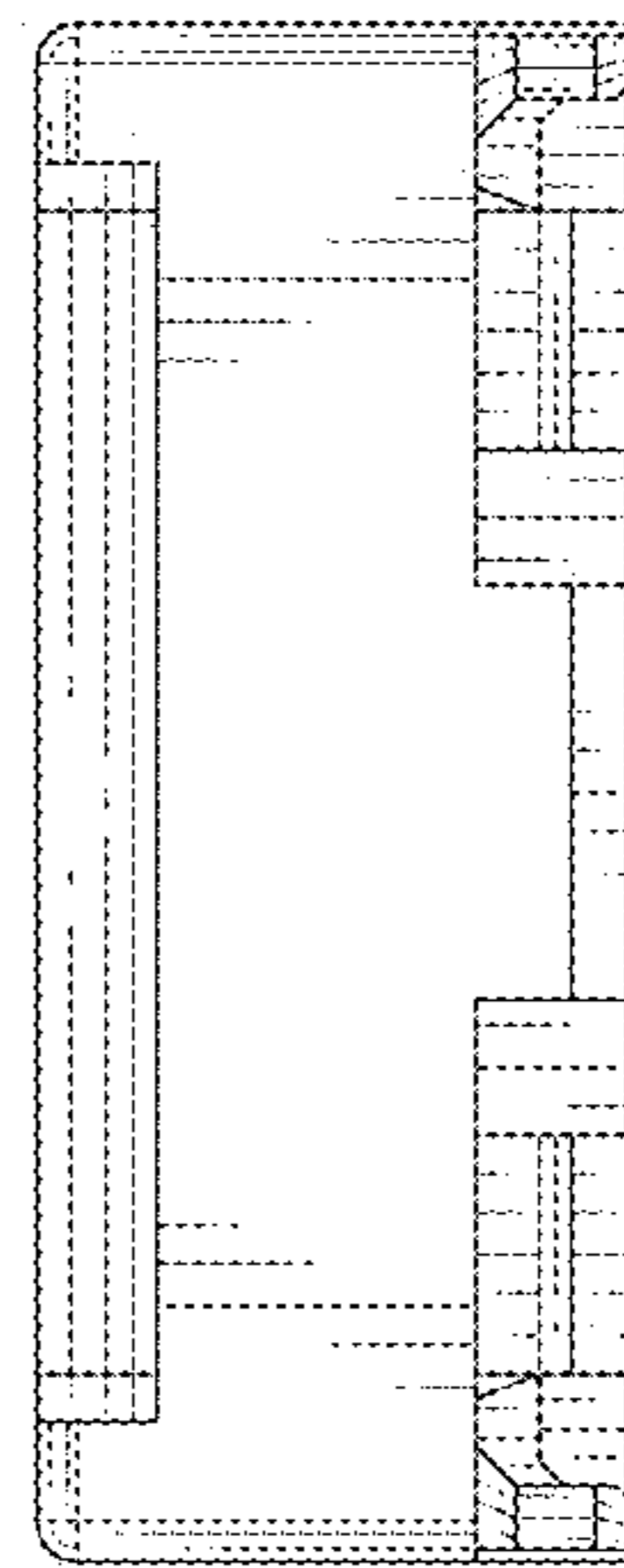


FIG. 4

