

US00D699693S

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

(10) **Patent No.:** **US D699,693 S**

(45) **Date of Patent:** **\*\* Feb. 18, 2014**

(54) **SEMICONDUCTOR DEVICE**  
(71) Applicant: **Fuji Electric Co., Ltd.**, Kawasaki (JP)  
(72) Inventors: **Hiroshi Otsuka**, Utsunomiya (JP);  
**Tomohiro Fukazu**, Utsunomiya (JP);  
**Kosuke Nishiyama**, Shioya-gun (JP);  
**Shin Soyano**, Nagano (JP); **Masahiro**  
**Kikuchi**, Nagano (JP); **Akira Nishiura**,  
Nagano (JP); **Takeshi Ichimura**, Nagano  
(JP)  
(73) Assignee: **Fuji Electric Co., Ltd.**, Kawasaki-shi  
(JP)

D448,739 S \* 10/2001 Iwasaki et al. .... D13/182  
6,300,685 B1 \* 10/2001 Hasegawa et al. .... 257/780  
6,330,165 B1 \* 12/2001 Kohjiro et al. .... 361/760  
D457,146 S \* 5/2002 Yamamoto et al. .... D13/182  
D459,316 S \* 6/2002 Fukumoto et al. .... D13/182  
D465,773 S \* 11/2002 Fukumoto et al. .... D13/182  
D470,825 S \* 2/2003 Iwasaki et al. .... D13/182  
D472,530 S \* 4/2003 Iwasaki et al. .... D13/182  
D475,355 S \* 6/2003 Hori et al. .... D13/182  
D476,959 S \* 7/2003 Yamada et al. .... D13/182  
D476,962 S \* 7/2003 Yoshihira et al. .... D13/182  
D480,371 S \* 10/2003 Sako et al. .... D13/182  
6,713,868 B2 \* 3/2004 Ueno ..... 257/730  
D502,151 S \* 2/2005 Standing ..... D13/182  
D504,405 S \* 4/2005 Kawaguchi et al. .... D13/182  
D505,399 S \* 5/2005 Yoshida et al. .... D13/182  
D507,248 S \* 7/2005 Hisaishi et al. .... D13/182

(\*\*) Term: **14 Years**  
(21) Appl. No.: **29/440,818**  
(22) Filed: **Dec. 27, 2012**

(Continued)

*Primary Examiner* — Elizabeth J Oswecki  
(74) *Attorney, Agent, or Firm* — Oliff PLC

(30) **Foreign Application Priority Data**  
Oct. 3, 2012 (JP) ..... 2012-024110  
(51) **LOC (10) CL.** ..... **13-03**  
(52) **U.S. CL.**  
USPC ..... **D13/182**  
(58) **Field of Classification Search**  
USPC ..... D13/110, 182; 257/678, 690; 361/713,  
361/679.01, 728, 736, 775, 760, 761, 820;  
324/754, 755, 756; 174/250, 253;  
438/64, 65  
See application file for complete search history.

