



US00D712843S

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

(10) **Patent No.:** **US D712,843 S**  
(45) **Date of Patent:** **\*\* Sep. 9, 2014**

(54) **VERTICAL ELECTRICAL CONNECTOR HOUSING**

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(\*\*) Term: **14 Years**

(21) Appl. No.: **29/443,759**

(22) Filed: **Jan. 22, 2013**

(51) **LOC (10) Cl.** ..... **13-03**

(52) **U.S. Cl.**  
USPC ..... **D13/154; D13/147**

(58) **Field of Classification Search**  
USPC ..... D13/146, 147, 149, 154, 184, 199;  
439/74, 108, 180, 252, 258, 246, 278,  
439/374, 378, 379, 381, 527, 529, 533, 660,  
439/717, 865-894, 953; 174/16.3; 257/697,  
257/727; 361/769

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D210,829 S \* 4/1968 Hanlon et al. .... D13/147  
D213,697 S \* 4/1969 Oxley ..... D13/147  
D402,637 S \* 12/1998 Carpenter, Jr. .... D13/178  
6,461,202 B2 10/2002 Kline

6,960,103 B2 \* 11/2005 Tokunaga ..... 439/607.13  
6,994,569 B2 2/2006 Minich et al.  
7,118,391 B2 10/2006 Minich et al.  
D550,628 S \* 9/2007 Whiteman et al. .... D13/147  
7,278,856 B2 10/2007 Minich  
7,338,321 B2 3/2008 Laurx  
7,549,897 B2 6/2009 Fedder et al.  
D611,420 S \* 3/2010 Takada et al. .... D13/147  
D611,421 S \* 3/2010 Takada et al. .... D13/147  
D611,905 S \* 3/2010 Takada et al. .... D13/147  