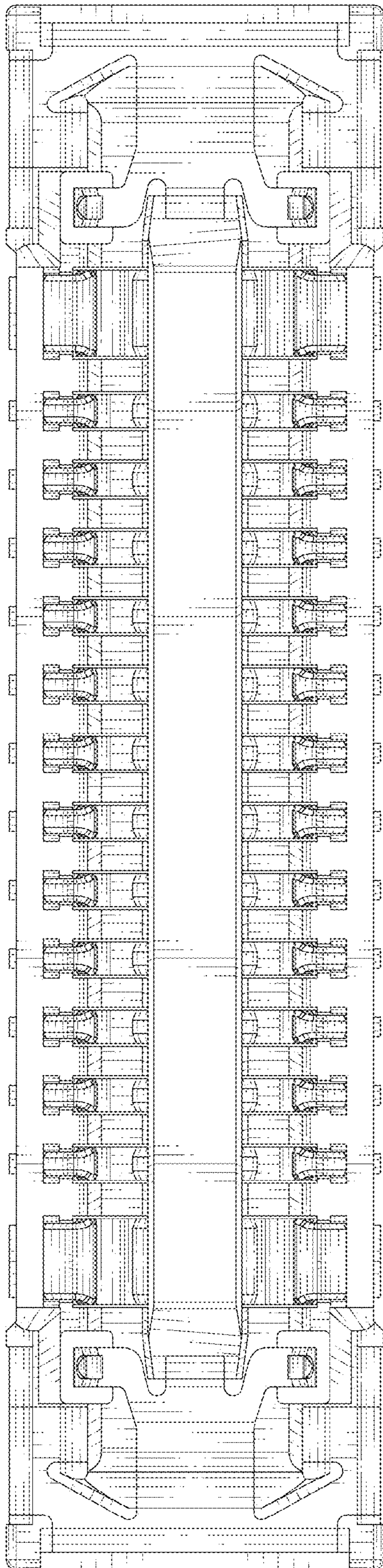


FIG. 5

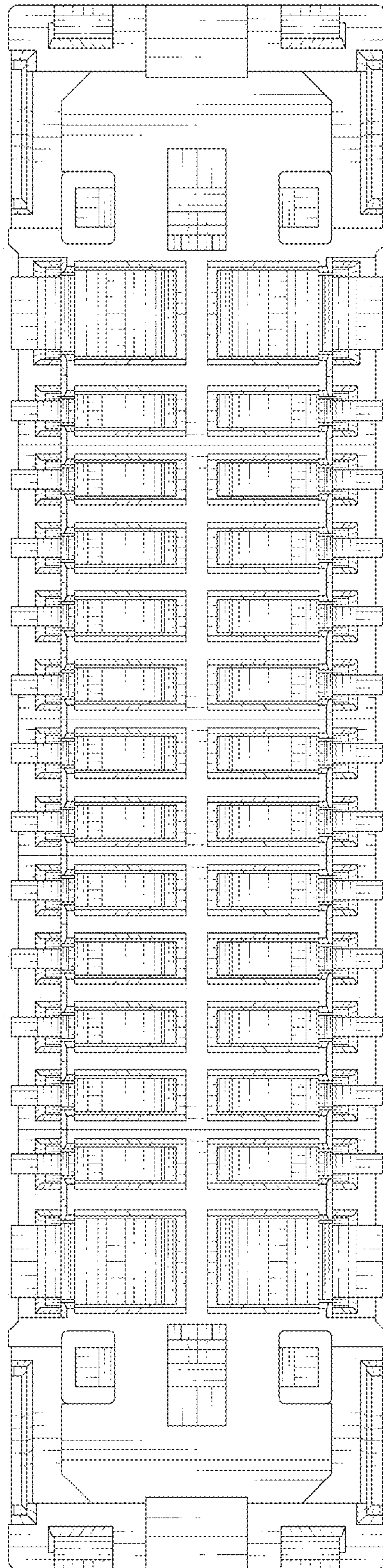