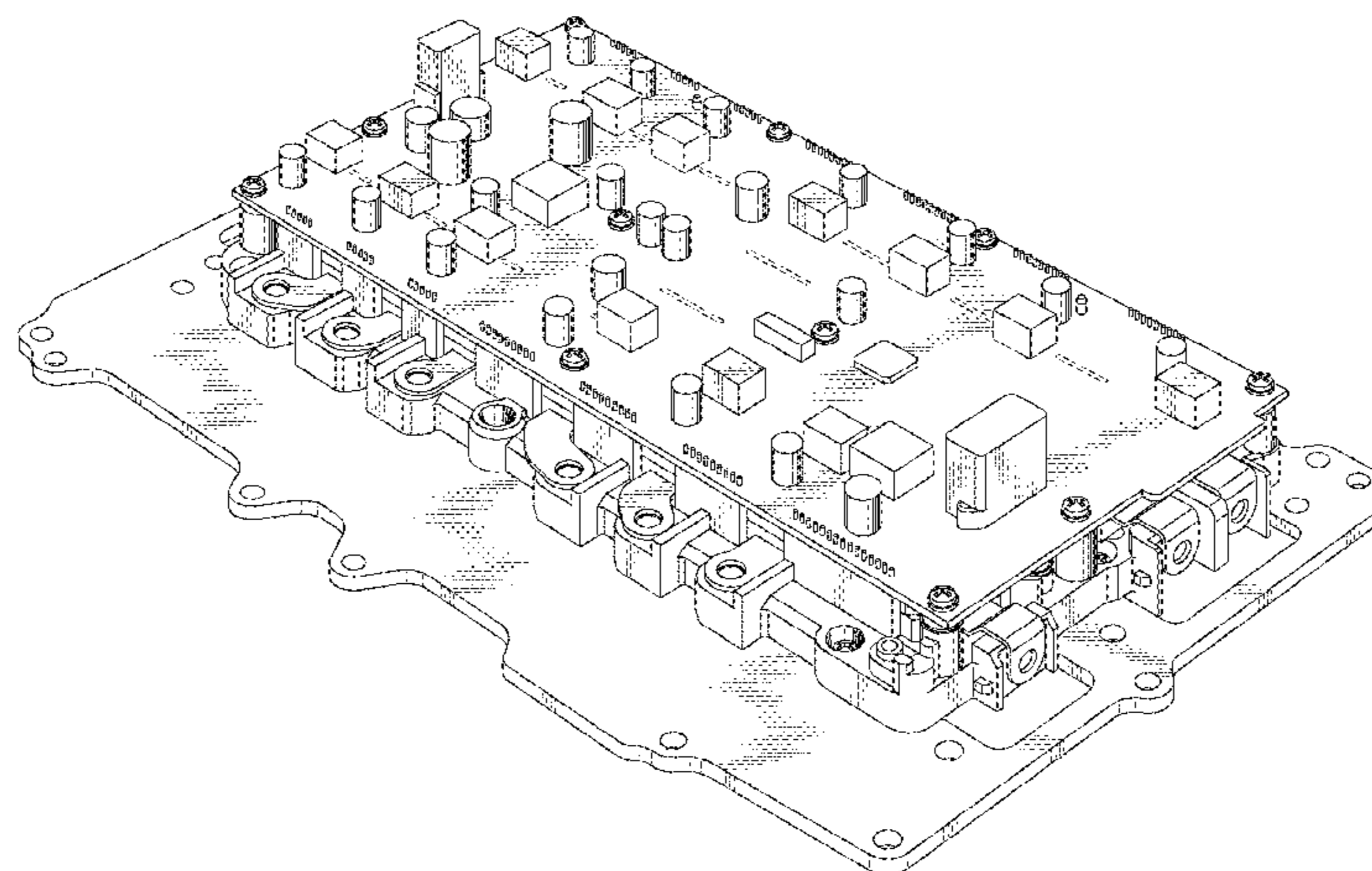
(57) **CLAIM**  
The ornamental design for a semiconductor device, as shown  
and described.

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
5,347,160 A \* 9/1994 Sutrina ..... 257/698  
D357,672 S \* 4/1995 Terasawa et al. .... D13/182  
D396,847 S \* 8/1998 Nakayama et al. .... D13/182  
D441,726 S \* 5/2001 Sofue et al. .... D13/182  
D441,727 S \* 5/2001 Sekimoto ..... D13/182

**DESCRIPTION**

FIG. 1 is a front view of a semiconductor device showing our  
new design;  
FIG. 2 is a rear view thereof;  
FIG. 3 is a right side view thereof;  
FIG. 4 is a left side view thereof;  
FIG. 5 is a top plan view thereof;  
FIG. 6 is a bottom plan view thereof;  
FIG. 7 is a partially enlarged view thereof taken along lines  
VII-VII in FIG. 2;  
FIG. 8 is a partially enlarged view thereof taken along lines  
VIII-VIII in FIG. 4;  
FIG. 9 is a partially enlarged view thereof taken along lines  
IX-IX in FIG. 5;  
FIG. 10 is a front perspective view thereof; and,  
FIG. 11 is a rear perspective view thereof.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D507,545 S \* 7/2005 Nakamura et al. .... D13/182  
D508,682 S \* 8/2005 Yamada et al. .... D13/182  
D521,952 S \* 5/2006 Yamada et al. .... D13/182  
D525,215 S \* 7/2006 Hisaishi et al. .... D13/182

D539,761 S \* 4/2007 Takahashi et al. .... D13/182  
D548,203 S \* 8/2007 Takahashi ..... D13/182  
D587,662 S \* 3/2009 Soutome et al. .... D13/182  
D589,012 S \* 3/2009 Soyano et al. .... D13/182  
D653,633 S \* 2/2012 Soyano ..... D13/182  
D653,634 S \* 2/2012 Soyano ..... D13/182  
2004/0016993 A1\* 1/2004 Ham et al. .... 257/666

