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(12) **United States Design Patent** (10) **Patent No.:** **US D901,395 S**  
**Shimomaki et al.** (45) **Date of Patent:** **\*\* Nov. 10, 2020**

(54) **CONNECTOR**

(71) Applicant: **Japan Aviation Electronics Industry, Limited**, Tokyo (JP)

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(73) Assignee: **JAPAN AVIATION ELECTRONICS INDUSTRY, LIMITED**, Tokyo (JP)

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

(21) Appl. No.: **29/684,464**

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(30) **Foreign Application Priority Data**

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(51) **LOC (12) Cl.** ..... **13-03**

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

(58) **Field of Classification Search**  
USPC ..... D13/101, 107, 110, 118, 133, 147, 153,  
D13/154; D14/432, 433, 435.1  
CPC ..... H01R 12/58; H01R 24/20; H01R 24/00;  
H01R 12/592  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D328,283 S *	7/1992	Strand	.....	D13/133
D331,910 S *	12/1992	Sato	.....	D13/133
D589,455 S *	3/2009	Wu	.....	D13/147
D638,361 S *	5/2011	Sasaki	.....	D13/147
D753,602 S *	4/2016	Lin	.....	H01R 31/06 D13/147
D759,599 S *	6/2016	Kobayashi	.....	D13/147
D820,215 S *	6/2018	Kobayashi	.....	D13/147
D843,951 S *	3/2019	Lim	.....	D13/154
2011/0294349 A1 *	12/2011	Kawakami	.....	H01R 13/6593 439/607.55

(Continued)

**OTHER PUBLICATIONS**

“HDMI Connector”. Found online May 8, 2020 at response.jp. Reference dated Jun. 16, 2012. Retrieved from <https://response.jp/article/2012/02/16/170072.html>. (Year: 2012).\*

(Continued)

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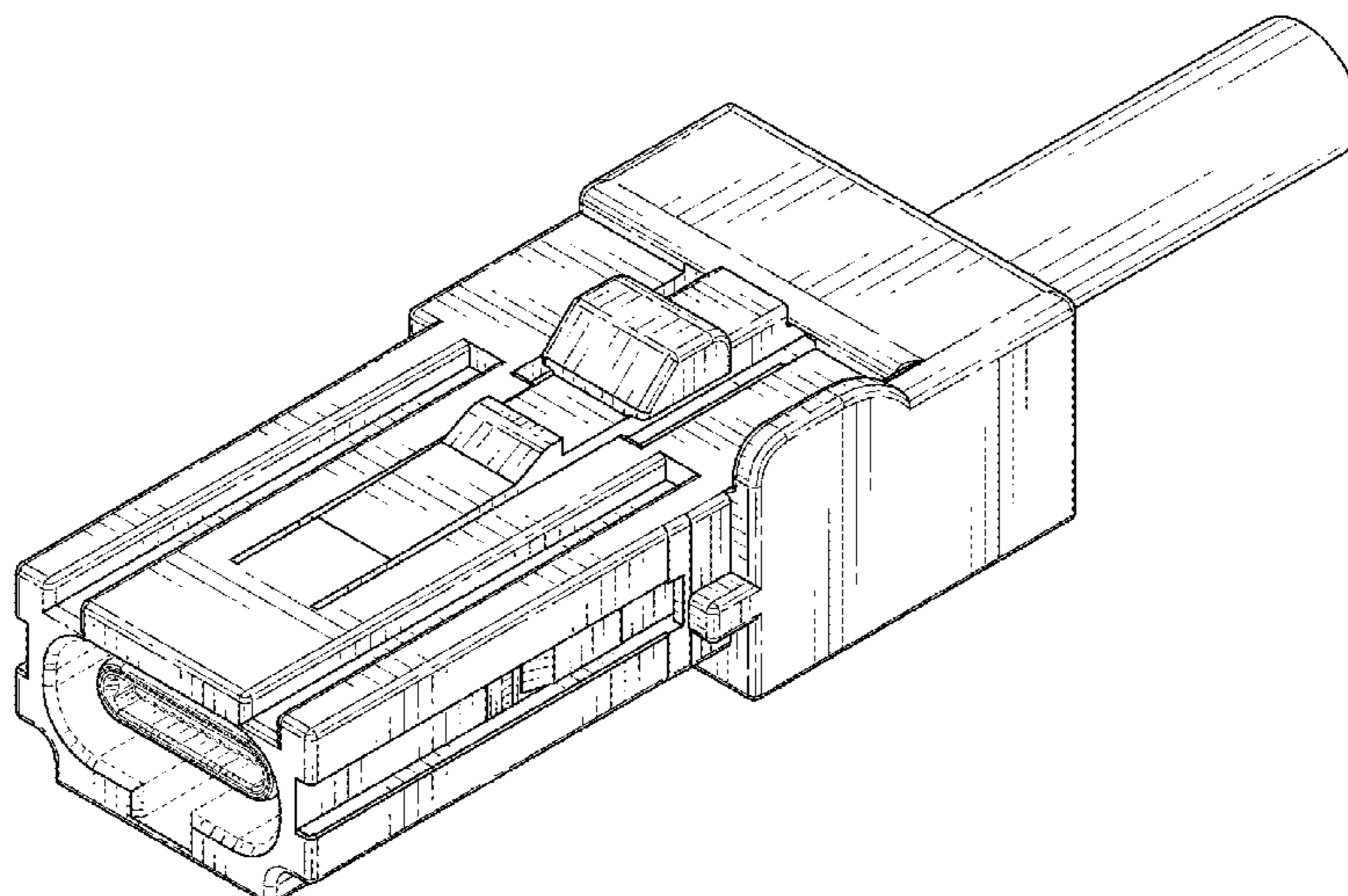
(57) **CLAIM**

