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

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- (54) **LIGHT-EMITTING DEVICE**
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- 8,188,493 B2 * 5/2012 Li H01L 33/38
257/91
- D681,566 S 5/2013 Chen et al.
- D687,396 S * 8/2013 Chen D13/180
- D691,569 S * 10/2013 Edmond D13/180
- 8,680,559 B2 * 3/2014 Kim H01L 33/38
257/98
- D719,112 S * 12/2014 Yeh D13/180
- D725,051 S * 3/2015 Kao D13/180
- 9,082,935 B2 * 7/2015 Wang H01L 33/38
- D741,822 S * 10/2015 Yeh D13/180
- 9,293,662 B2 * 3/2016 Imai F21K 9/232

(Continued)

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(30) **Foreign Application Priority Data**

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

(52) **U.S. Cl.**
USPC **D13/180**

(58) **Field of Classification Search**
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CPC ... H01L 25/167; H01L 25/0753; H01L 27/15;
H01L 27/156; H01L 31/02; H01L 33/00;
H01L 33/04; H01L 33/08; H01L 33/10;
H01L 33/20; H01L 33/38; H01L 33/42;
H01L 33/48; H01L 33/483; H01L 33/486;
F21K 9/00

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D522,974 S 6/2006 Egawa
- D582,866 S * 12/2008 Edmond D13/180
- D624,031 S * 9/2010 Takeuchi D13/180
- D624,032 S * 9/2010 Takeuchi D13/180