\* cited by examiner

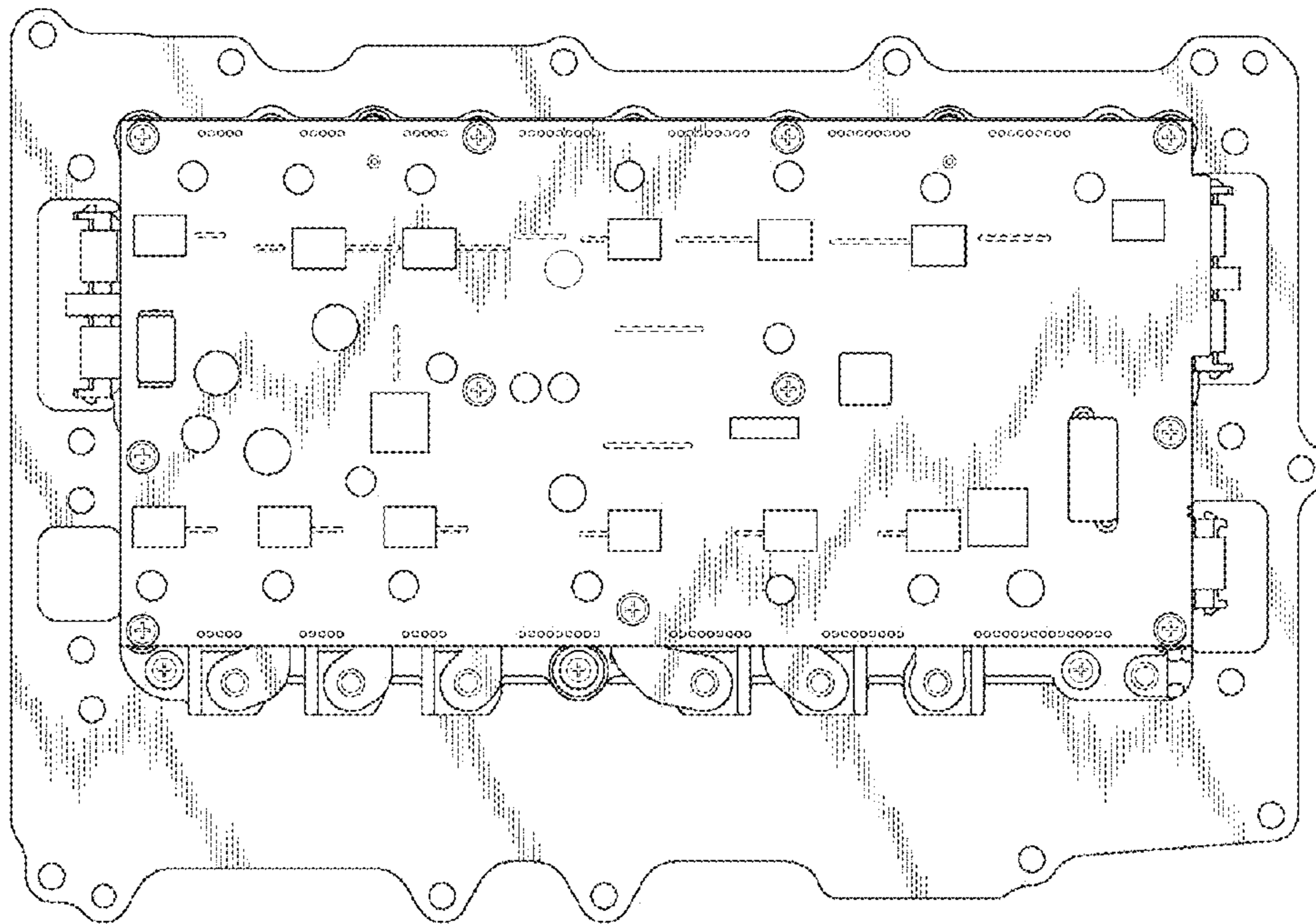