D611,906 S \* 3/2010 Takada et al. .... D13/147  
8,408,939 B2 4/2013 Davis et al.  
2004/0259420 A1 12/2004 Wu  
2007/0190825 A1 \* 8/2007 Shuey et al. .... 439/108  
2009/0068902 A1 \* 3/2009 Nagata ..... 439/717  
2012/0214343 A1 8/2012 Buck et al.

\* cited by examiner

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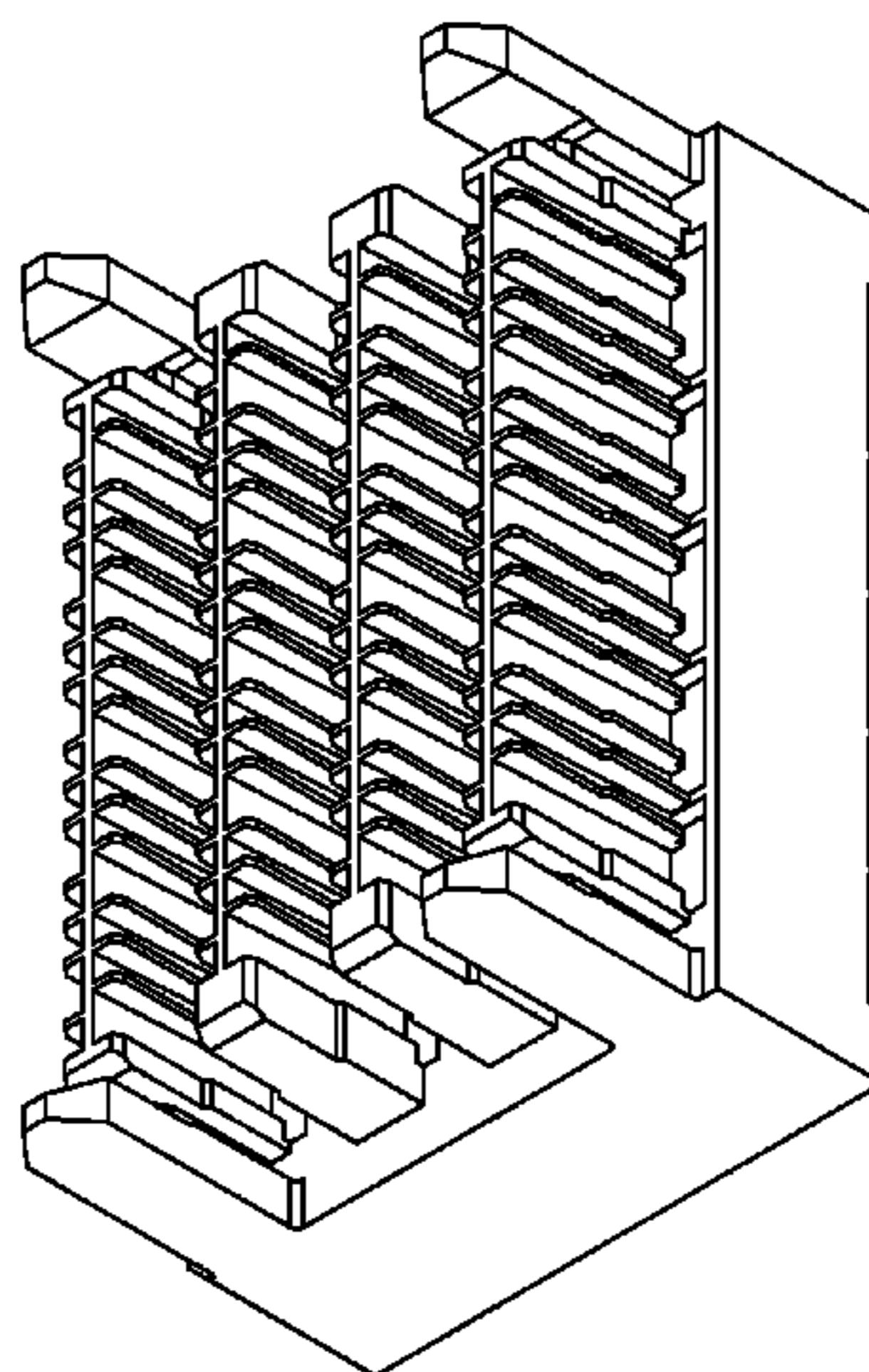
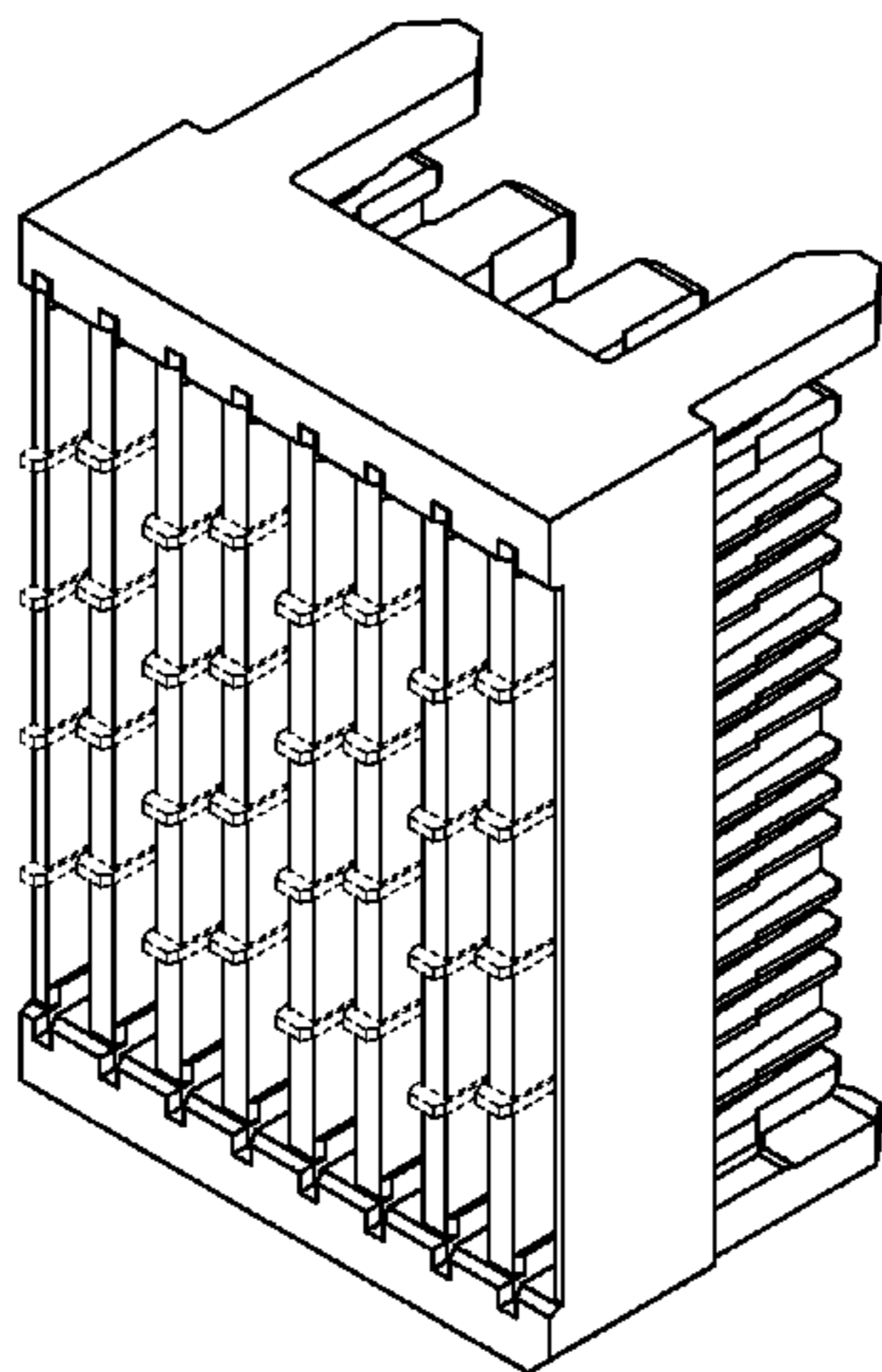
(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a top, left, rear perspective view of a vertical electrical connector housing showing our new design;  
FIG. 2 is a bottom, right, front perspective view thereof;  
FIG. 3 is another top, left, rear perspective view thereof;  
FIG. 4 is a bottom, right, rear perspective view thereof;  
FIG. 5 is a top, right, front perspective view thereof;  
FIG. 6 is a bottom, left, front perspective view thereof;  
FIG. 7 is a rear elevation view thereof;  
FIG. 8 is a front elevation view thereof;  
FIG. 9 is a bottom plan view thereof;  
FIG. 10 is a top plan view thereof;  
FIG. 11 is a right side elevation view thereof; and,  
FIG. 12 is a left side elevation view thereof.  
In the drawing views, the even-broken line represents unclaimed environment and forms no part of the claimed design. The dash-dot line represents the boundary of the claimed design.

