

US00D894842S

(12) **United States Design Patent** (10) **Patent No.:** **US D894,842 S**  
**Ashibu et al.** (45) **Date of Patent:** **\*\* Sep. 1, 2020**

(54) **ELECTRICAL CONNECTOR**  
(71) Applicant: **Japan Aviation Electronics Industry, Limited, Tokyo (JP)**  
(72) Inventors: **Kenta Ashibu, Tokyo (JP); Takayuki Nishimura, Tokyo (JP); Toshiro Kobuchi, Tokyo (JP)**  
(73) Assignee: **JAPAN AVIATION ELECTRONICS INDUSTRY, LIMITED, Tokyo (JP)**  
(\*\*) Term: **15 Years**

(21) Appl. No.: **29/695,548**

(22) Filed: **Jun. 20, 2019**

(30) **Foreign Application Priority Data**

Dec. 28, 2018 (JP) ..... 2018-028891

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

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

(58) **Field of Classification Search**  
USPC ..... D13/123, 133, 146, 147, 149, 154, 156, D13/173, 184, 199  
CPC ..... H01R 12/22; H01R 12/36; H01R 12/70; H01R 12/71; H01R 13/11; H01R 13/115; H01R 13/24; H01R 13/41; H01R 13/52; H01R 13/627; H01R 13/631; H01R 13/635

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D539,225 S \* 3/2007 Kishi ..... D13/147  
D603,801 S \* 11/2009 Obikane ..... D13/147  
D684,120 S \* 6/2013 Miyazaki ..... D13/147  
D687,383 S \* 8/2013 Miyazaki ..... D13/147  
D695,691 S \* 12/2013 Kobuchi ..... D13/147

8,845,339 B2 \* 9/2014 Ono ..... H01R 12/7052 439/74  
D722,564 S \* 2/2015 Yoshida ..... D13/147  
D722,973 S \* 2/2015 Miyazaki ..... D13/147  
D735,674 S \* 8/2015 Miyazaki ..... D13/147  
D739,826 S \* 9/2015 Omodachi ..... D13/147  
D767,499 S \* 9/2016 Goto ..... D13/147  
D774,463 S \* 12/2016 Omodachi ..... D13/147  
D793,342 S \* 8/2017 Ashibu ..... D13/147  
D816,043 S \* 4/2018 Ashibu ..... D13/147  
D828,306 S \* 9/2018 Horino ..... D13/147  
D828,307 S \* 9/2018 Ashibu ..... D13/147  
2010/0267287 A1 \* 10/2010 Ishikawa ..... H01R 13/20 439/700  
2015/0263464 A1 \* 9/2015 Arichika ..... H01R 12/7029 439/374

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP 2014110156 A \* 6/2014 ..... H01R 12/716

*Primary Examiner* — Angela J Lee

*Assistant Examiner* — Shawn T Gingrich

(74) *Attorney, Agent, or Firm* — Manabu Kanesaka

(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;