FIG. 1

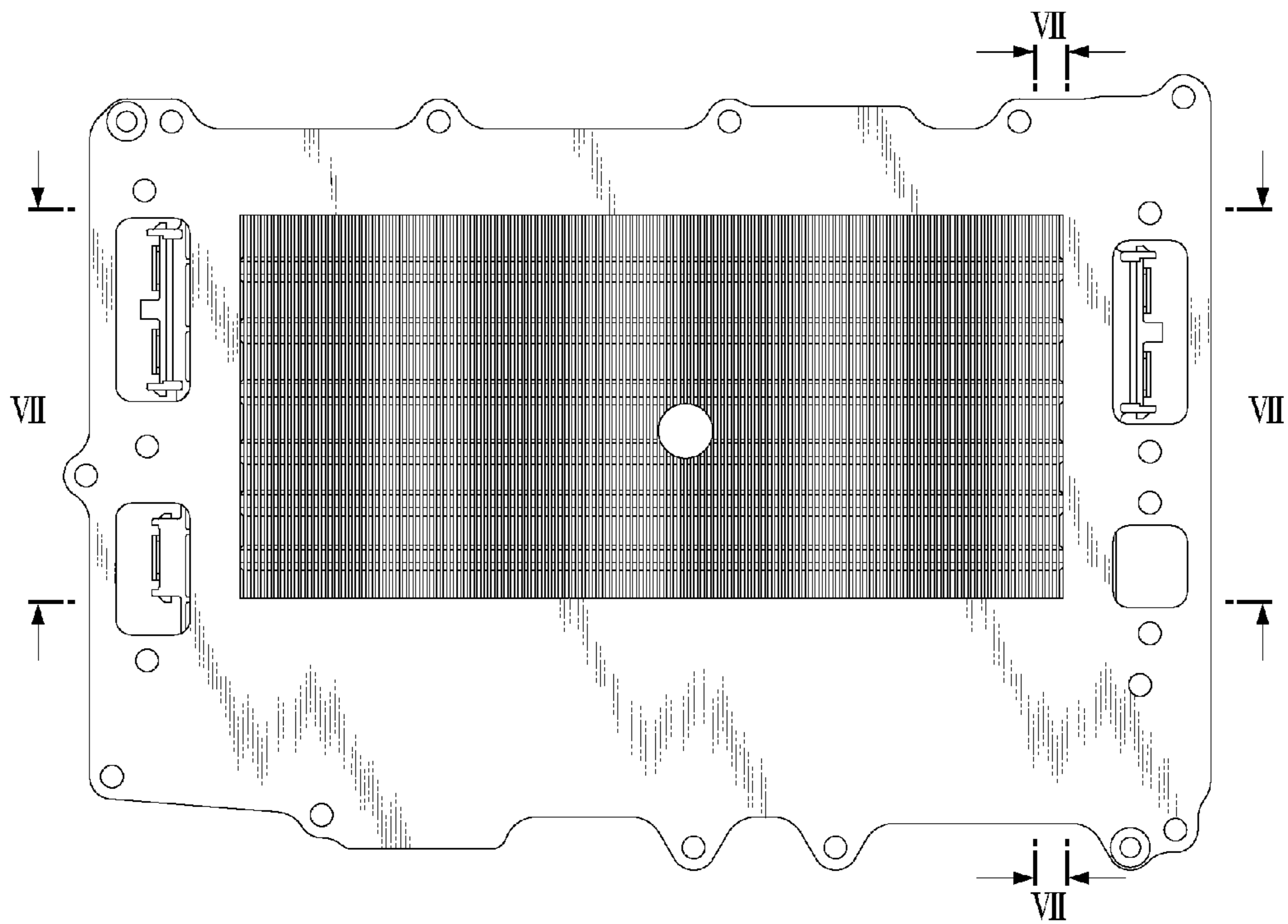