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 showing a front, top and right side thereof;  
FIG. 8 is a perspective view showing a rear, bottom and left side thereof;  
FIG. 9 is a perspective view showing a front, right and bottom side thereof; and,  
FIG. 10 is a perspective view showing a rear, left and top side thereof.  
The equal-length broken lines in the drawings depict portions of the connector that form no part of the claimed design. The equal-length broken lines immediately adjacent to the shaded area define the unclaimed boundaries of the design.

**1 Claim, 5 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2016/0259135 A1\* 9/2016 Gniadek ..... G02B 6/3895  
2019/0252828 A1\* 8/2019 Miyamoto ..... H01R 13/6583  
2019/0280429 A1\* 9/2019 Azad ..... H01R 13/6272

OTHER PUBLICATIONS

“USB Media Adapter”. Found online May 8, 2020 at amazon.de. Reference dated Feb. 17, 2016. Retrieved from <https://www.amazon.de/Adapter-Mitsubishi-Stecker-Verl%C3%A4ngerung-Navigation/dp/B01BKRGIDY>. (Year: 2016).\*

“JAE MX62 Series Automotive Connector”. Found online May 8, 2020 at rutronik-tec.com. Reference dated Sep. 17, 2015. Retrieved from <https://rutronik-tec.com/jae-nnx62-series-automotive-usb-3-0-highspeed-transmission-connector/>. (Year: 2015).\*