FIG. 6

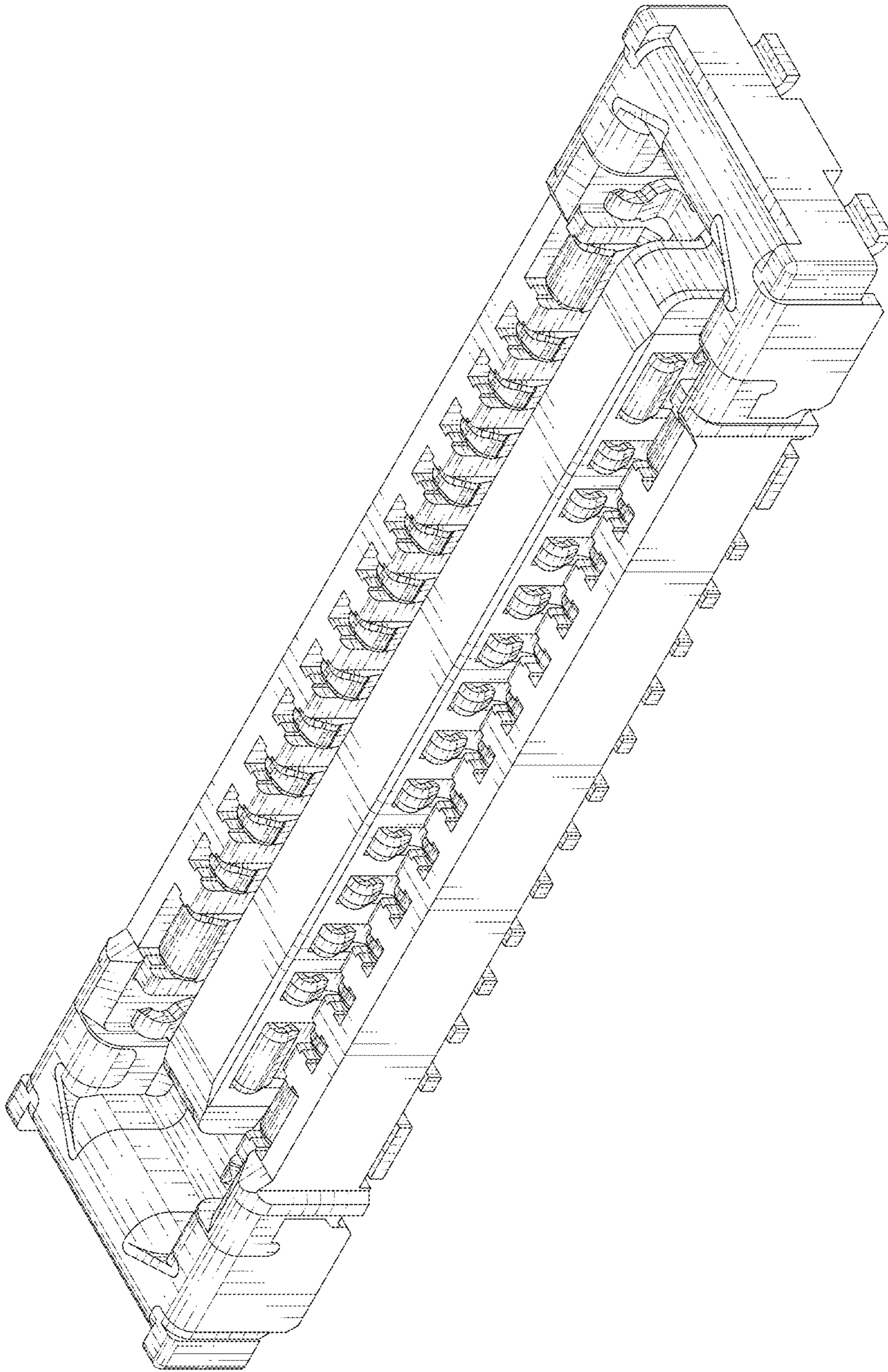


FIG. 7