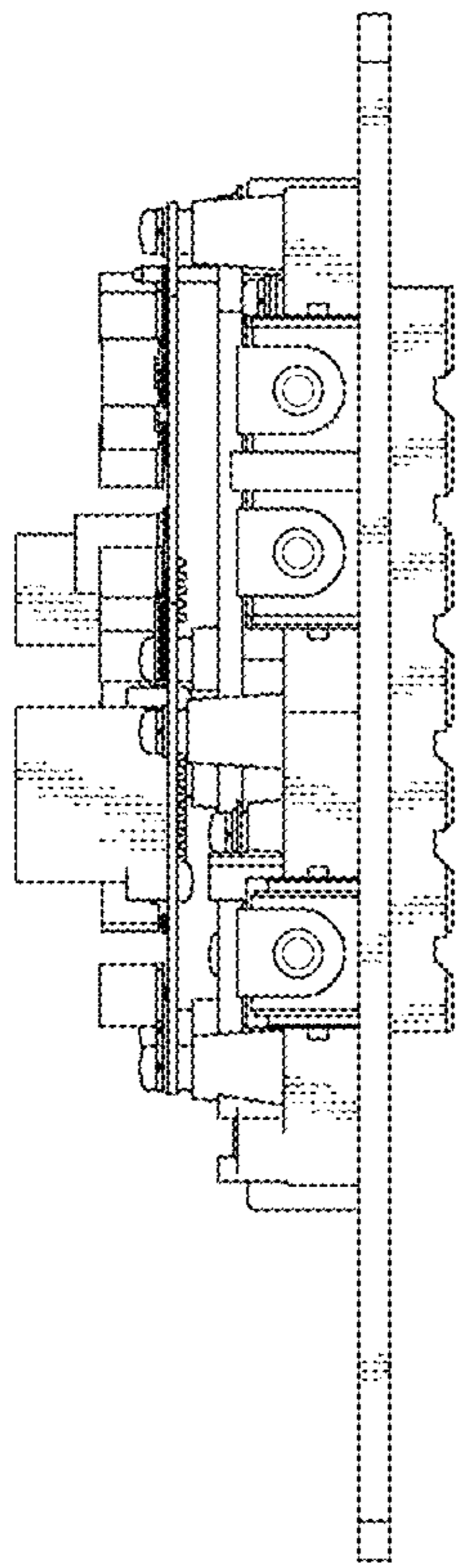
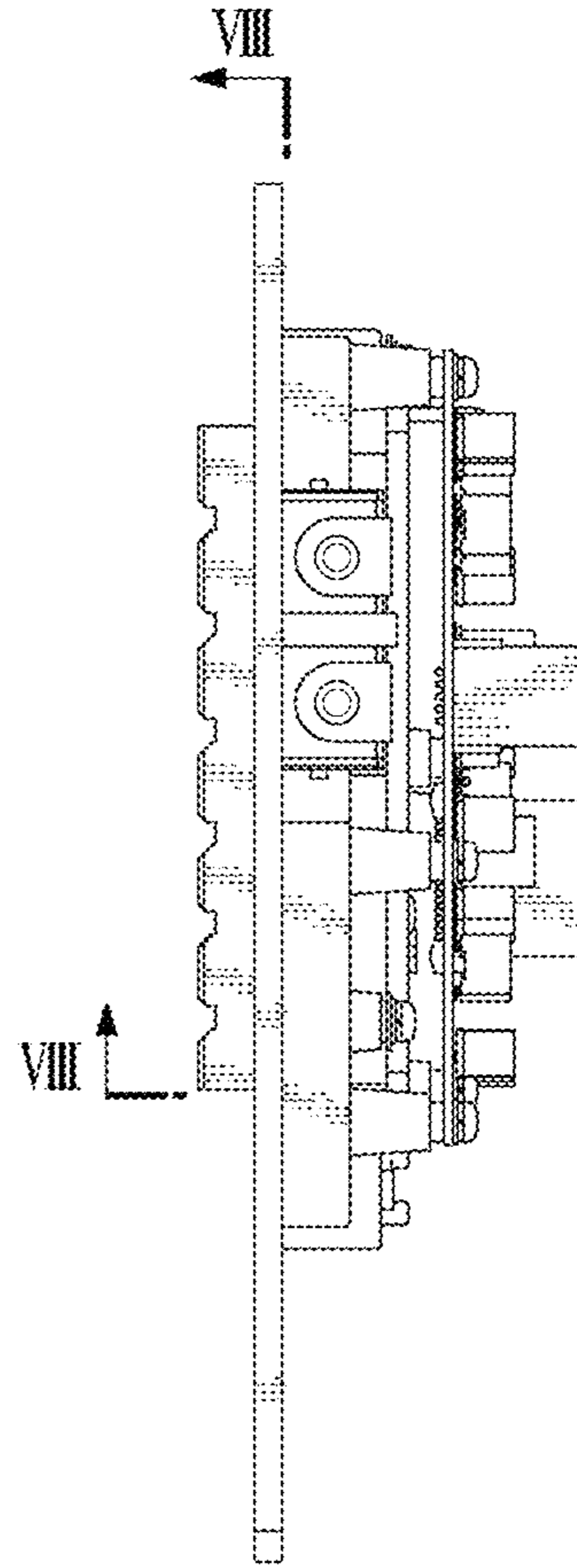