\* cited by examiner

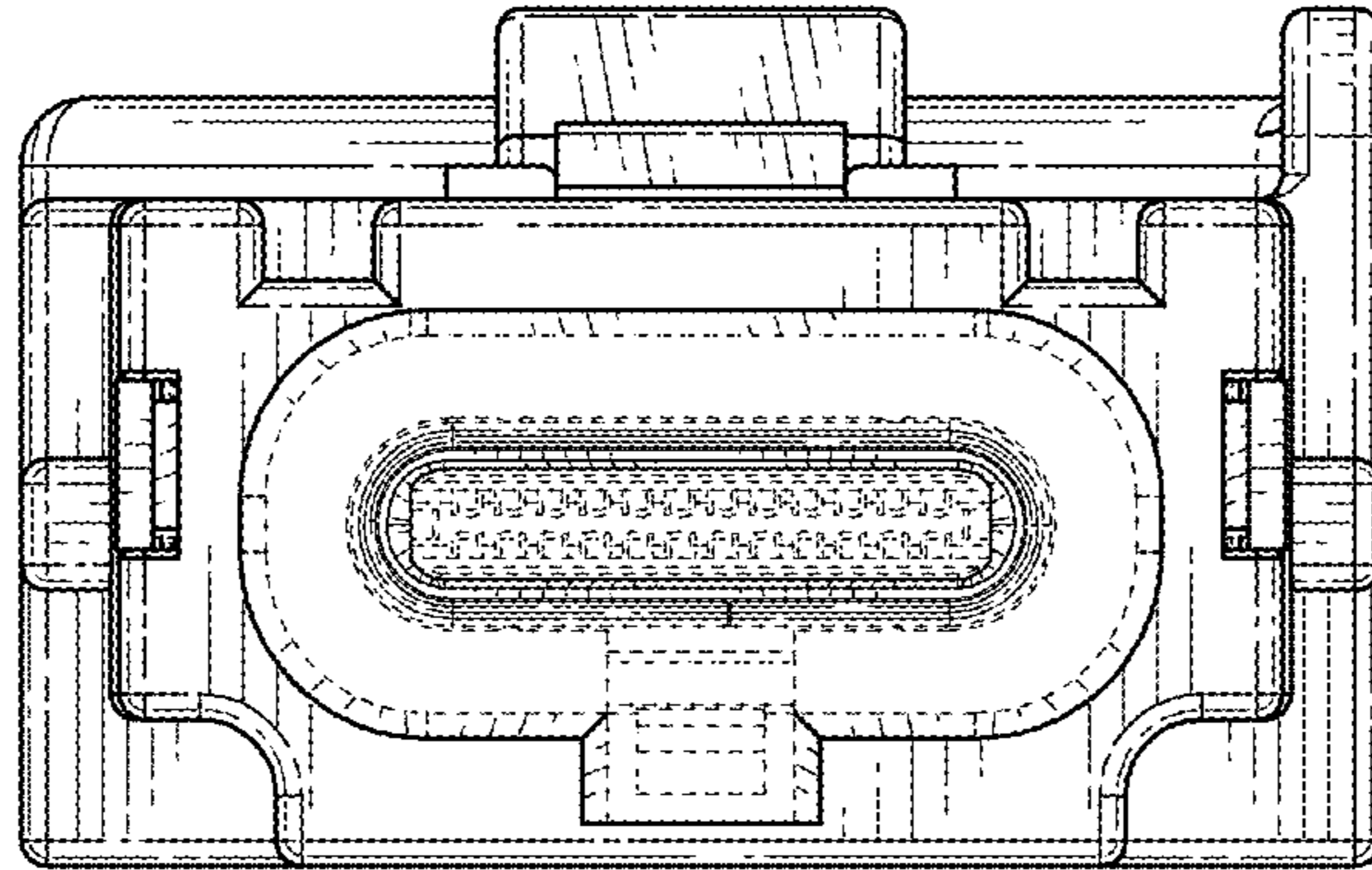


FIG. 1