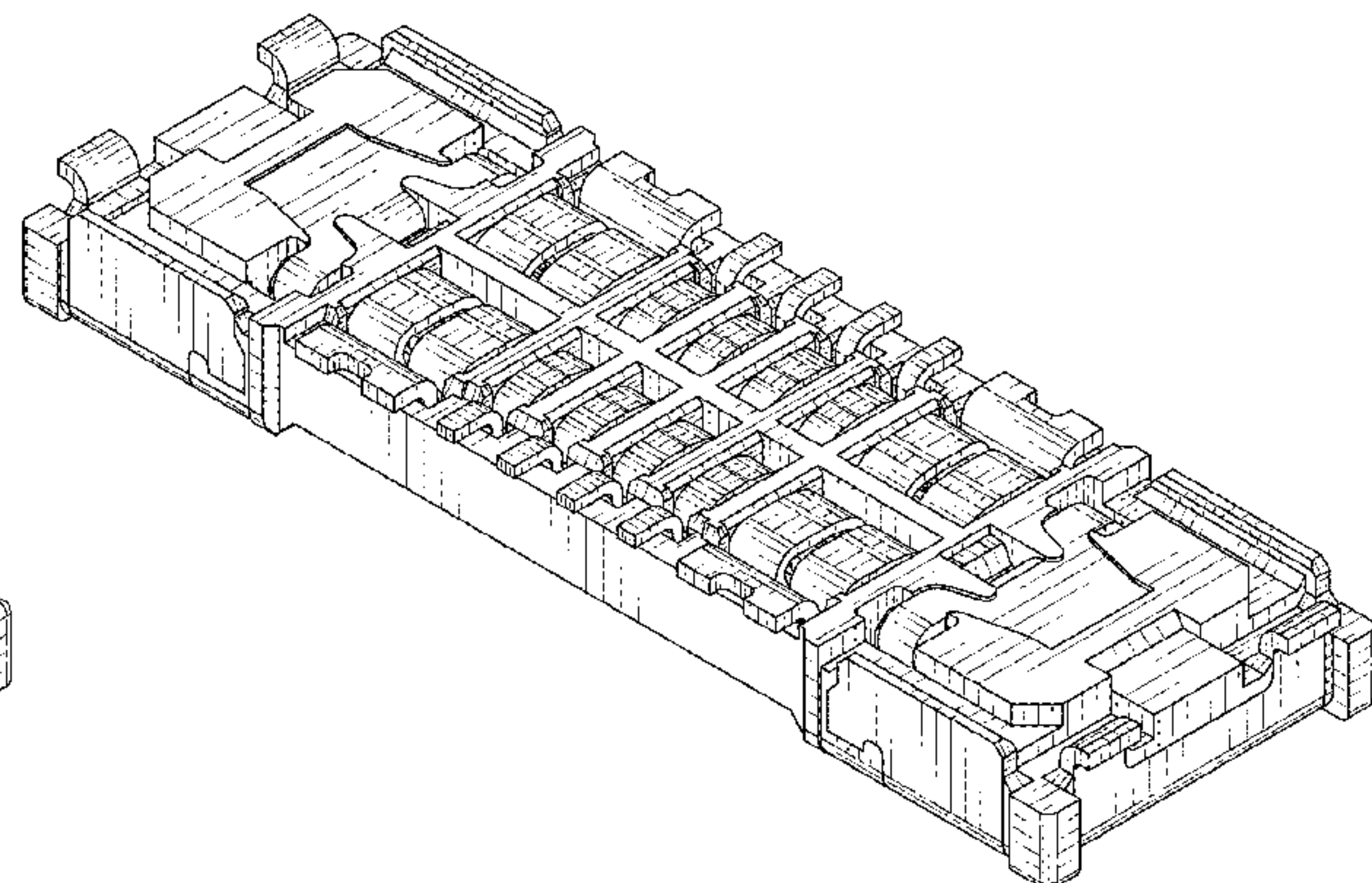