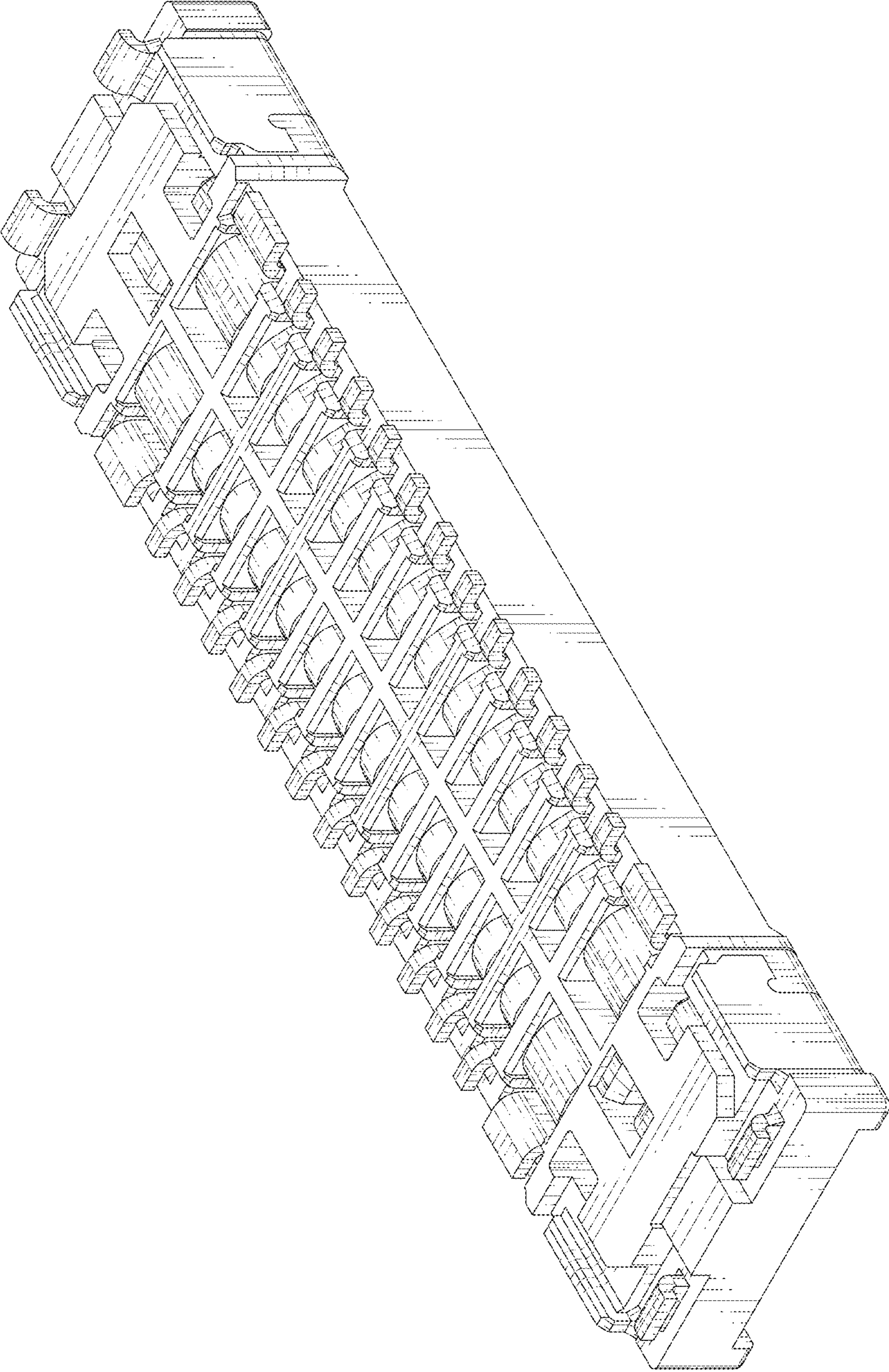


FIG. 8

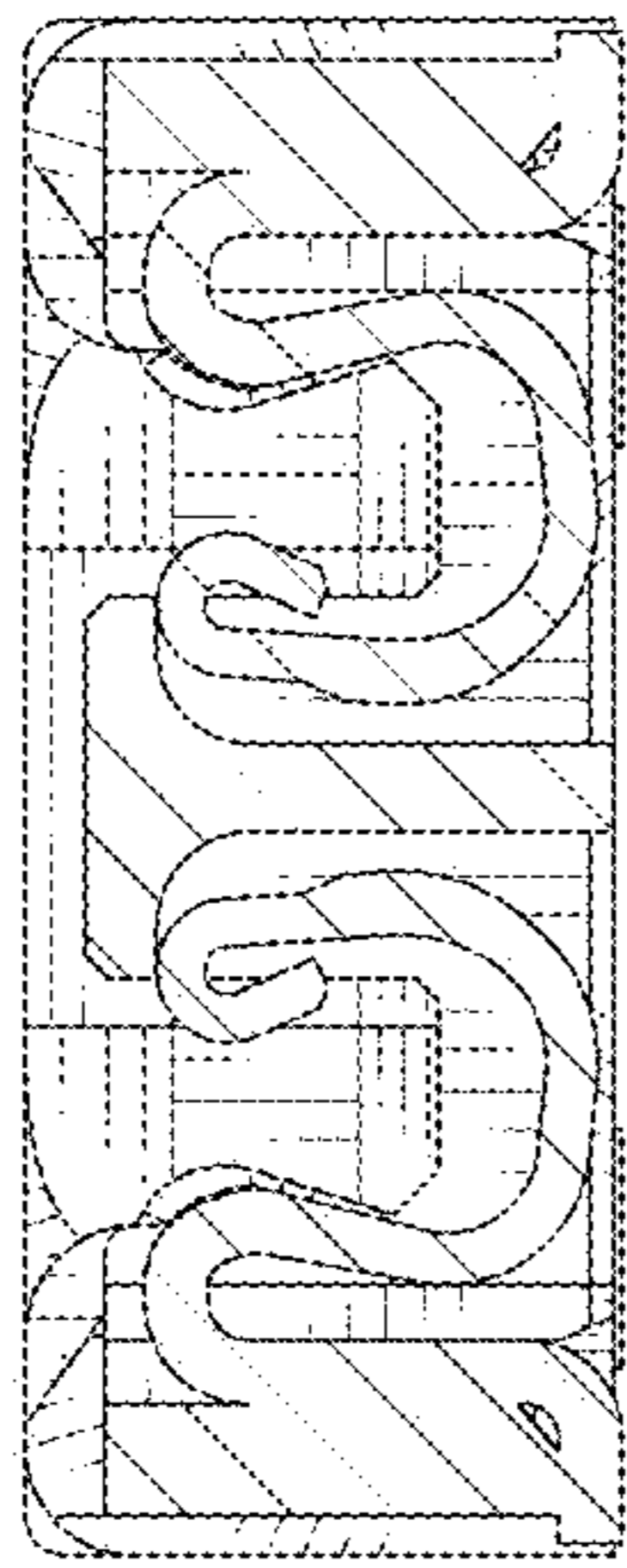