FIG.2



**FIG. 3**



**FIG. 4**

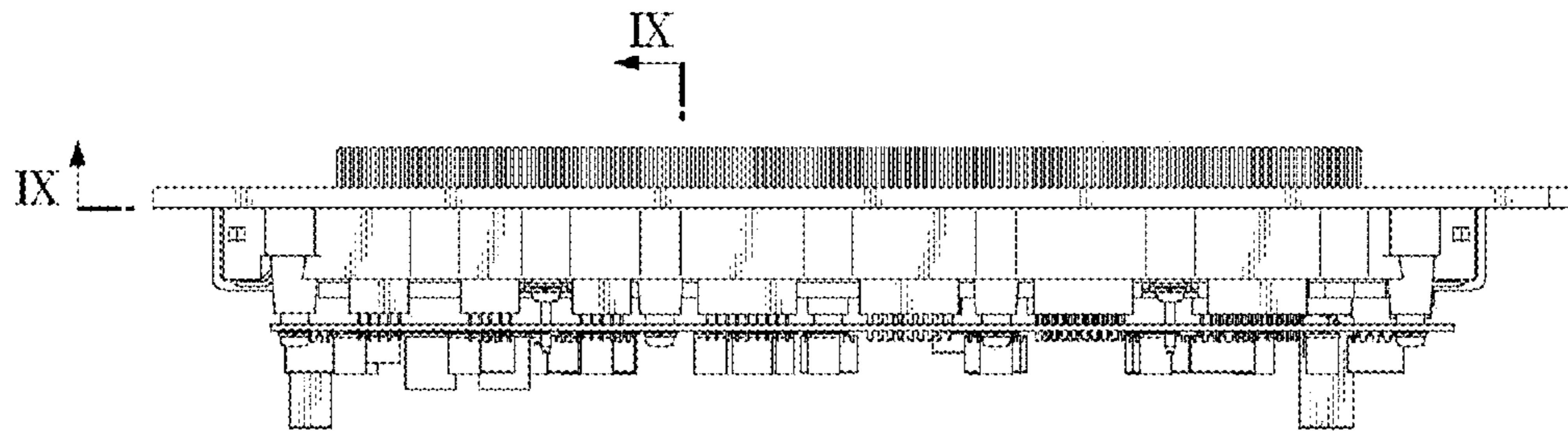


FIG. 5

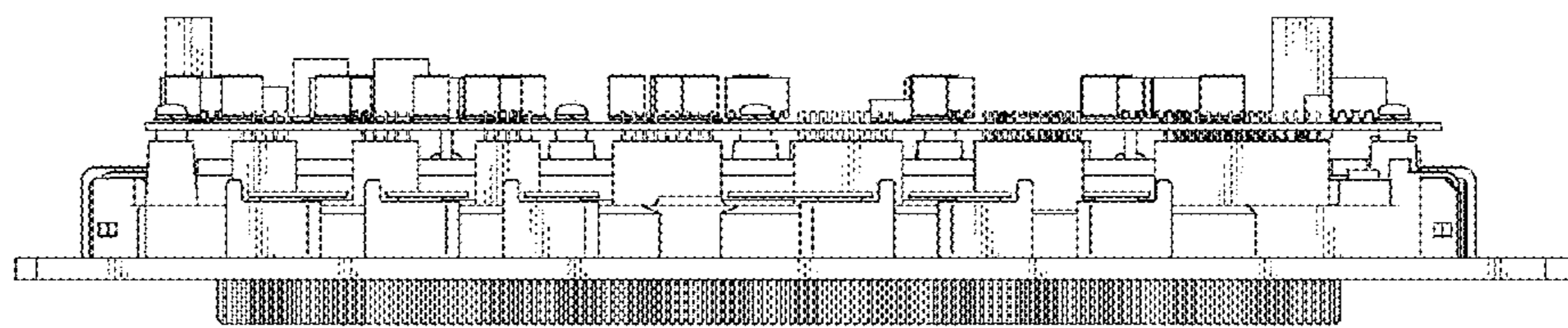
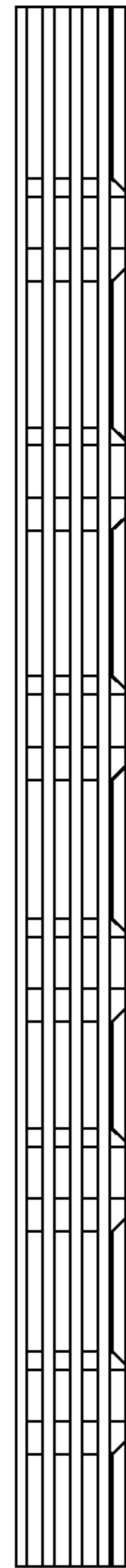
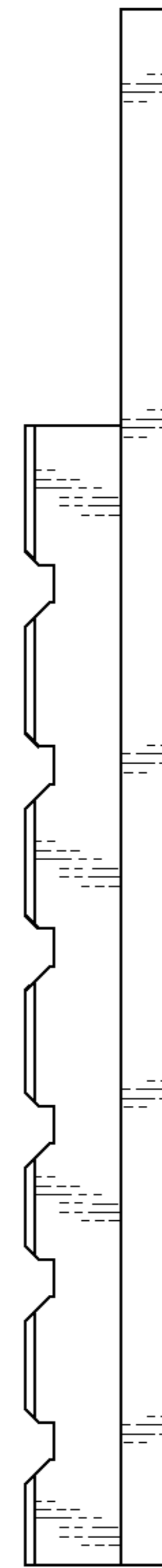