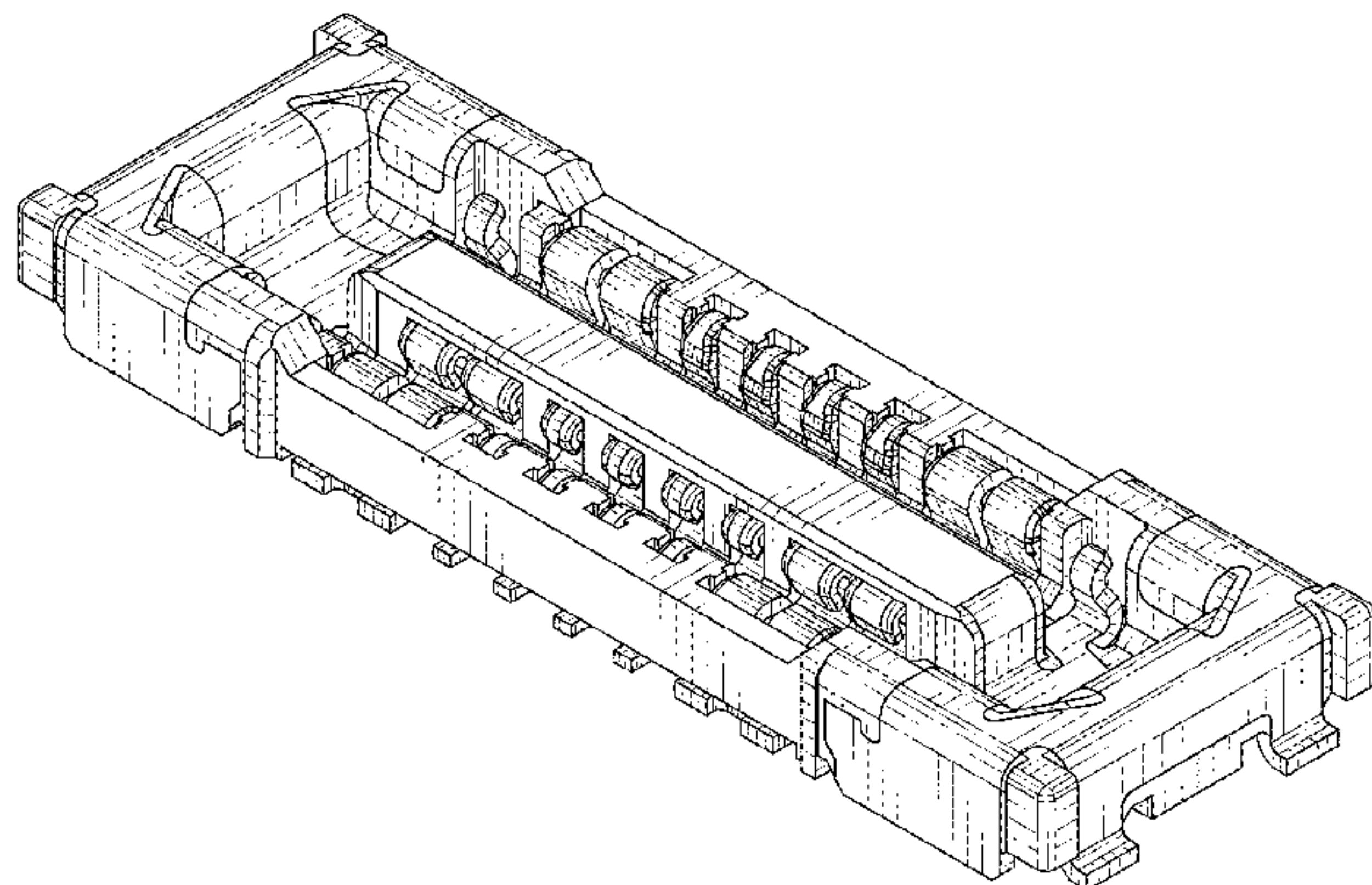
FIG. 5 is a top plan view thereof;