**1 Claim, 6 Drawing Sheets**



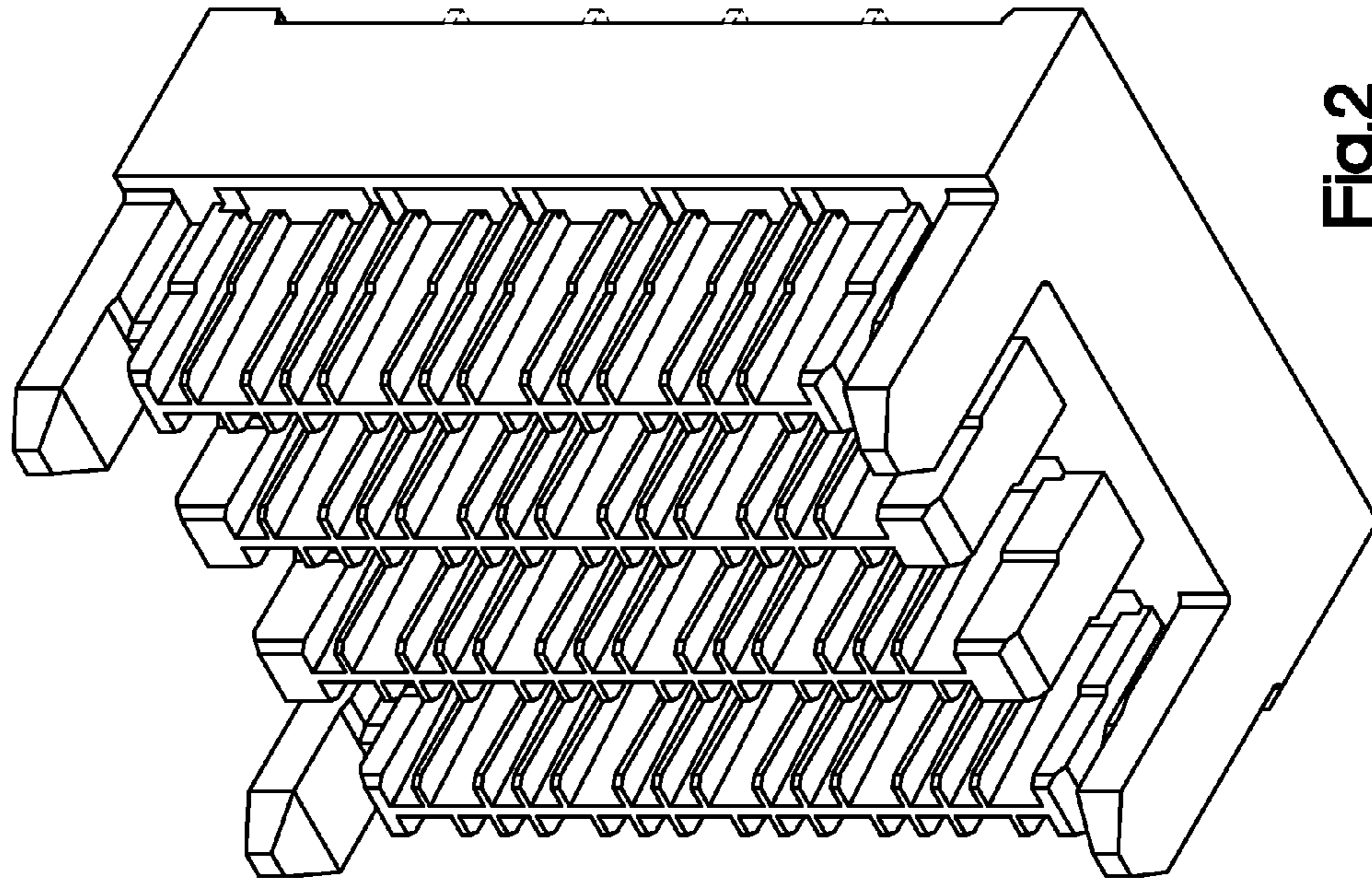


Fig.2

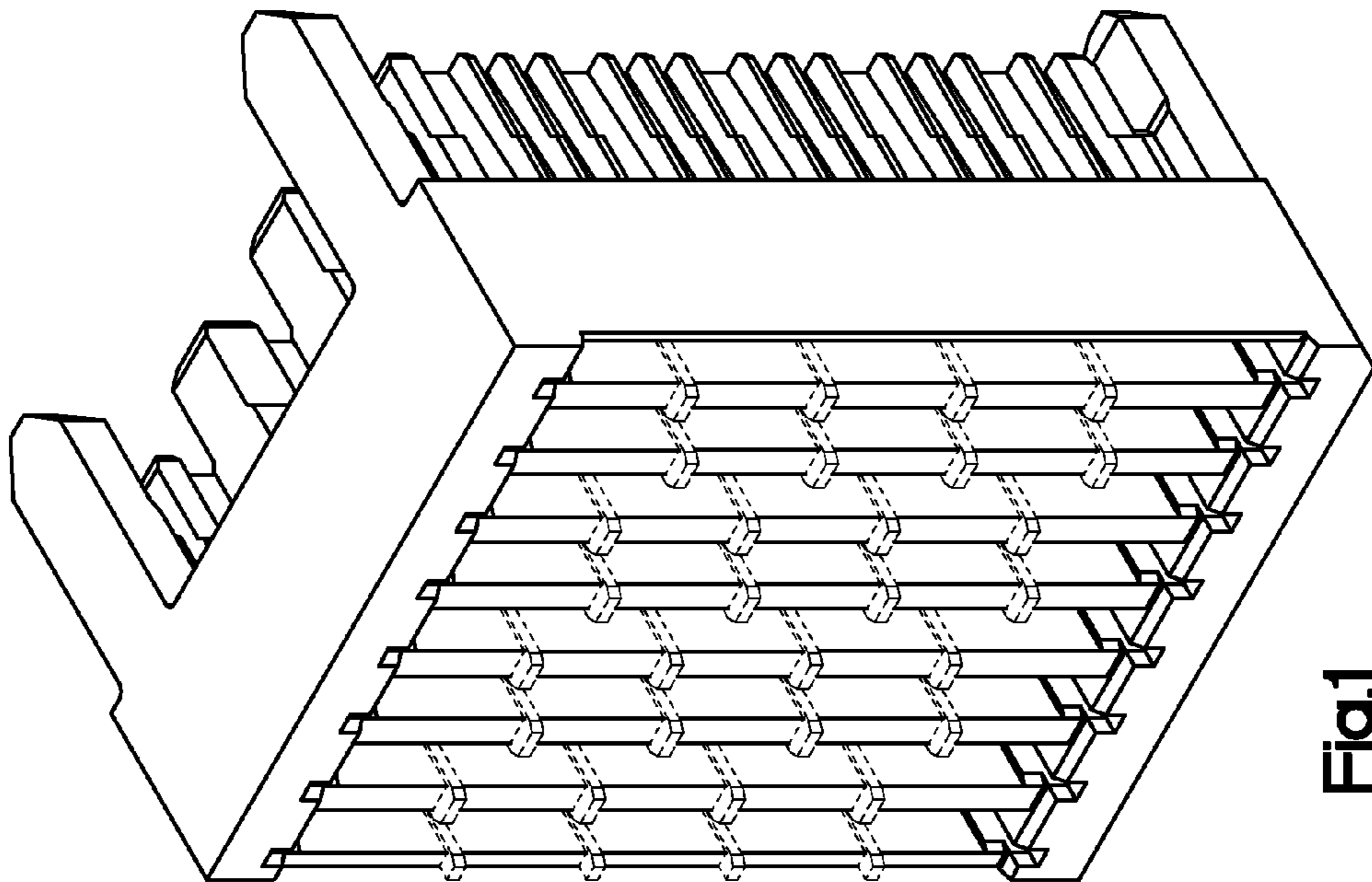