FOREIGN PATENT DOCUMENTS

- JP D1594164 S 1/2018
- TW D164358 S 11/2014
- TW D185070 S 8/2017

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(57) **CLAIM**

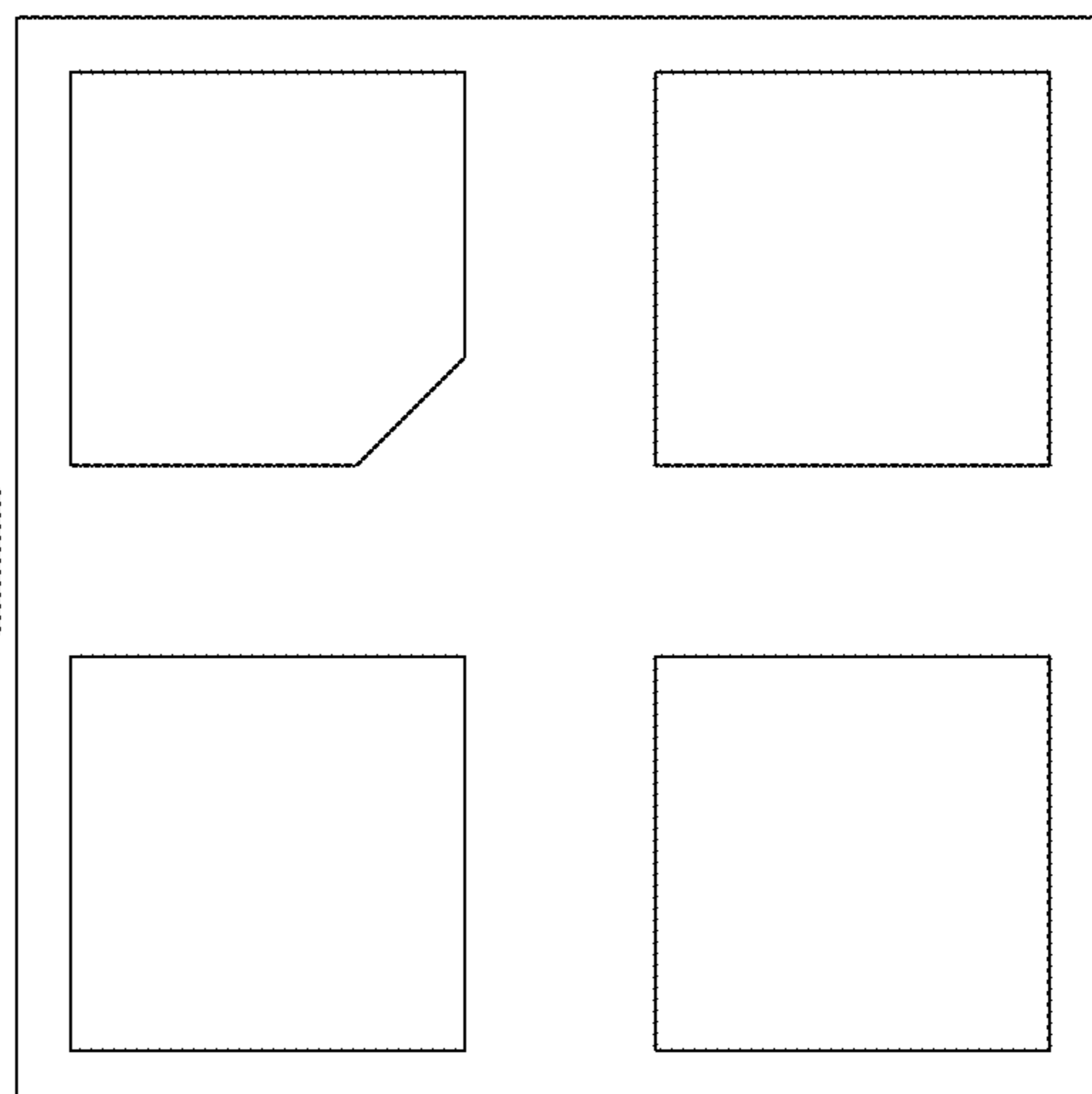
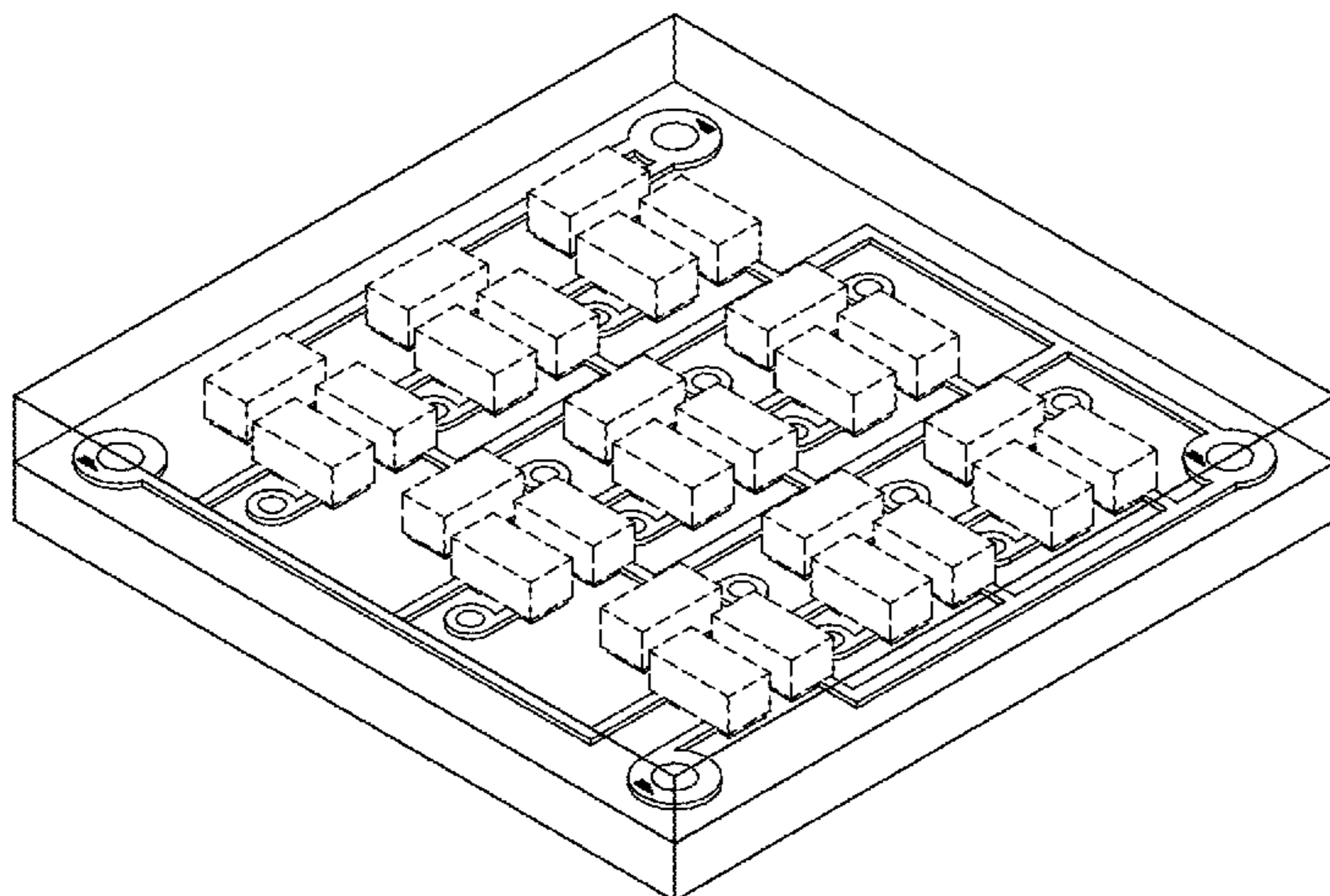
The ornamental design for a light-emitting device, as shown and described.

DESCRIPTION

FIG. 1 is a top, right perspective view of a first embodiment of a light-emitting device showing our new design;
 FIG. 2 is a top, left perspective view thereof;
 FIG. 3 is a front view thereof;
 FIG. 4 is a rear view thereof;
 FIG. 5 is a right side view thereof;
 FIG. 6 is a left side view thereof;
 FIG. 7 is a top plan view thereof; and,
 FIG. 8 is a bottom plan view thereof.

