



US00D848950S

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

(10) **Patent No.:** **US D848,950 S**

(45) **Date of Patent:** **** *May 21, 2019**

(54) **ELECTRICAL CONNECTOR**

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(*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/573,016**

(22) Filed: **Aug. 2, 2016**

(30) **Foreign Application Priority Data**

Feb. 10, 2016 (JP) 2016-002837

(51) **LOC (11) Cl.** **13-03**

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

(58) **Field of Classification Search**

USPC D13/120, 133, 146, 147, 154, 184, 199
CPC H01R 4/02; H01R 24/60; H01R 24/64;
H01R 13/17; H01R 13/502; H01R 13/648;
H01R 13/6581; H01R 13/6583; H01R 13/6596;
H01R 12/52; H01R 12/71; H01R 12/79; H01R 13/24; H01R 43/02; H01R 43/16

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,611,873 A * 9/1986 Punako H01R 13/6588
439/277
D320,381 S * 10/1991 McGrane 439/798

D342,937 S *	1/1994	Angel, Jr.	D13/120
D366,928 S *	2/1996	Itafuji	D23/233
D413,373 S *	8/1999	Watanabe	D23/233
D420,101 S *	2/2000	Hiramatsu	D23/233
D427,285 S *	6/2000	Watanabe	D23/233
D518,147 S *	3/2006	Fukushima	D23/233
D526,385 S *	8/2006	Johnson	D23/233
D539,751 S *	4/2007	Kiely	D13/152
D556,860 S *	12/2007	Yokohari	D23/233
D600,783 S *	9/2009	Narita	D23/233
D603,937 S *	11/2009	Tejamo	D23/233
D604,396 S *	11/2009	Schmidt	D23/233
D608,416 S *	1/2010	Schmidt	D23/233
D638,730 S *	5/2011	Ishibashi	D10/85
D667,532 S *	9/2012	Asaba	D10/85
D681,163 S *	4/2013	Asaba	D10/85
D690,392 S *	9/2013	Miyazoe	D23/233
D701,292 S *	3/2014	Kaneko	D23/233
D743,910 S *	11/2015	Murphy	D13/147
D750,745 S *	3/2016	Sato	D23/233

(Continued)

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(57) **CLAIM**

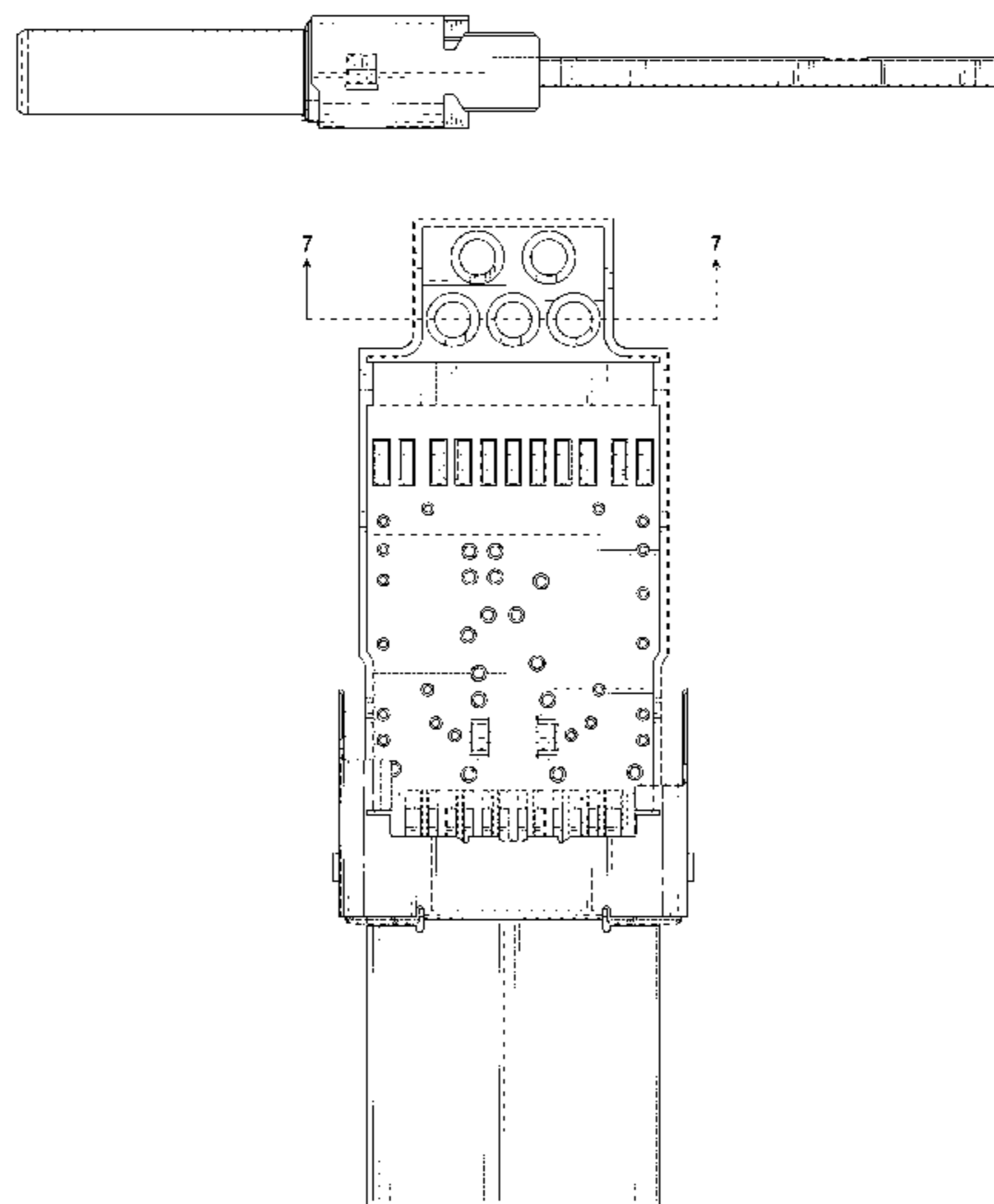
The ornamental design for an electrical connector, as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of an electrical 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; and,
FIG. 7 is an enlarged sectional view thereof taken along line 7-7 in FIG. 5.