Fig.1

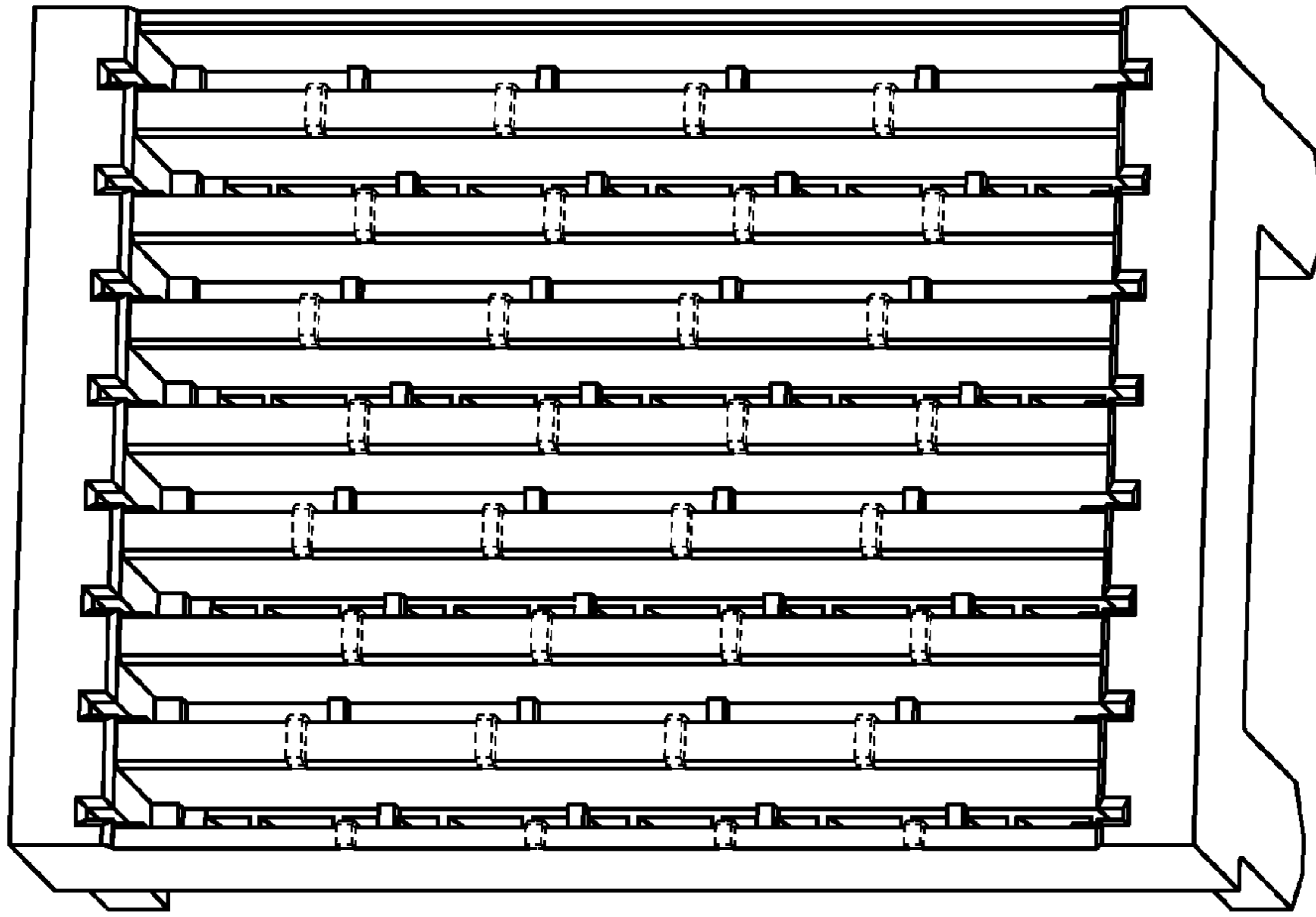


Fig.4

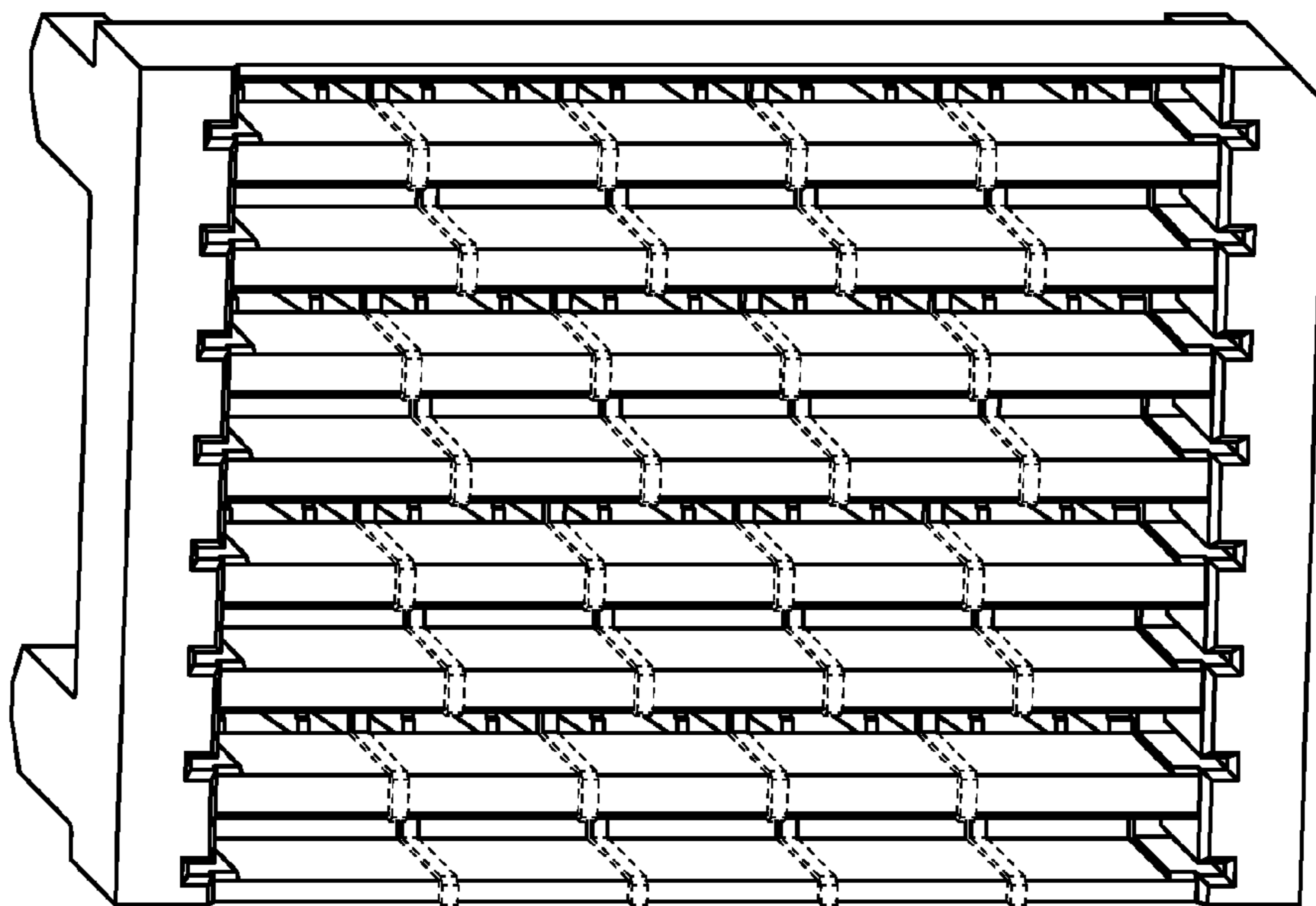