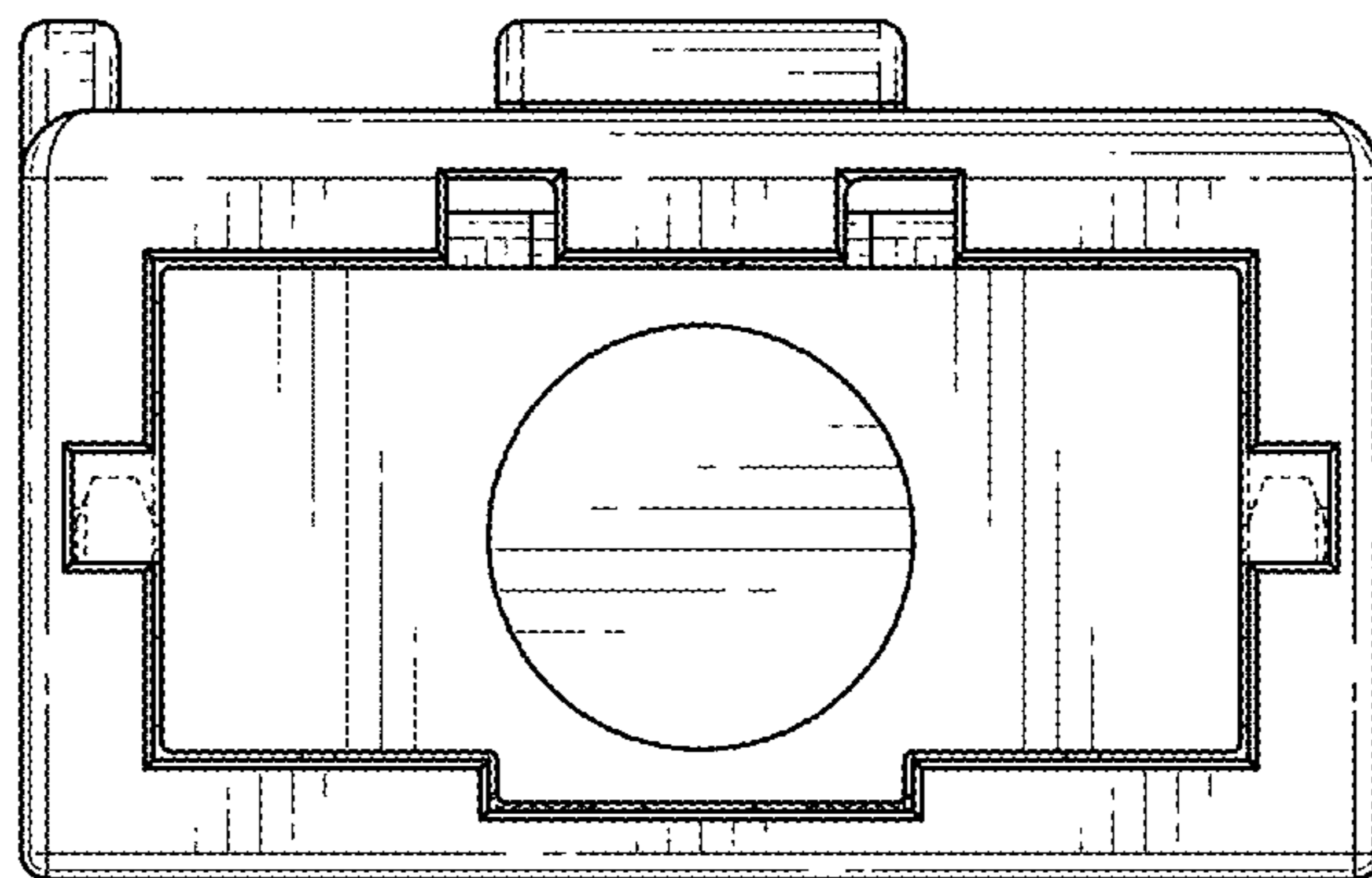


FIG. 2

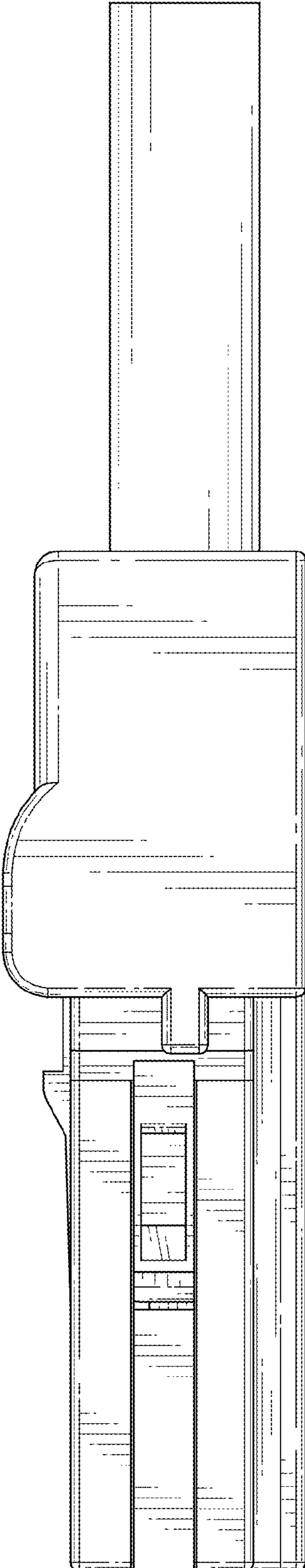


FIG. 3