The broken line showing of the electrical connector is for the purpose of illustrating portions of the article and forms no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D758,317 S * 6/2016 Plassiard D13/154
D804,438 S * 12/2017 Makis D13/184
D808,341 S * 1/2018 Kimura D13/147
D808,342 S * 1/2018 Yamaguchi D13/147
D810,873 S * 2/2018 Yoshida D23/233
D822,613 S * 7/2018 Kimura D13/154
2006/0105629 A1 * 5/2006 Hayashi H01R 13/5219
439/587
2008/0209716 A1 * 9/2008 Yagi H01R 43/048
29/753
2009/0170365 A1 * 7/2009 Wang H01R 13/4223
439/367
2009/0253279 A1 * 10/2009 Howell H01R 13/33
439/82
2011/0151689 A1 * 6/2011 Lin G01R 1/0408
439/66
2011/0195615 A1 * 8/2011 Falchetti H01R 11/283
439/806
2016/0344118 A1 * 11/2016 Hsieh H01R 43/16

* cited by examiner

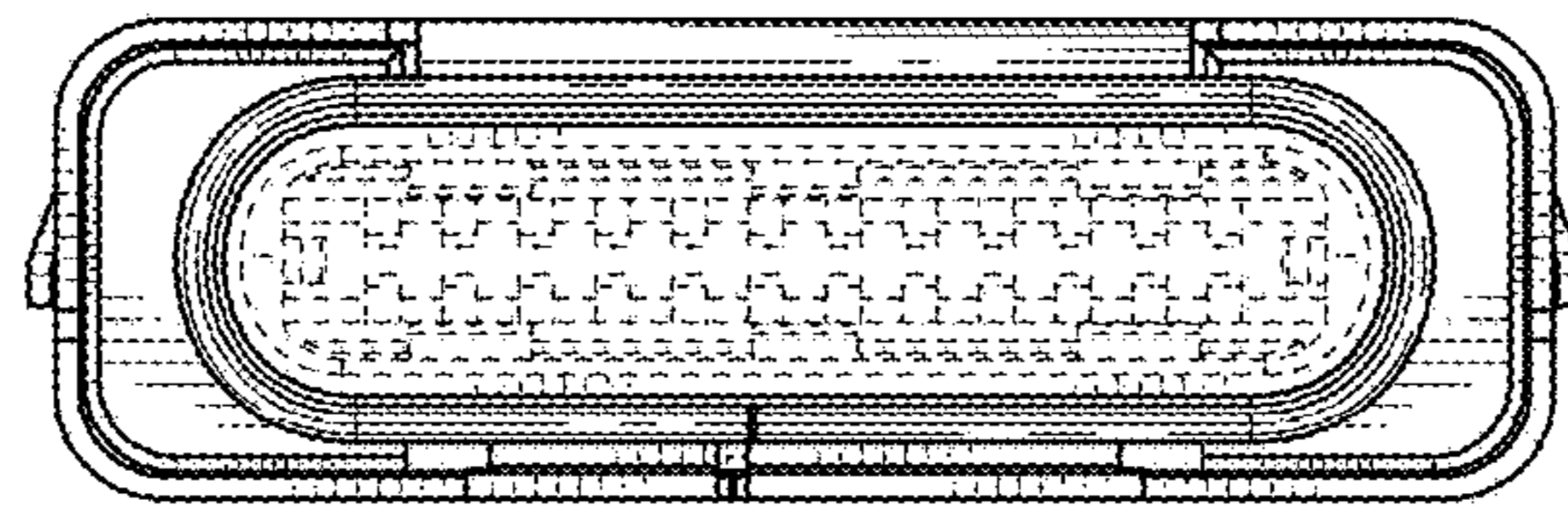


FIG. 1

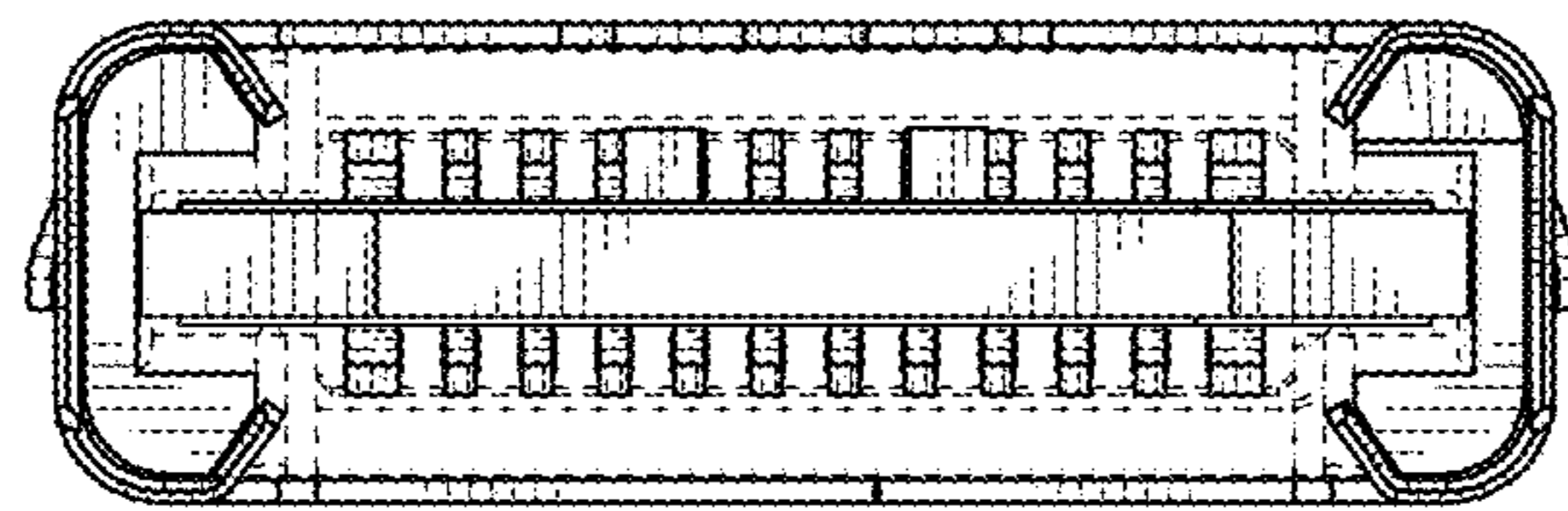