Fig.3

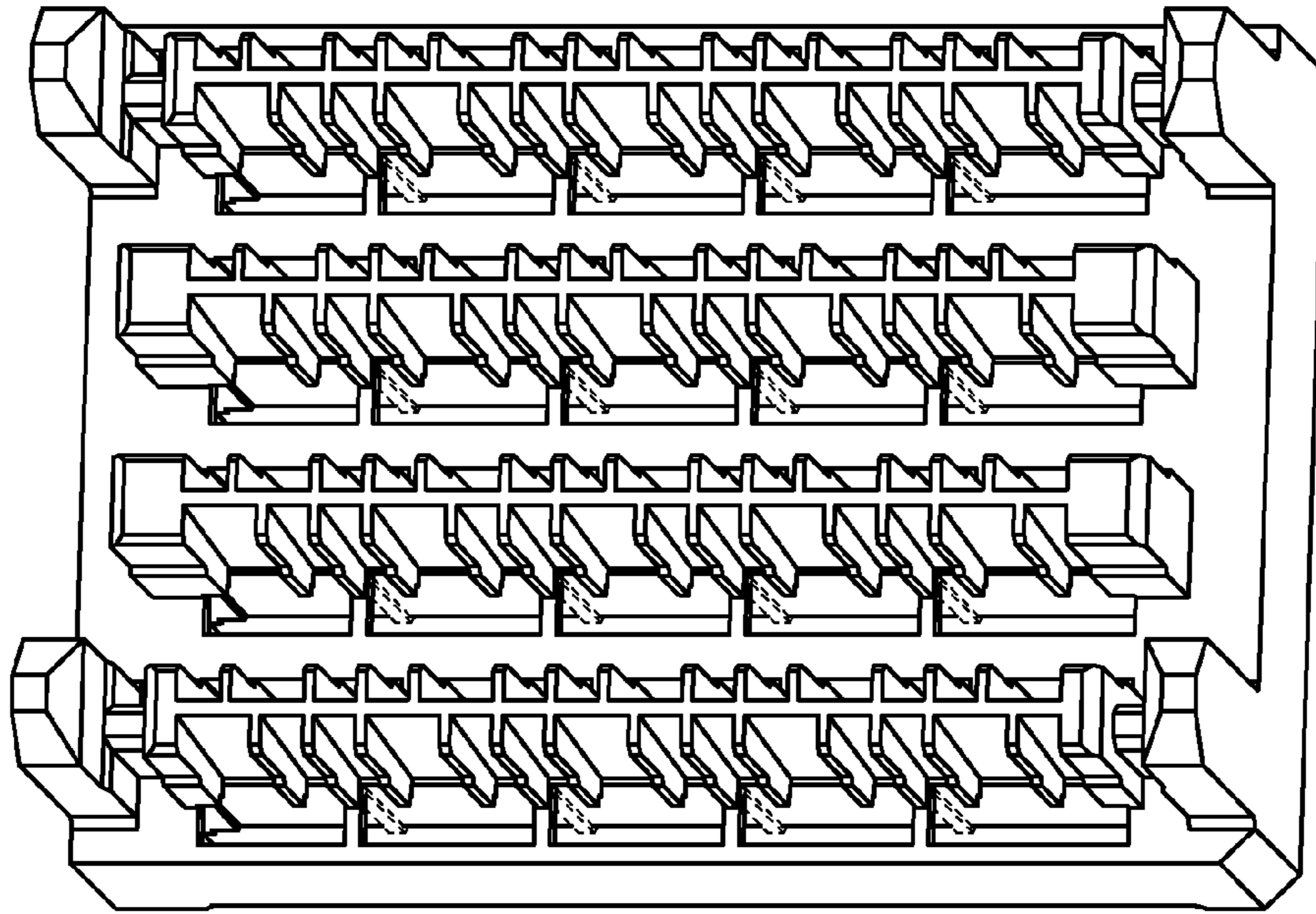


Fig.6

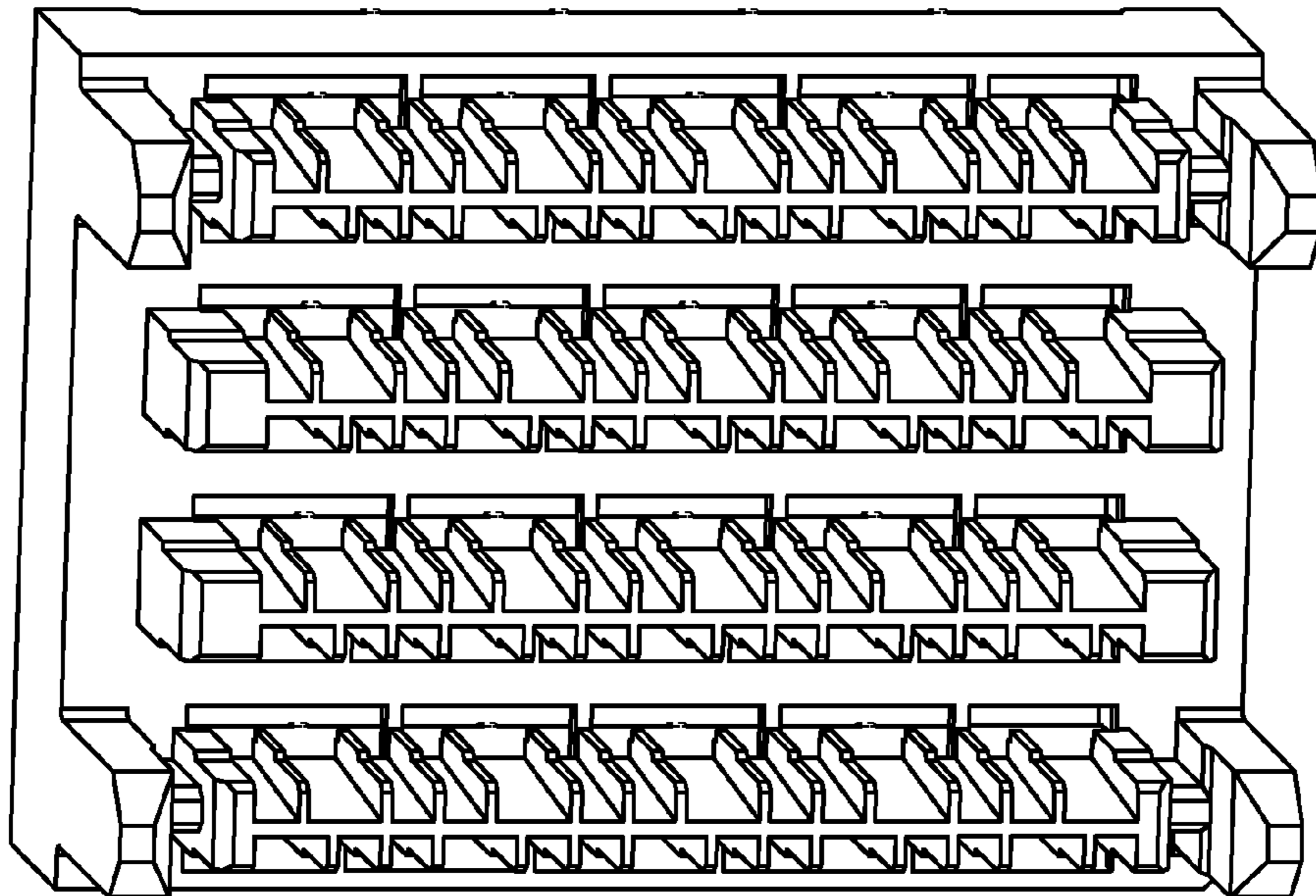