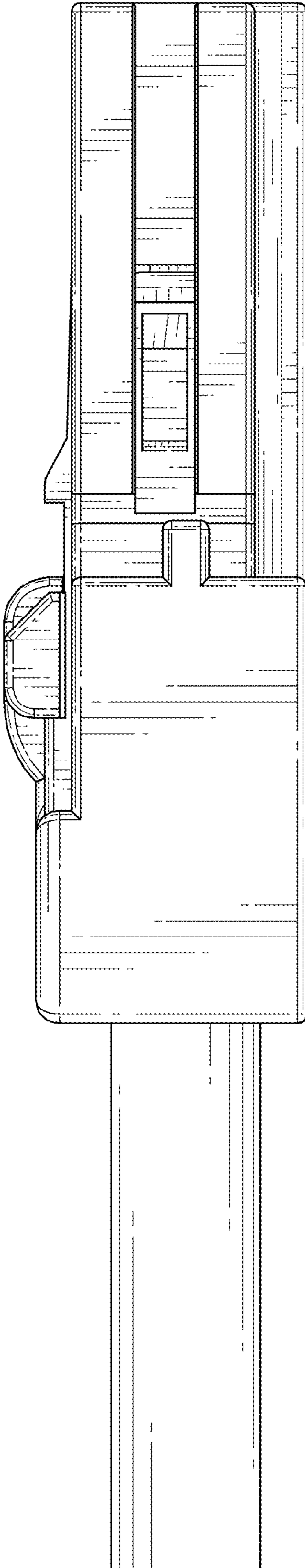


FIG. 4

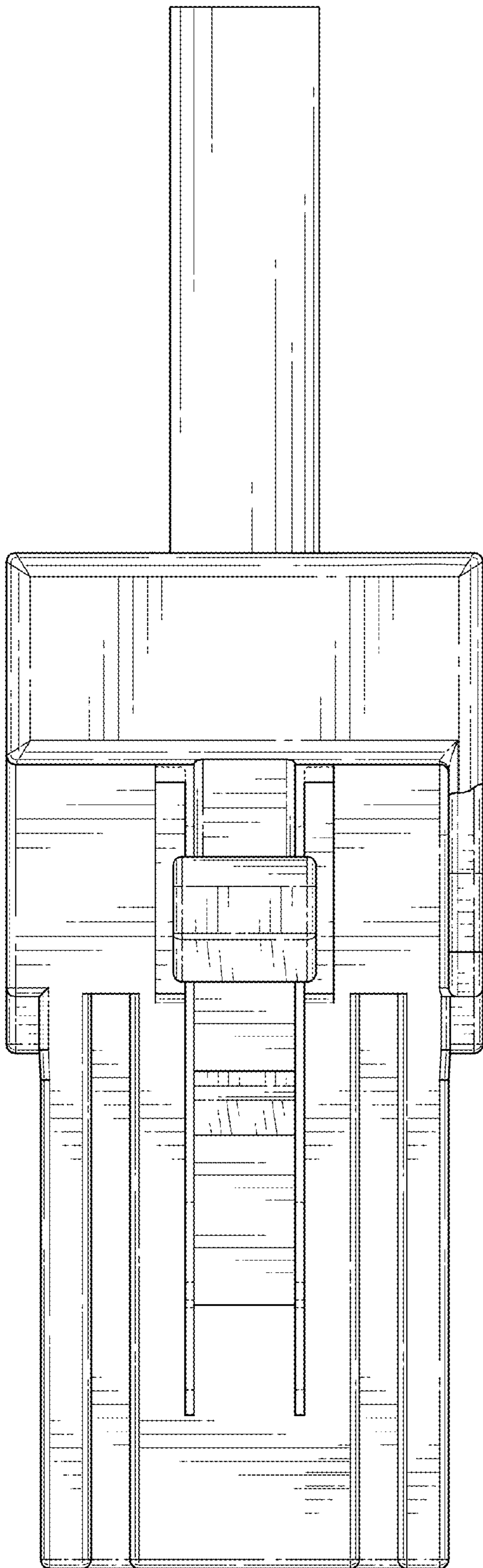