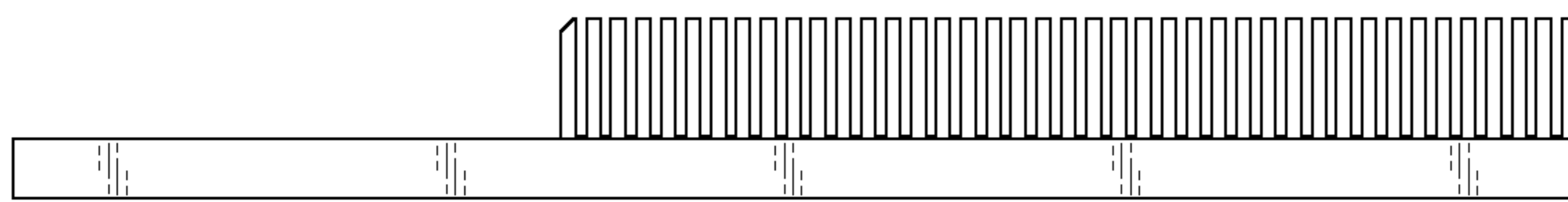
FIG. 6



**FIG. 7**



**FIG. 8**



**FIG.9**



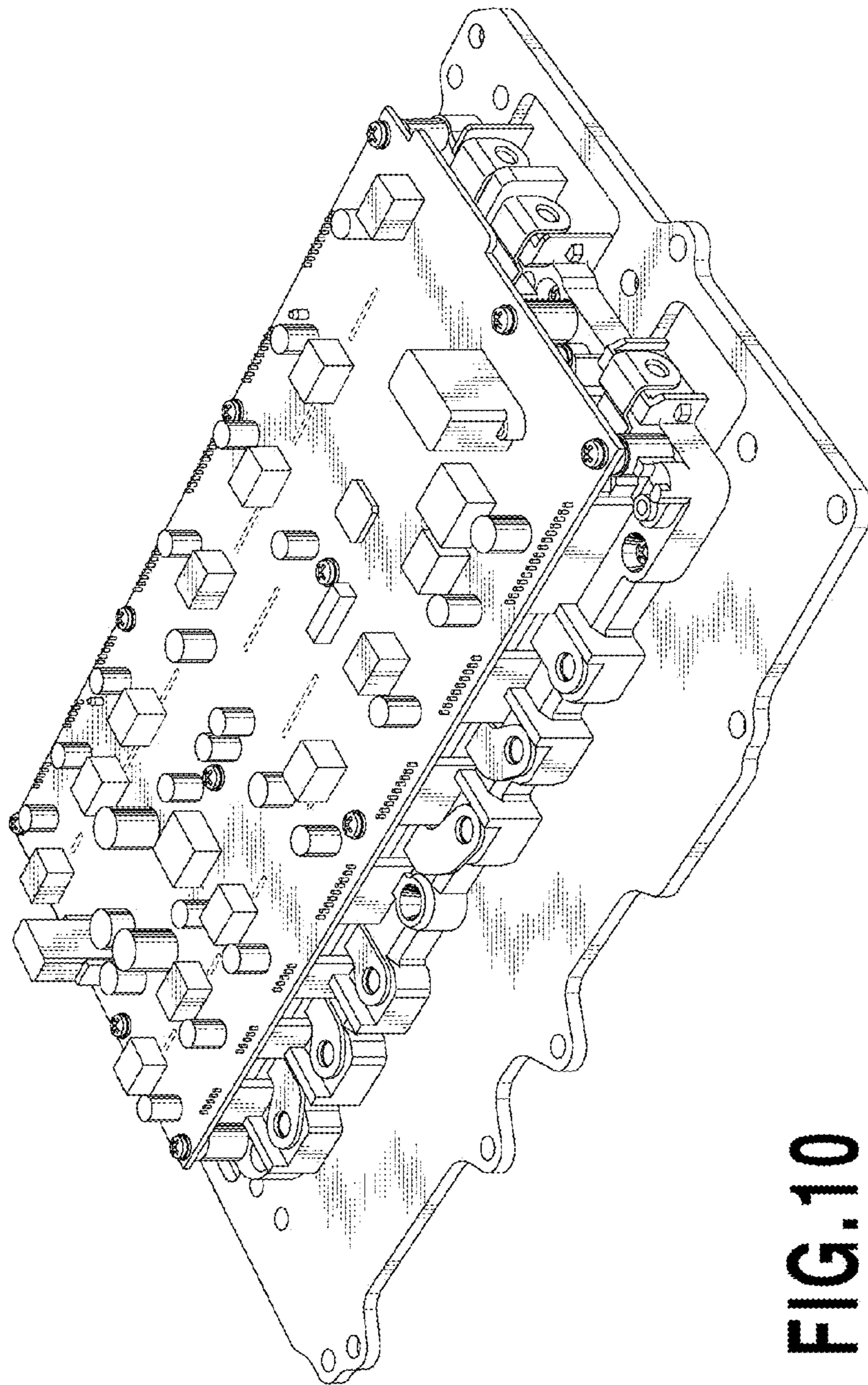


FIG.10

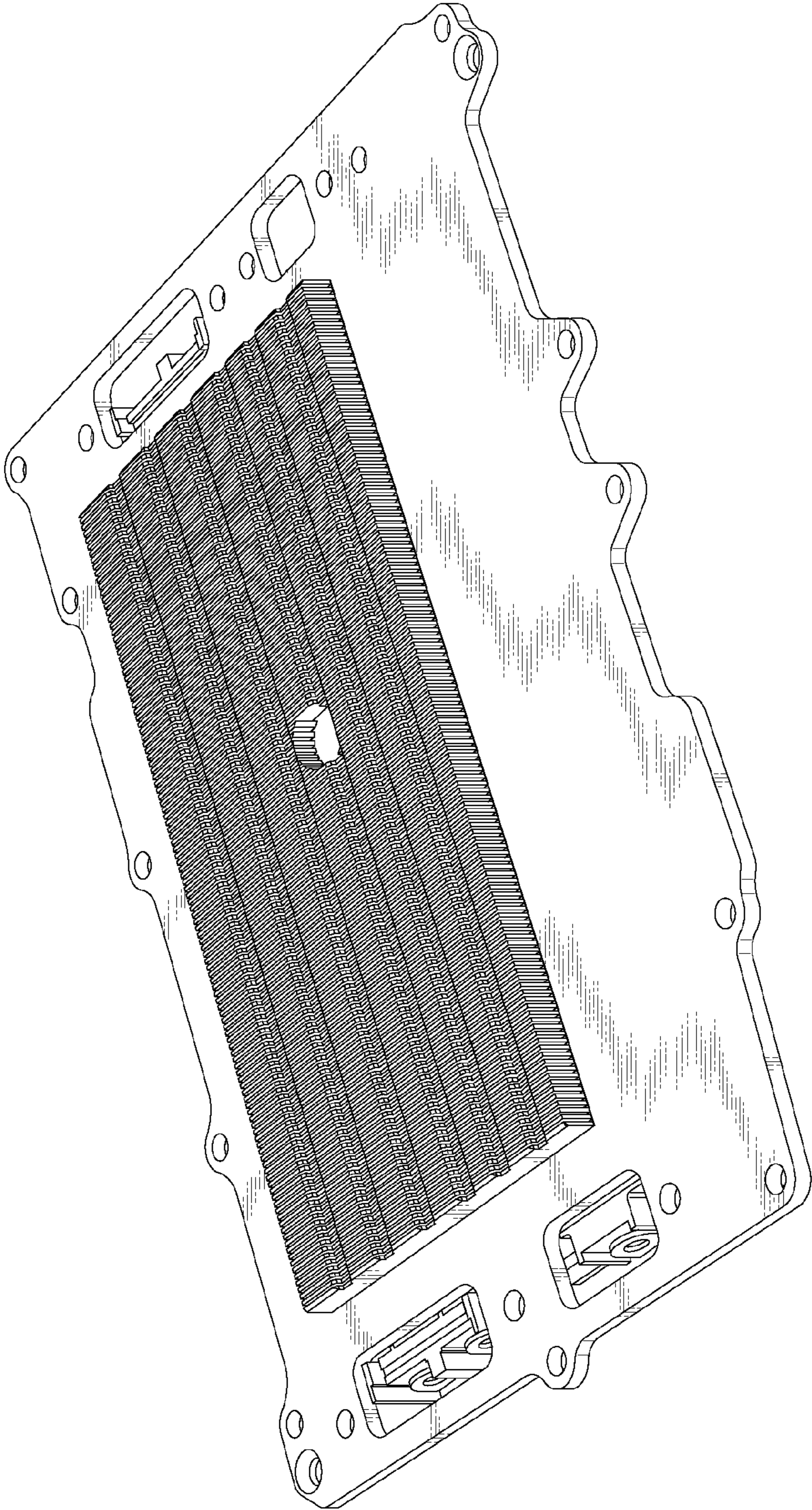


FIG. 11