Fig.5

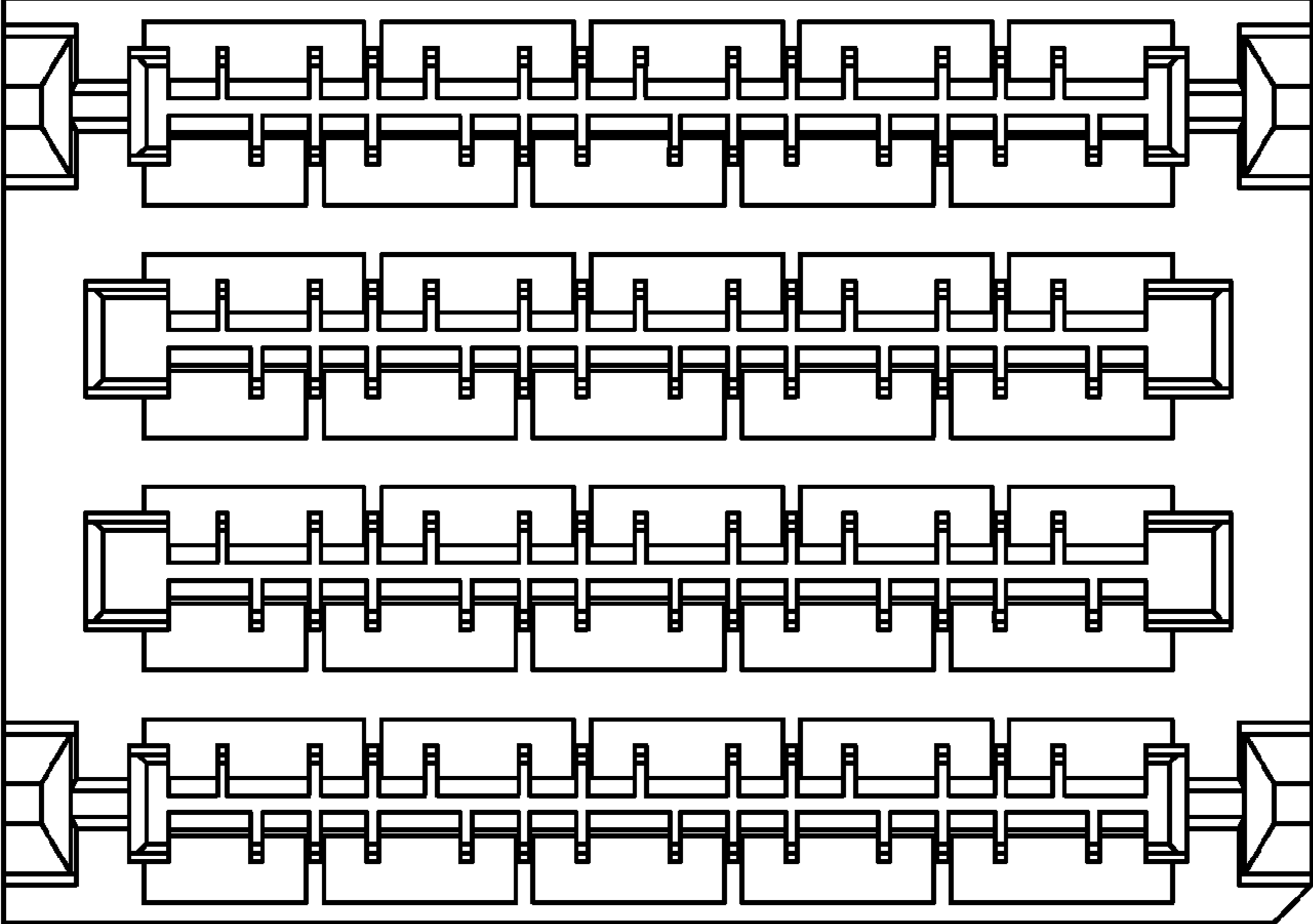


Fig.8

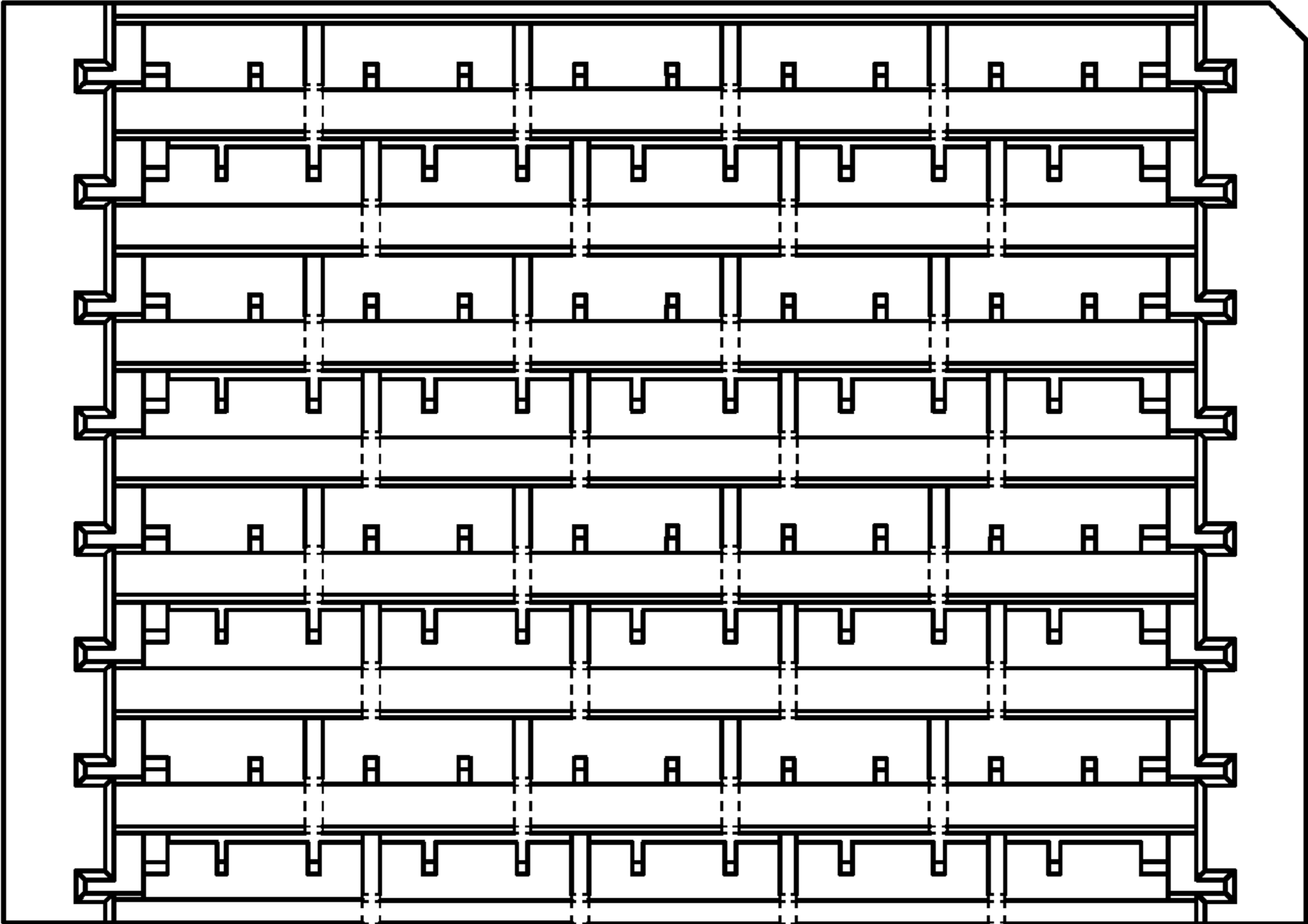