FIG. 5

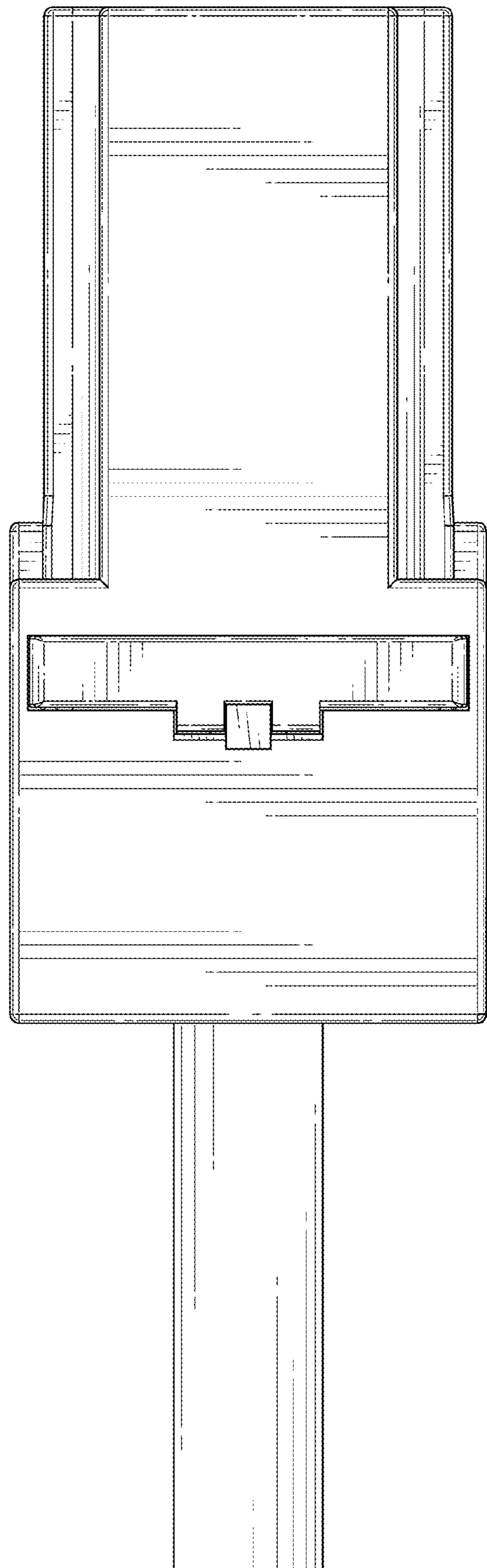


FIG. 6

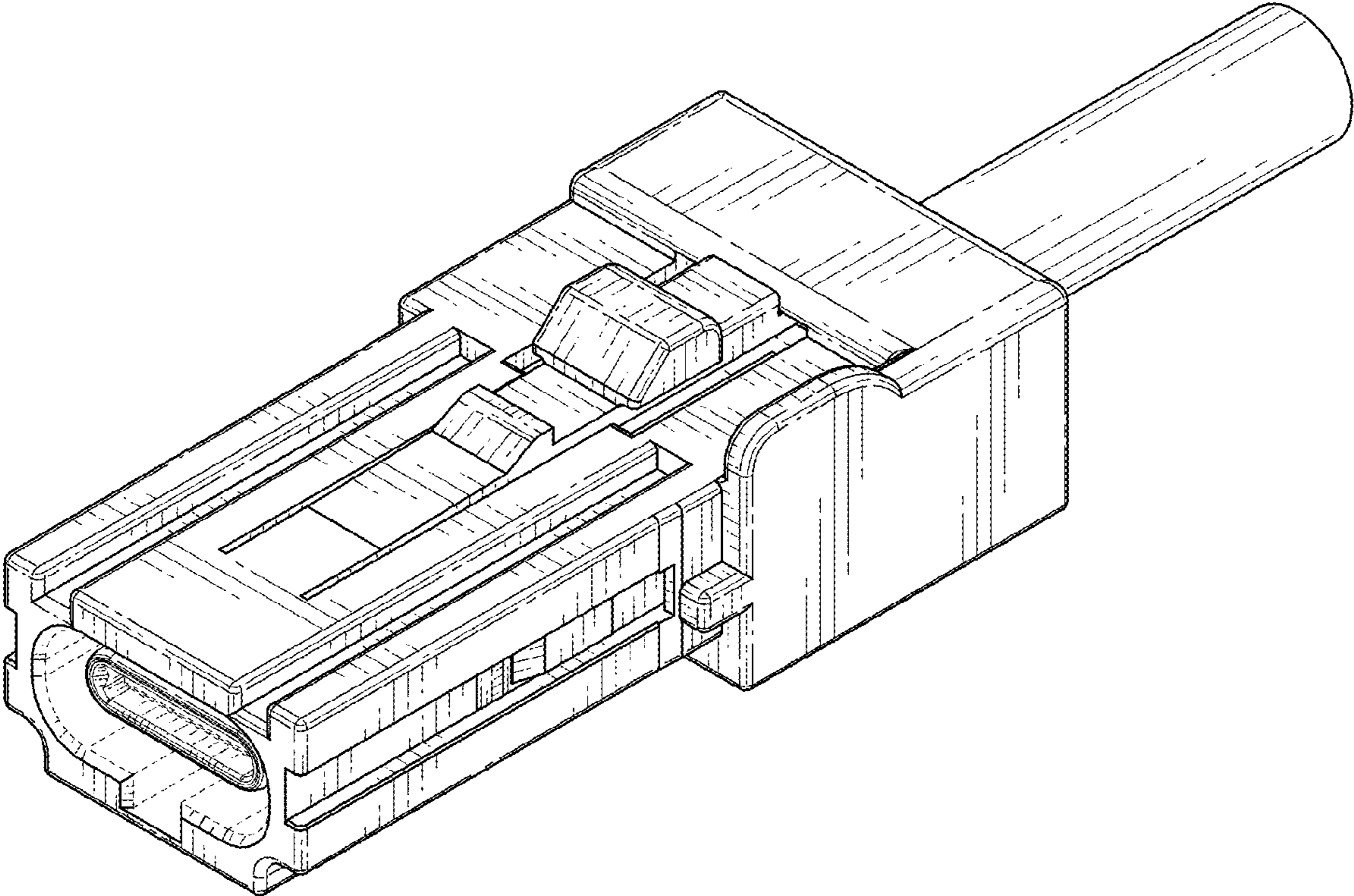