FIG. 2

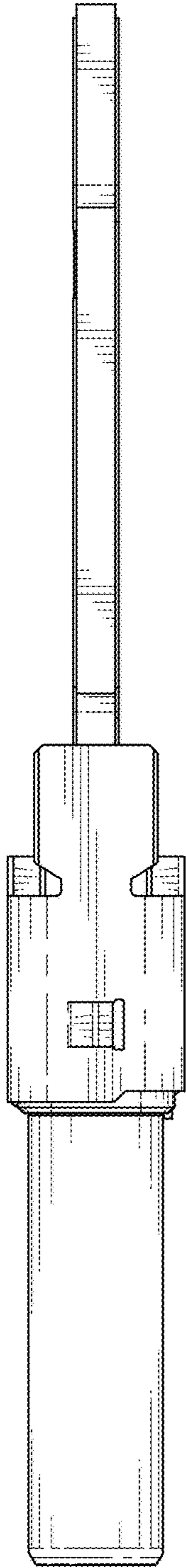


FIG. 3

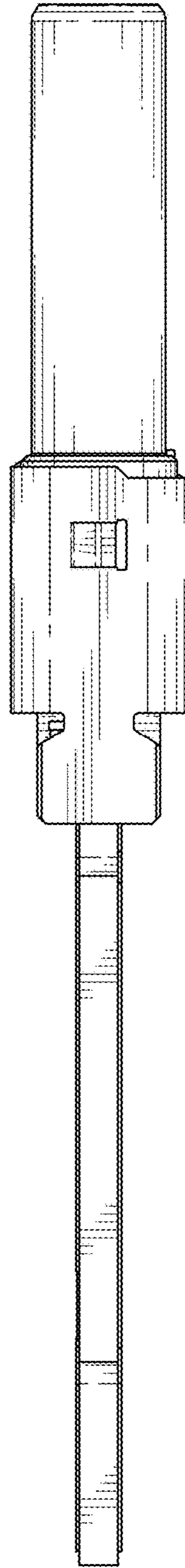


FIG. 4

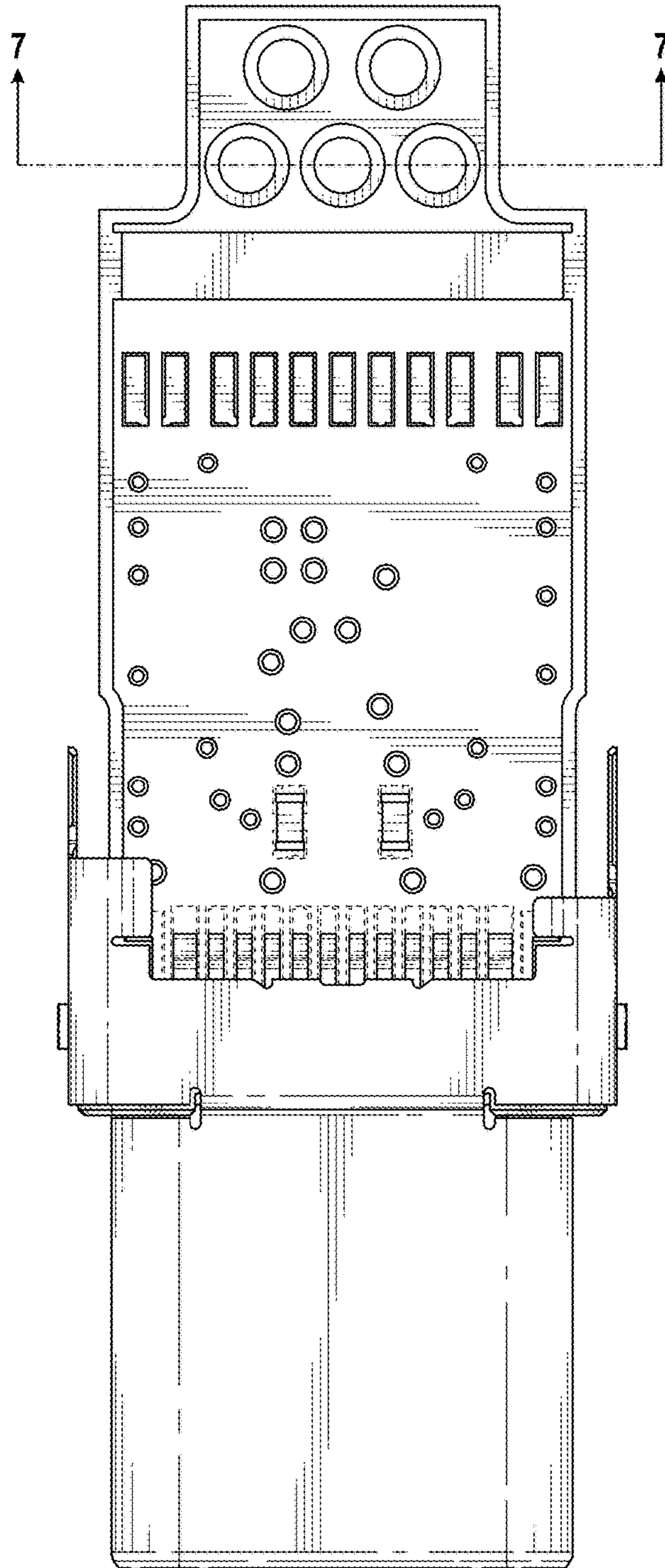


FIG. 5

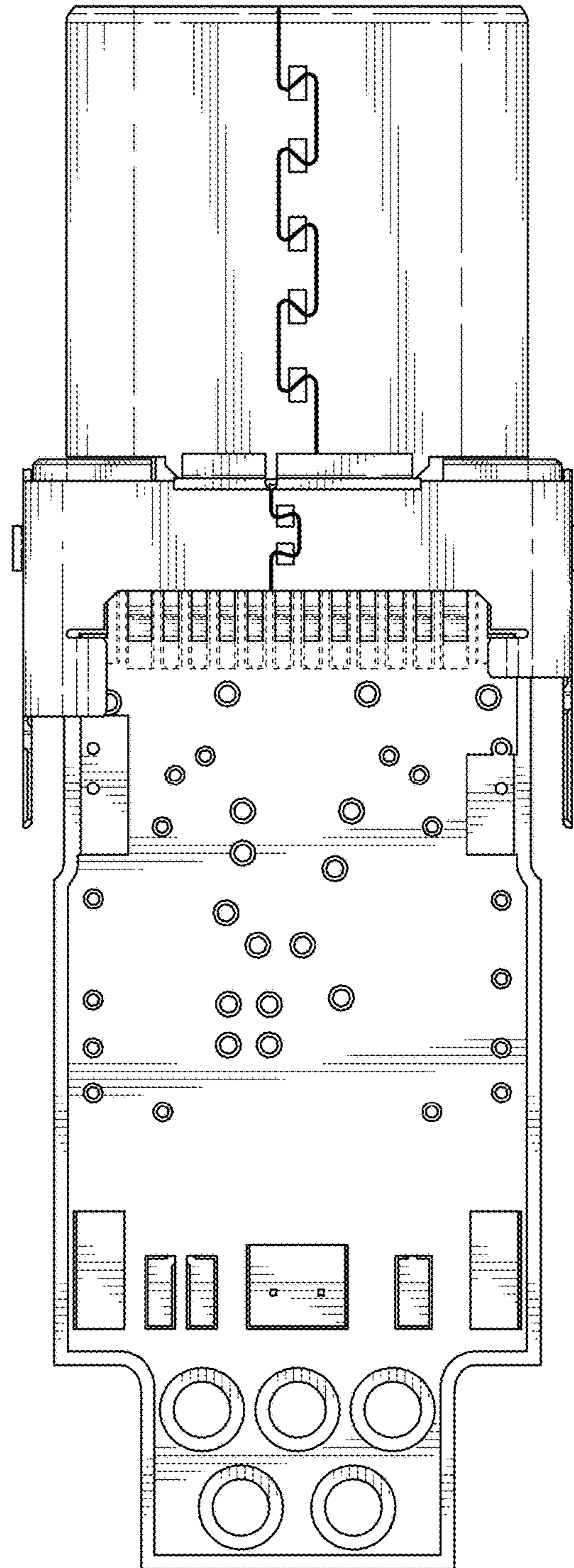


FIG. 6

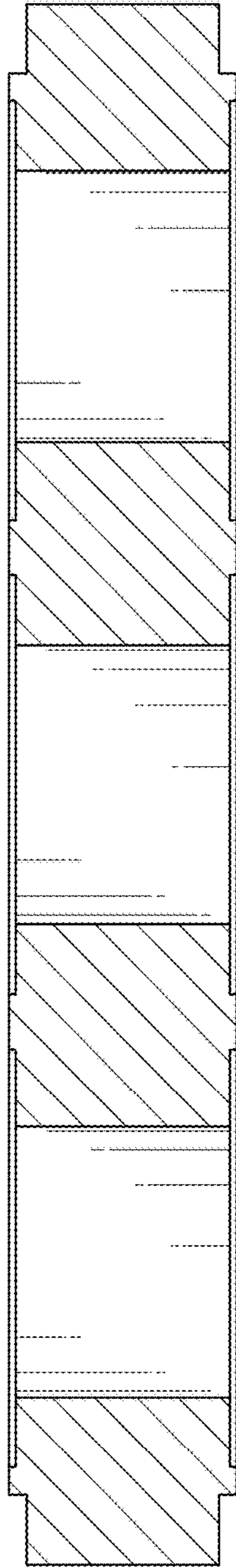


FIG. 7