Fig.7

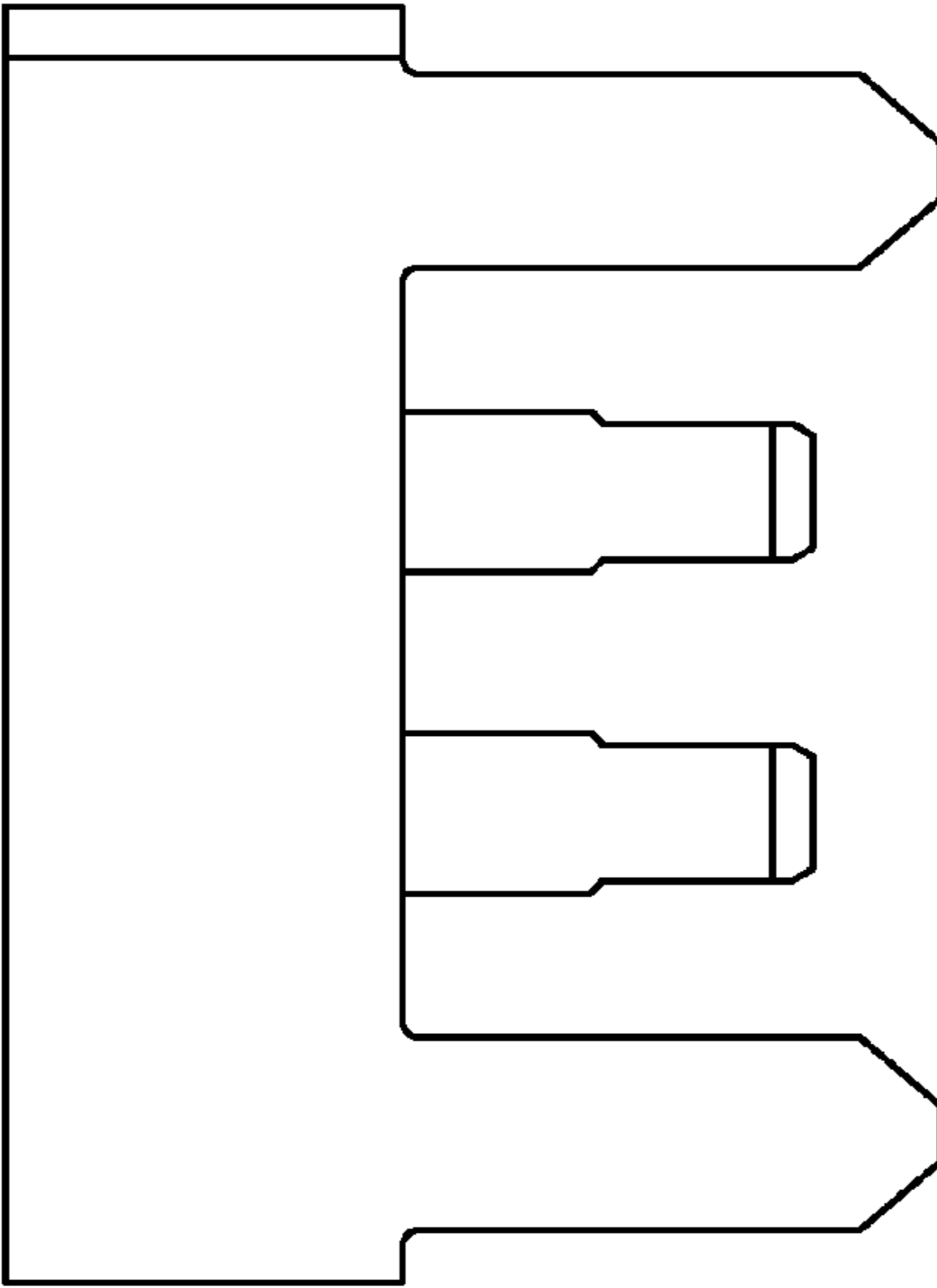


Fig.9

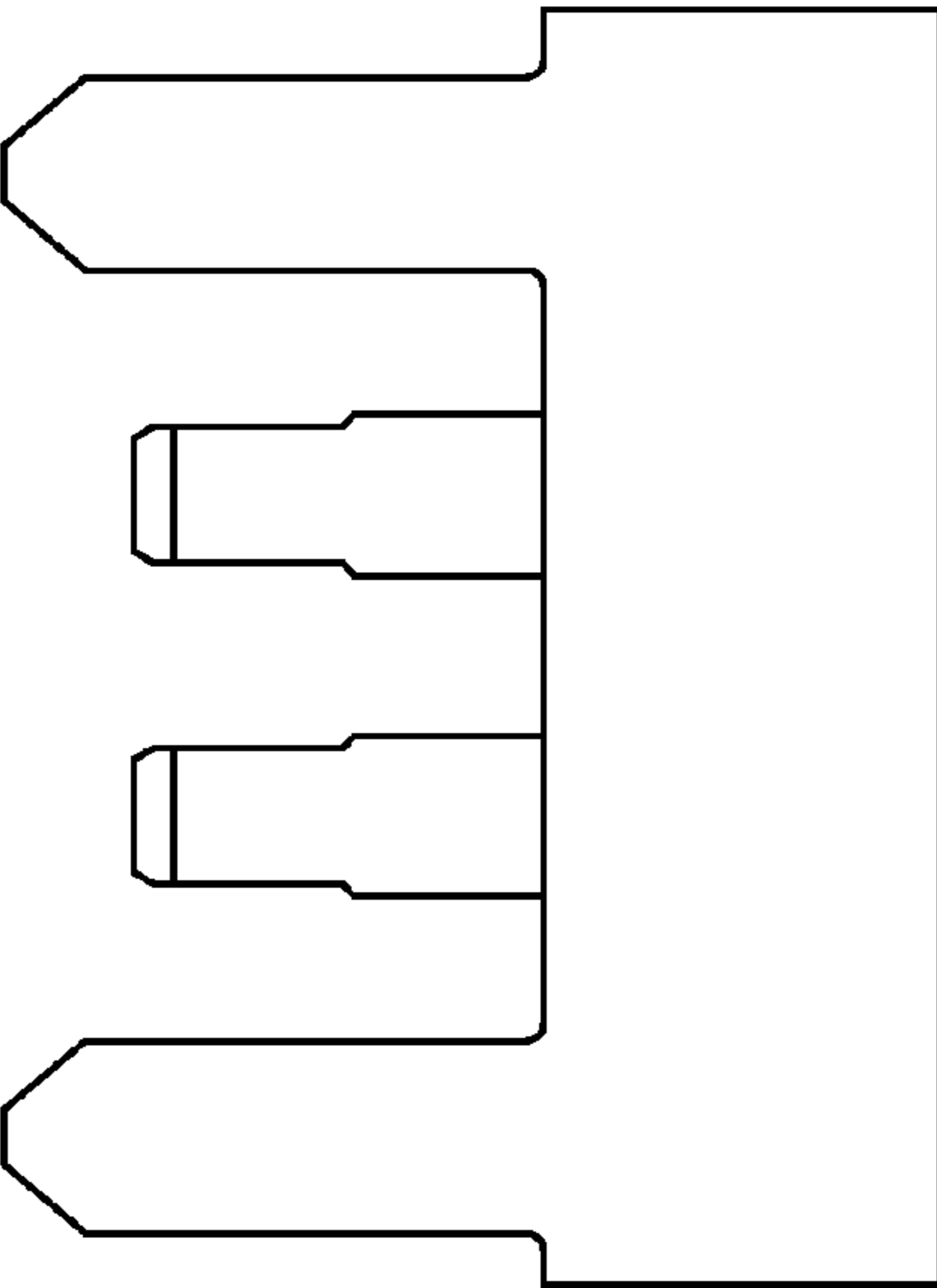