FIG. 7

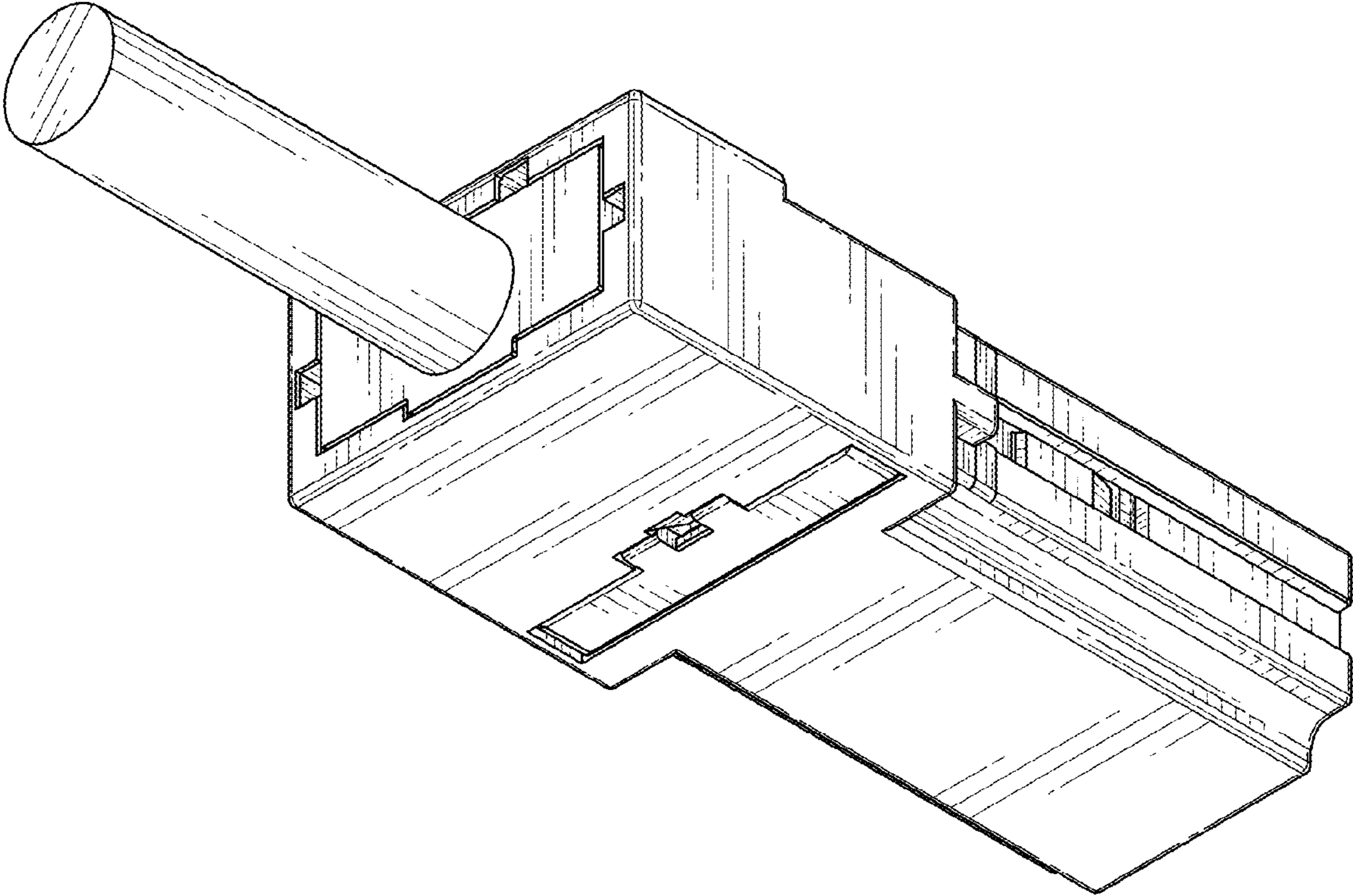


FIG. 8