FIG. 6 is a bottom plan view thereof;

FIG. 7 is a perspective view showing a front, top and right side thereof; and,

FIG. 8 is a perspective view showing a rear, bottom and left side thereof.

**1 Claim, 4 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2015/0270641 A1\* 9/2015 Omodachi ..... H01R 13/629  
439/374  
2016/0315430 A1\* 10/2016 Takeuchi ..... H01R 12/00  
2017/0264048 A1\* 9/2017 Ashibu ..... H01R 12/716  
2017/0365944 A1\* 12/2017 Yoshioka ..... H01R 12/716  
2018/0069331 A1\* 3/2018 Hirakawa ..... H01R 12/57  
2020/0106200 A1\* 4/2020 Ishida ..... H01R 12/716

\* cited by examiner

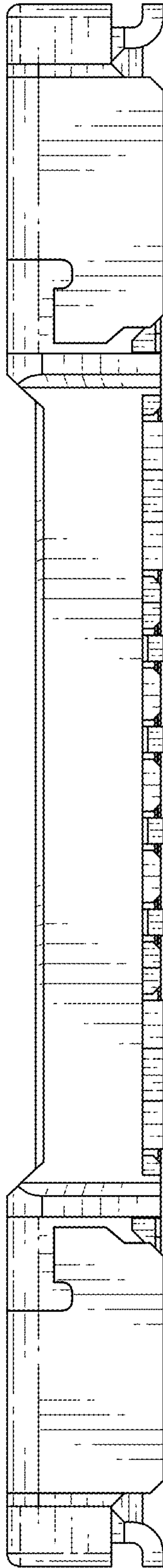


FIG. 1

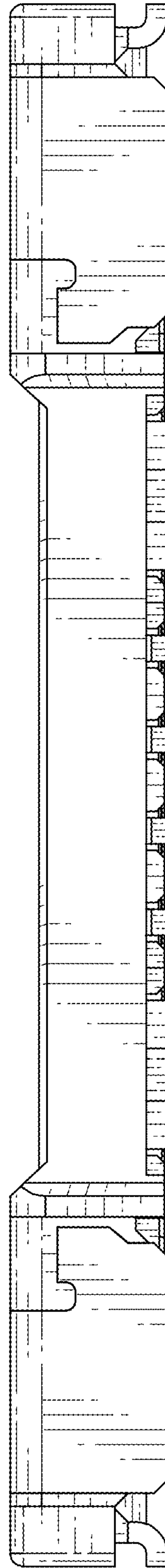


FIG. 2

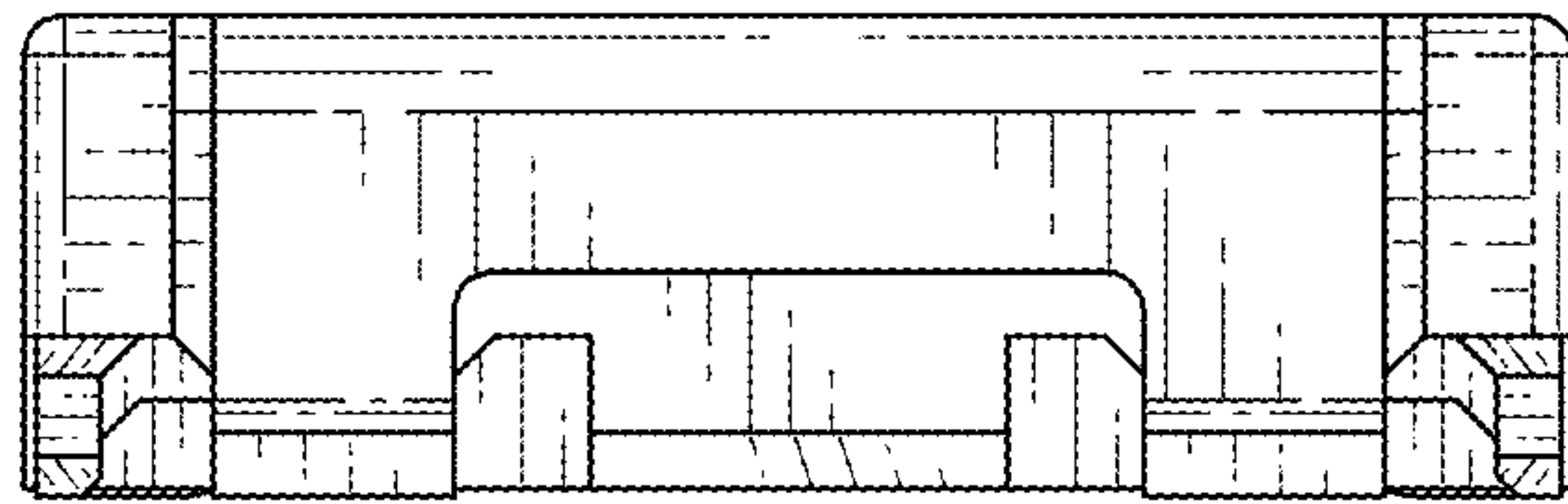


FIG. 3

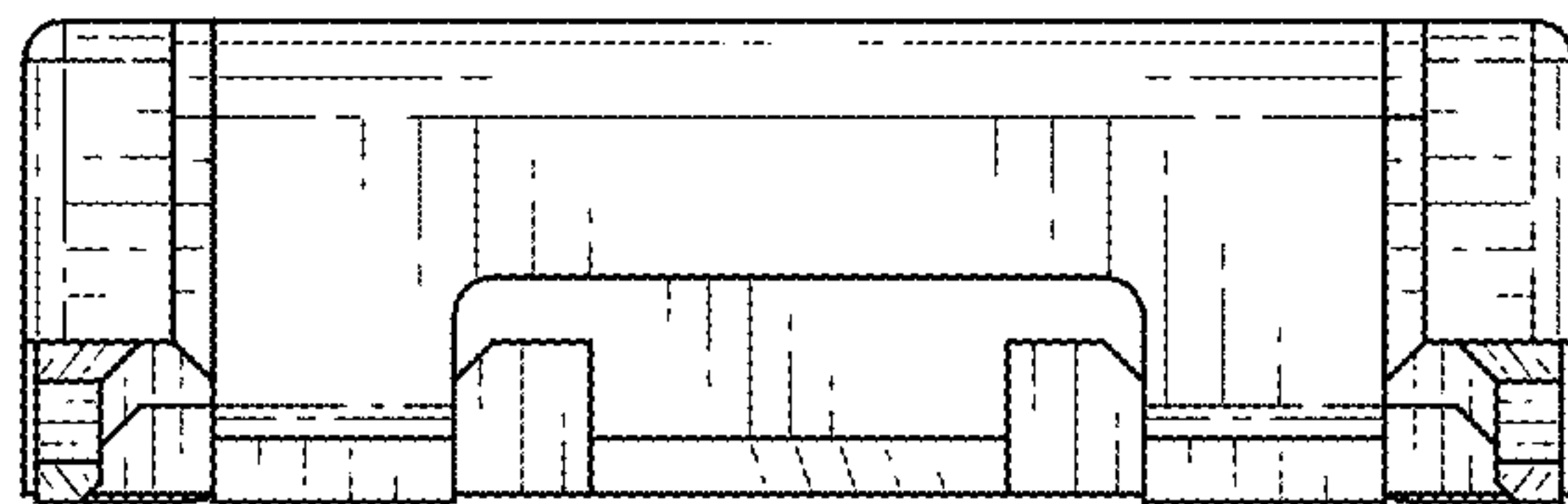


FIG. 4