Fig.10

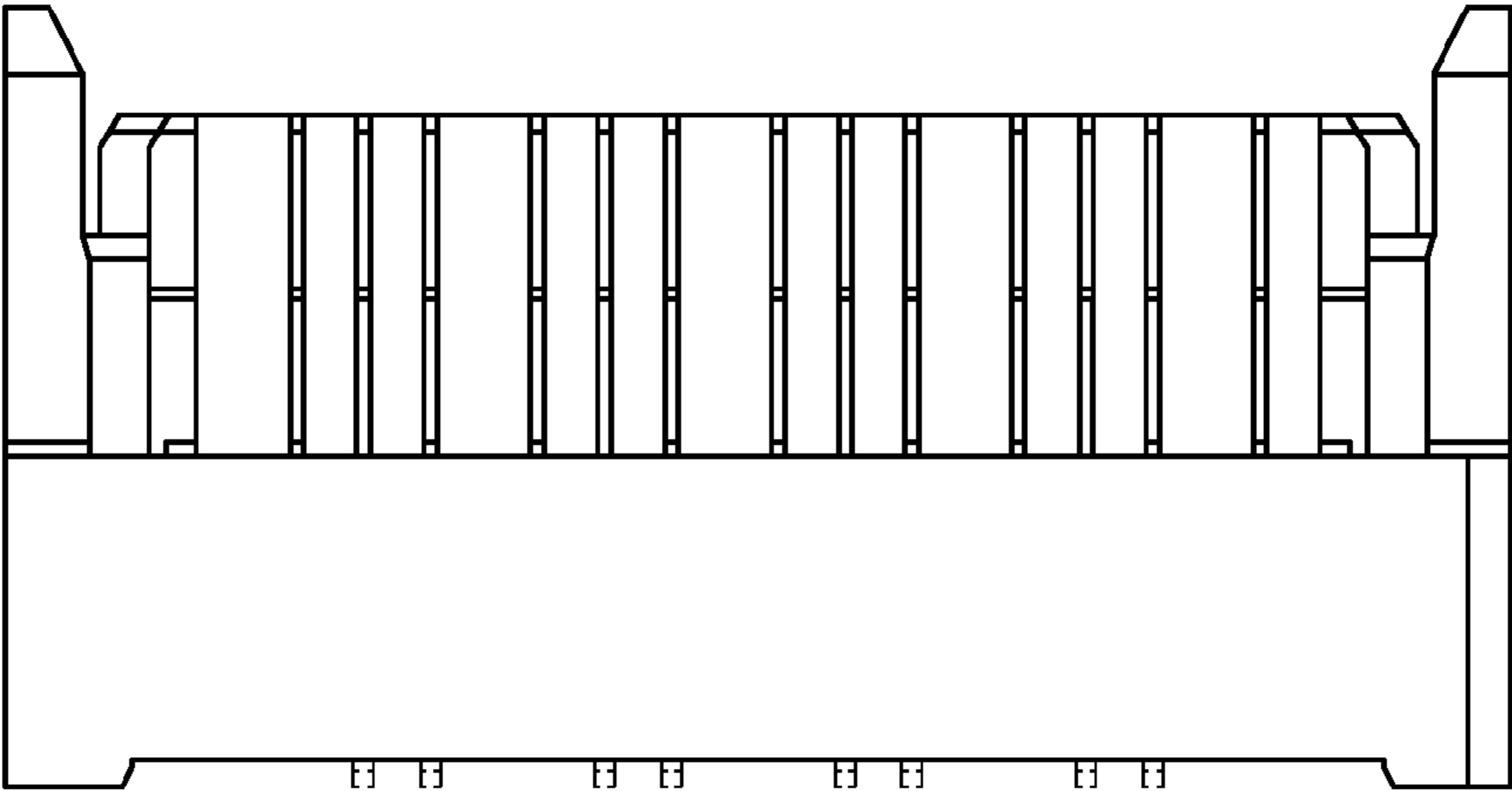


Fig.12

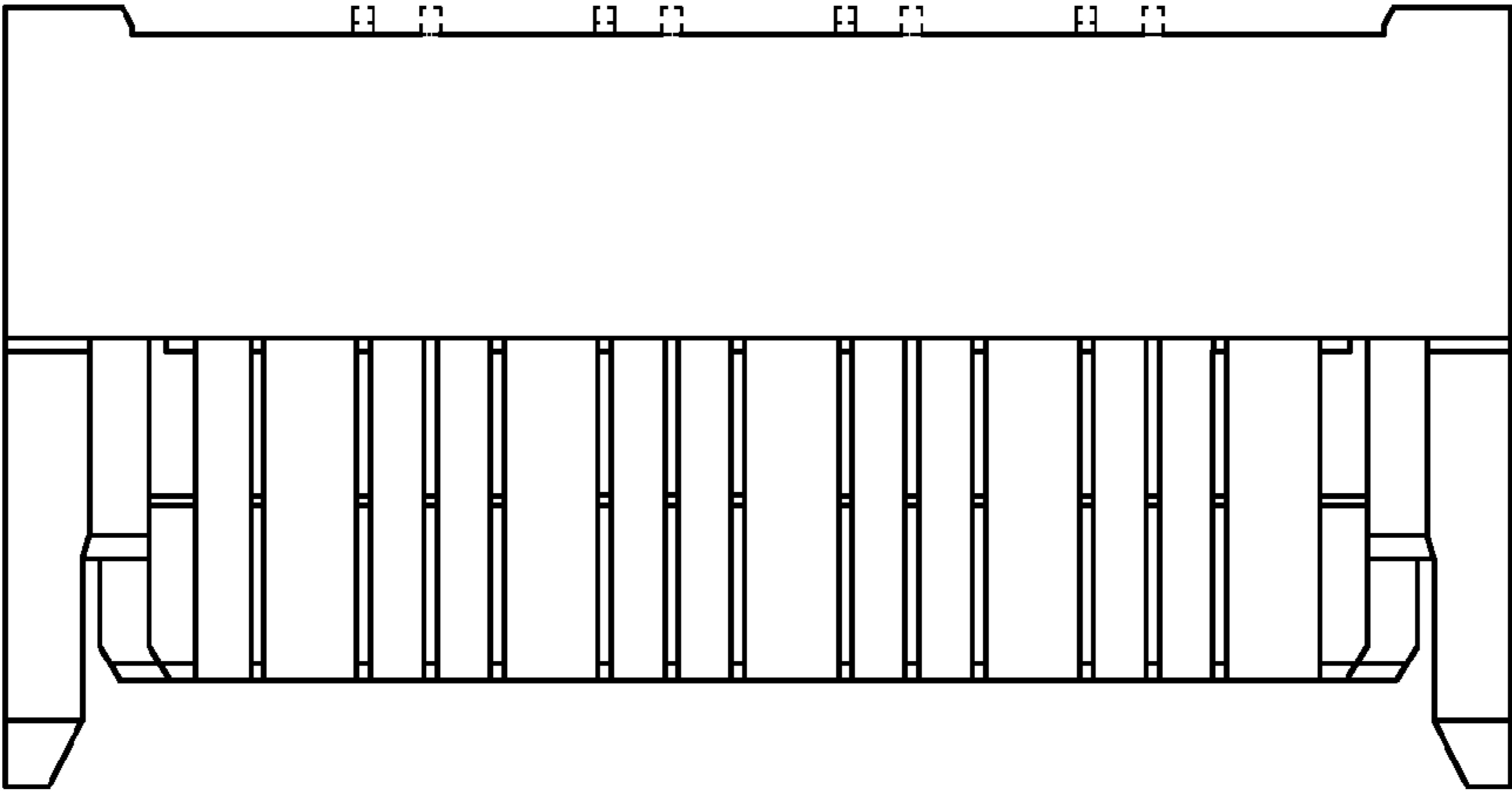


Fig.11