FIG. 9

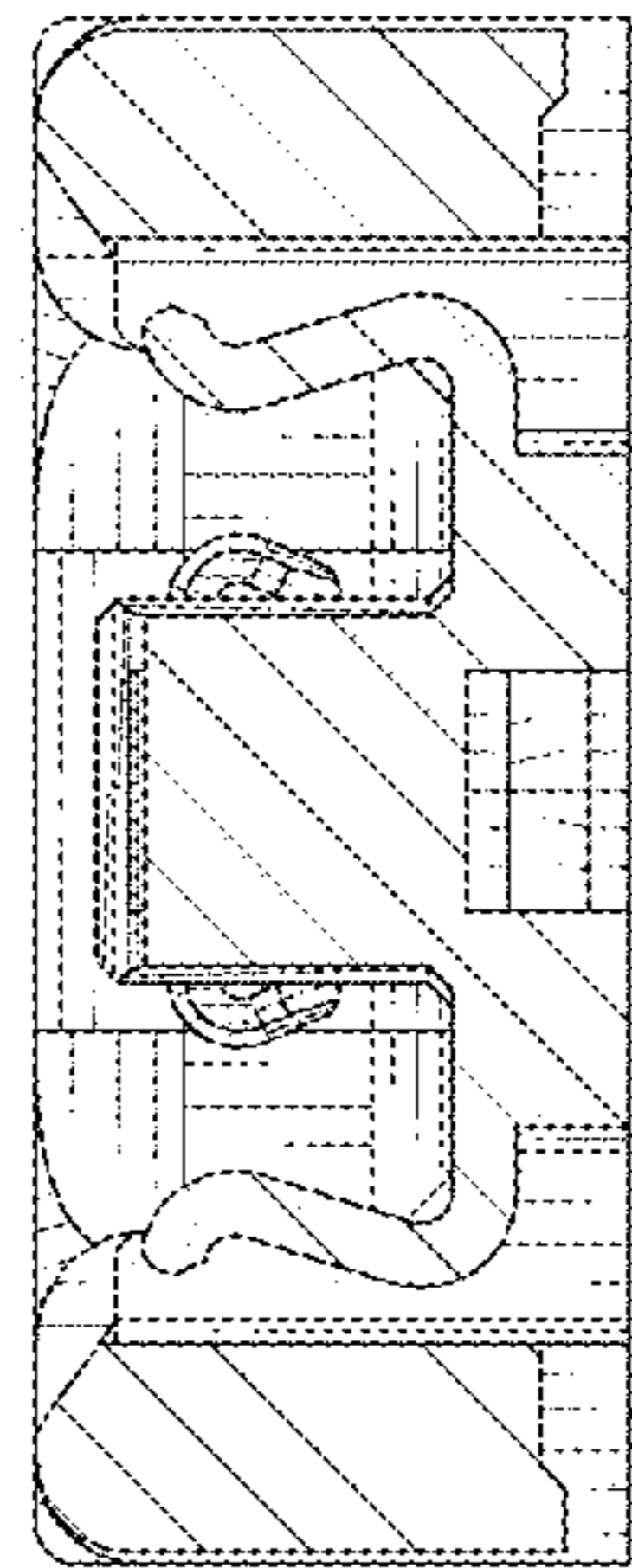


FIG. 10