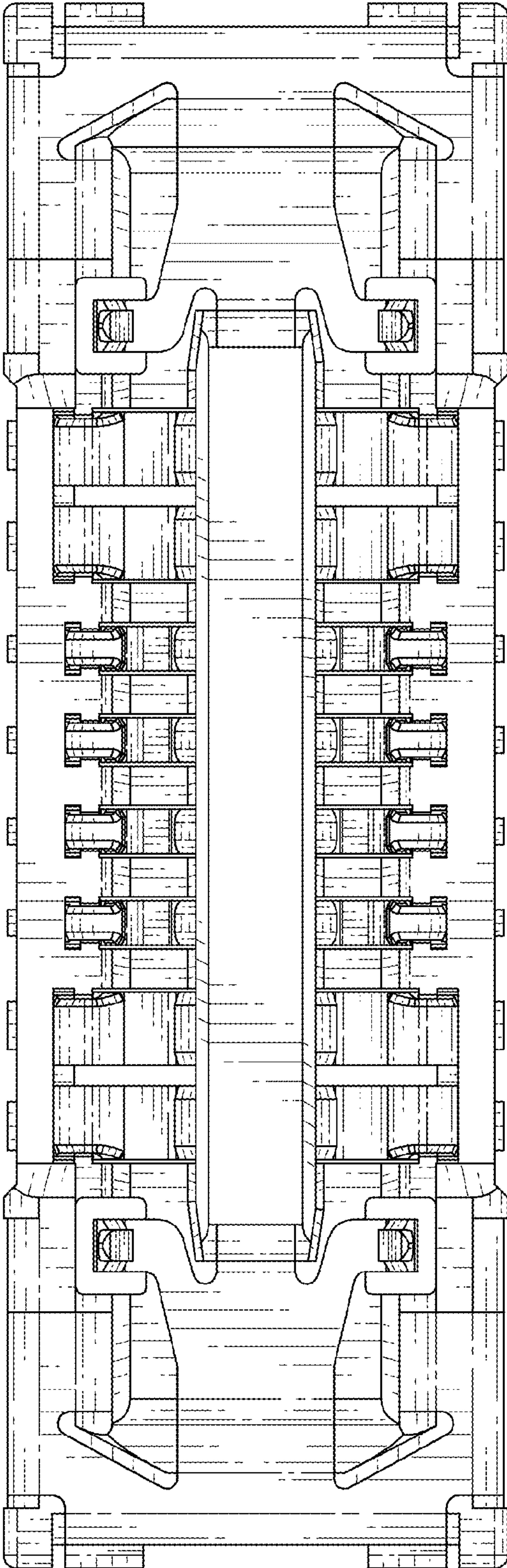


FIG. 5

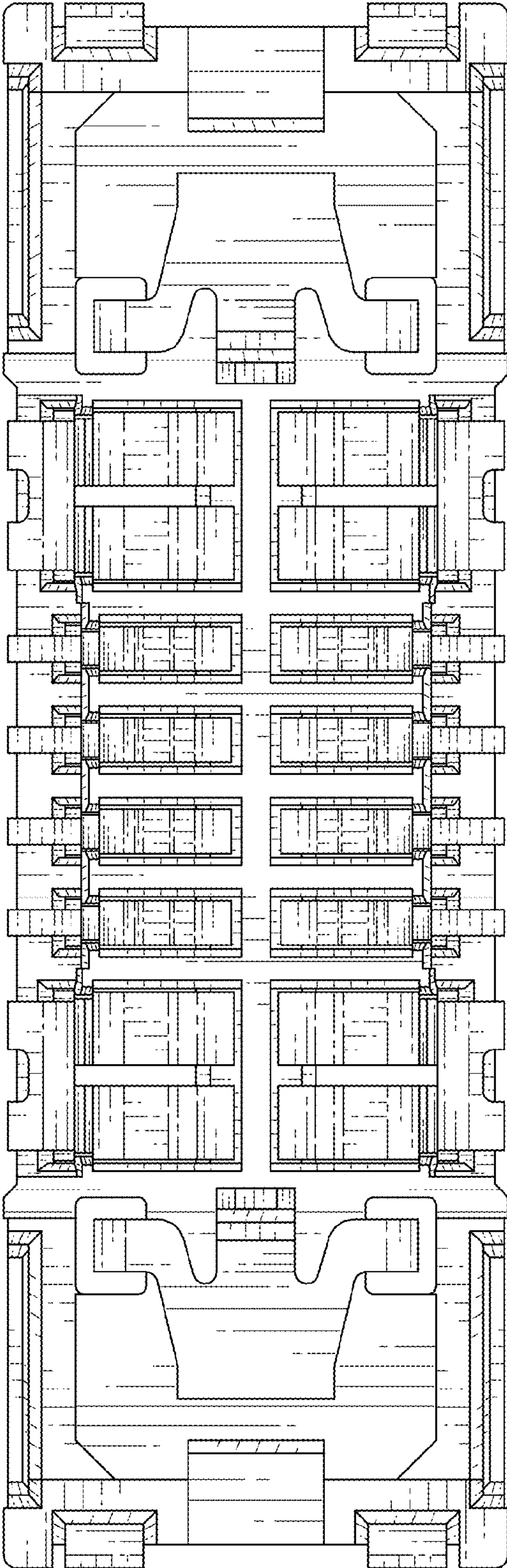


FIG. 6



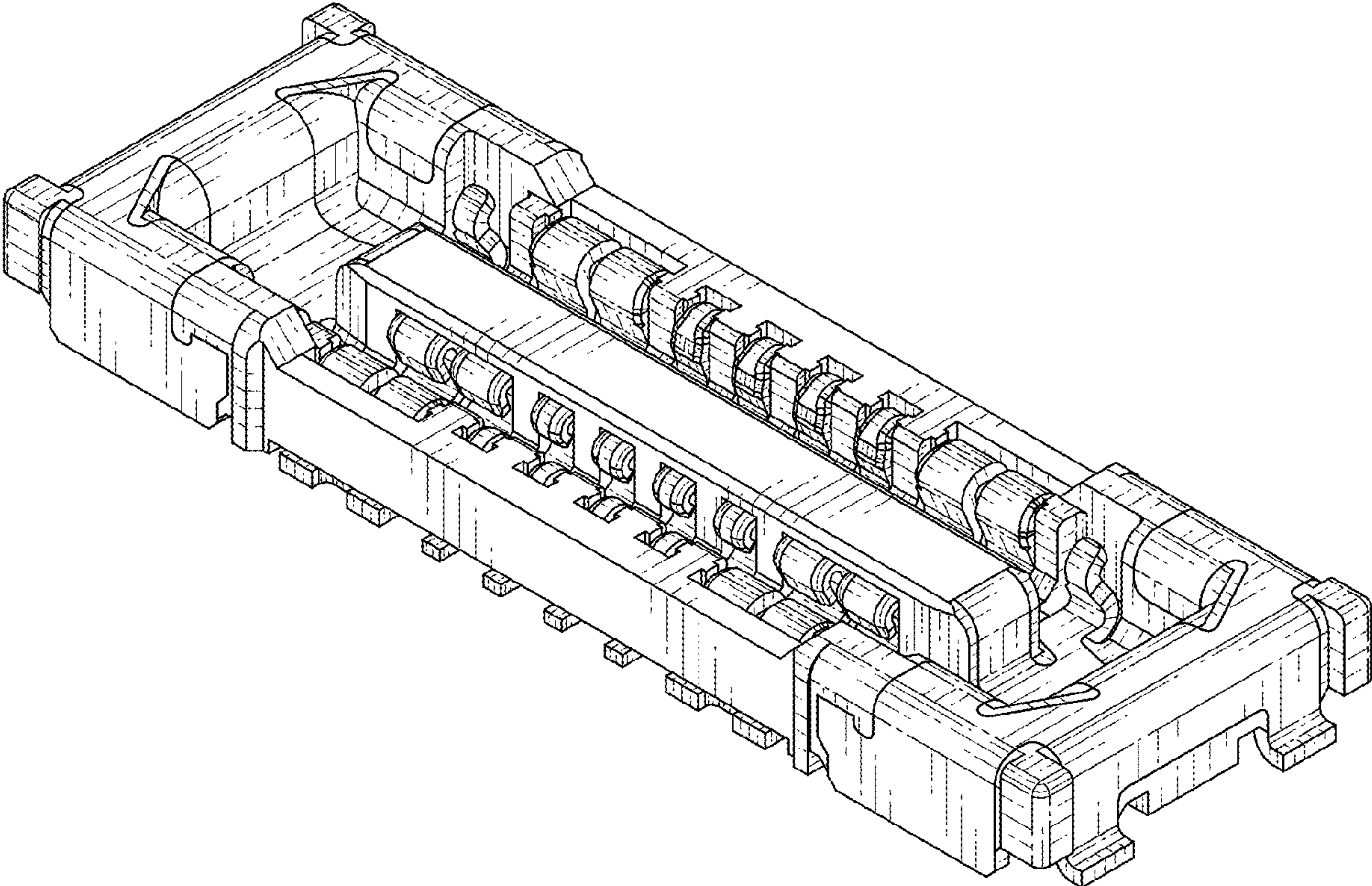


FIG. 7

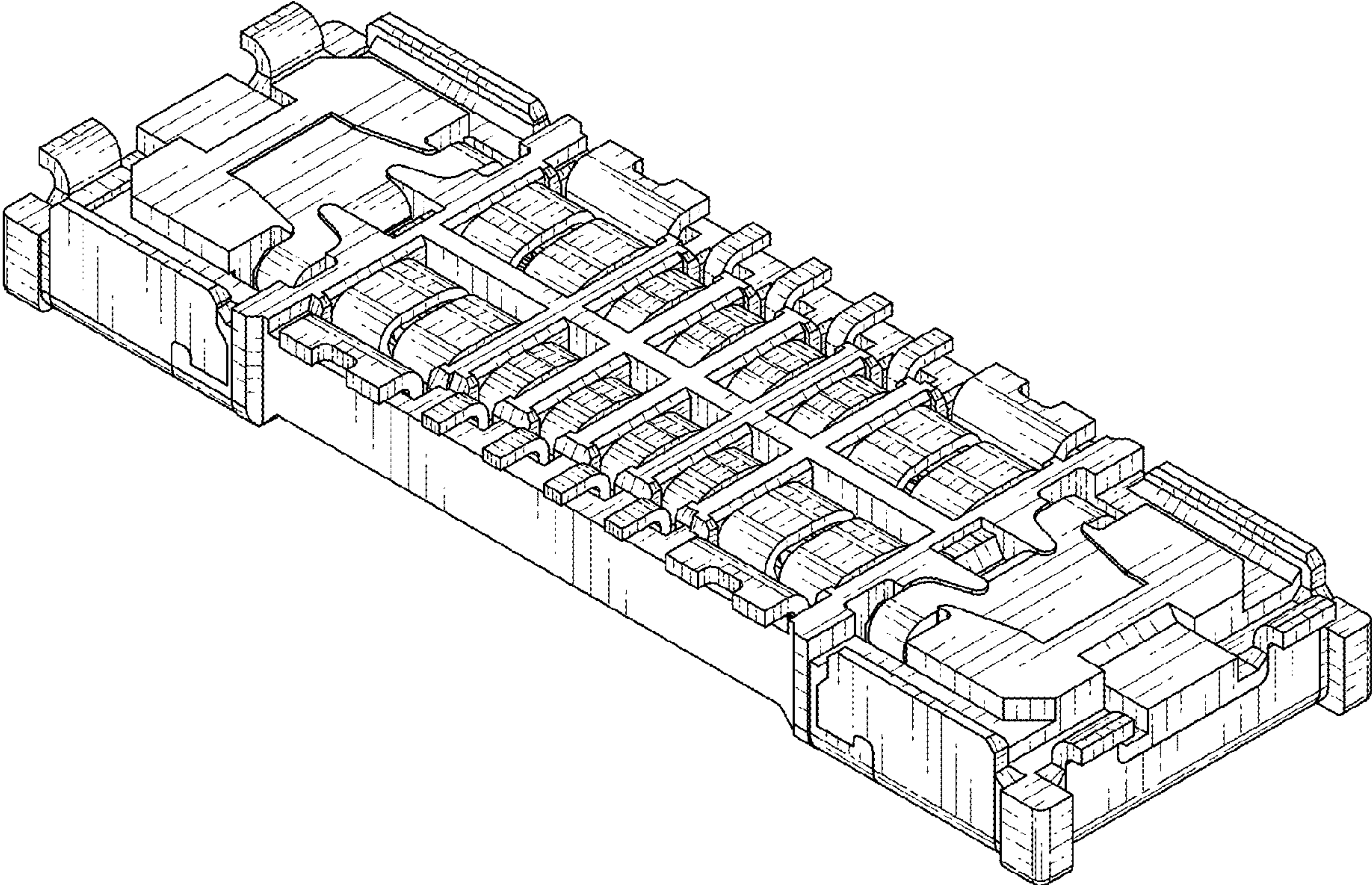


FIG. 8