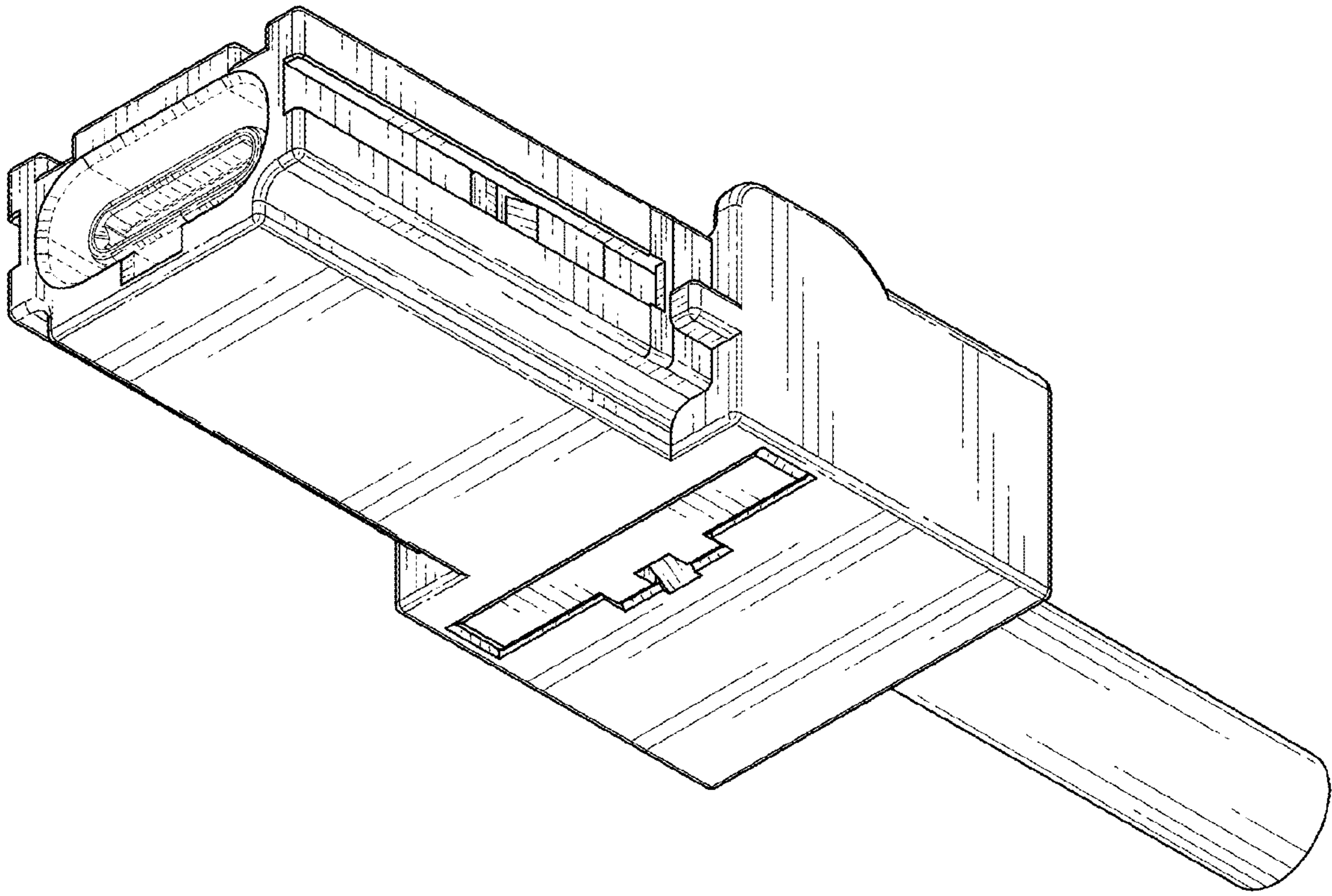


FIG. 9

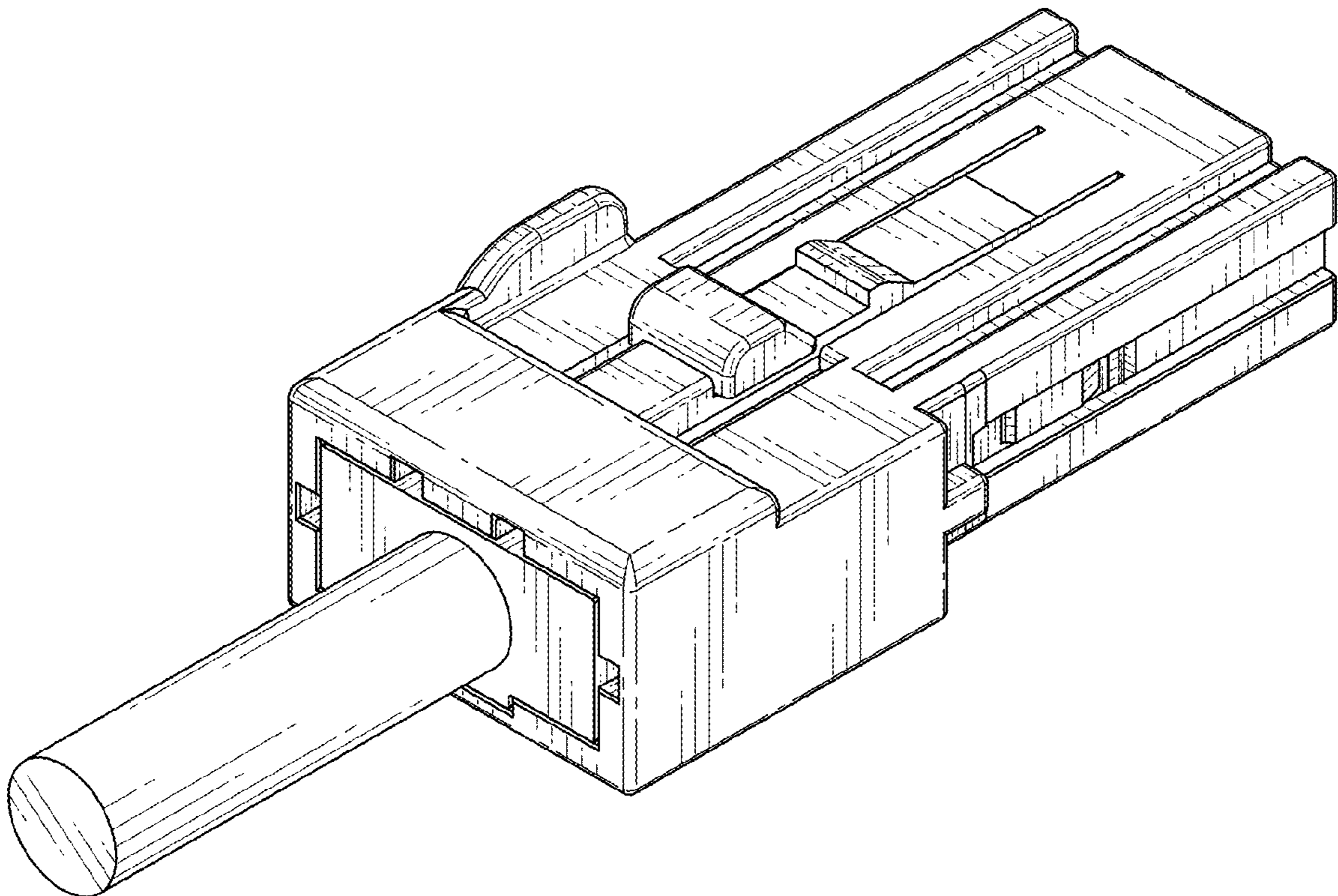


FIG. 10