The broken lines illustrate environment that does not form a part of the present invention, and the broken lines form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

9,876,052 B2 * 1/2018 Yeh H01L 33/08
10,074,635 B2 * 9/2018 Tiwari H01L 33/52
2009/0261368 A1 * 10/2009 Wang F21K 9/68
257/98
2012/0248477 A1 * 10/2012 Tischler H05B 45/44
257/89
2013/0299853 A1 * 11/2013 Chen H01L 27/156
257/88
2015/0349218 A1 * 12/2015 Reiherzer H01L 33/56
257/88
2016/0190414 A1 * 6/2016 Miyamoto H01L 33/62
257/99
2019/0067255 A1 * 2/2019 Lim H01L 33/52
2019/0067256 A1 * 2/2019 Kurimoto H01L 33/46
2019/0371971 A1 * 12/2019 Kozuru H01L 33/62

* cited by examiner

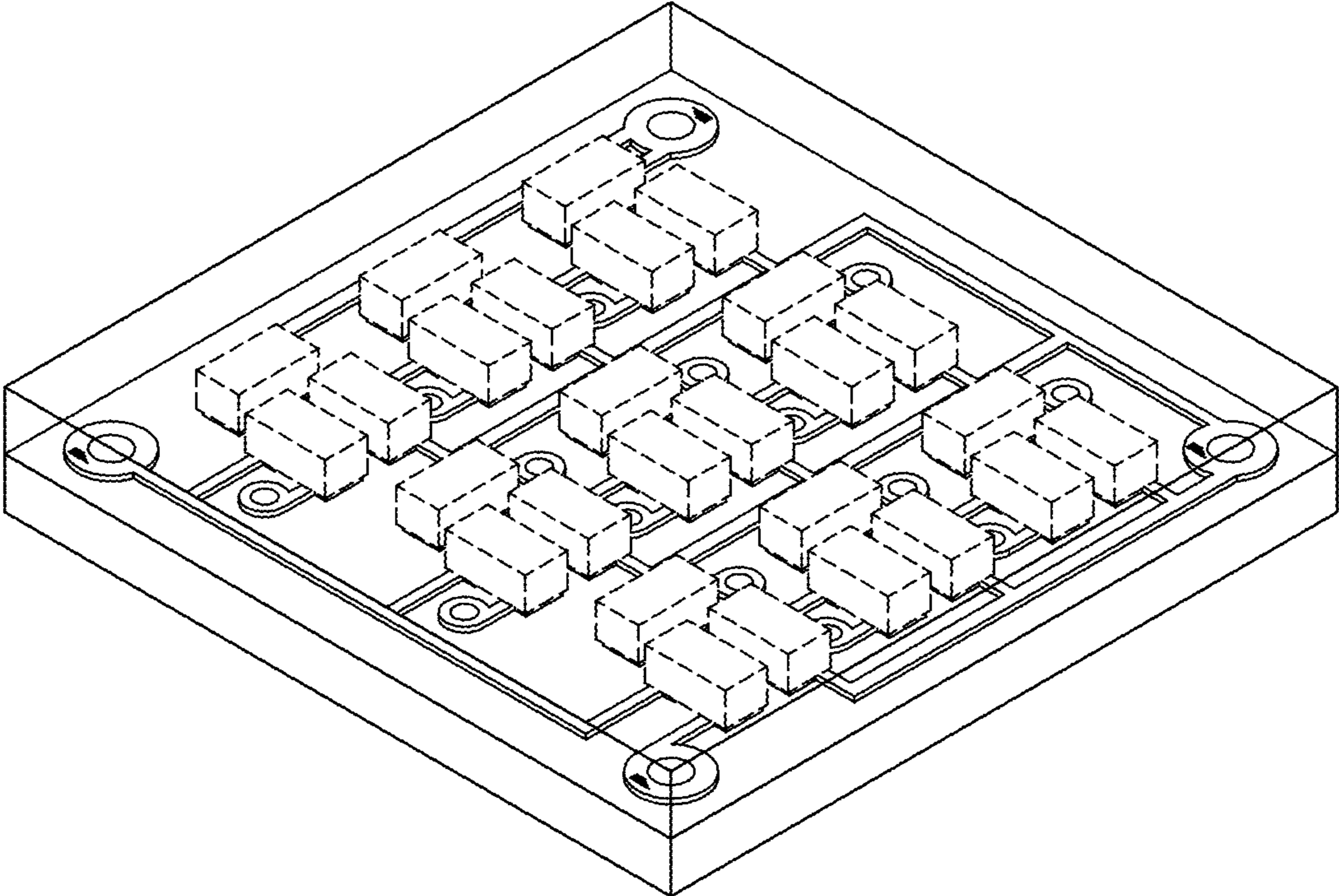


FIG. 1

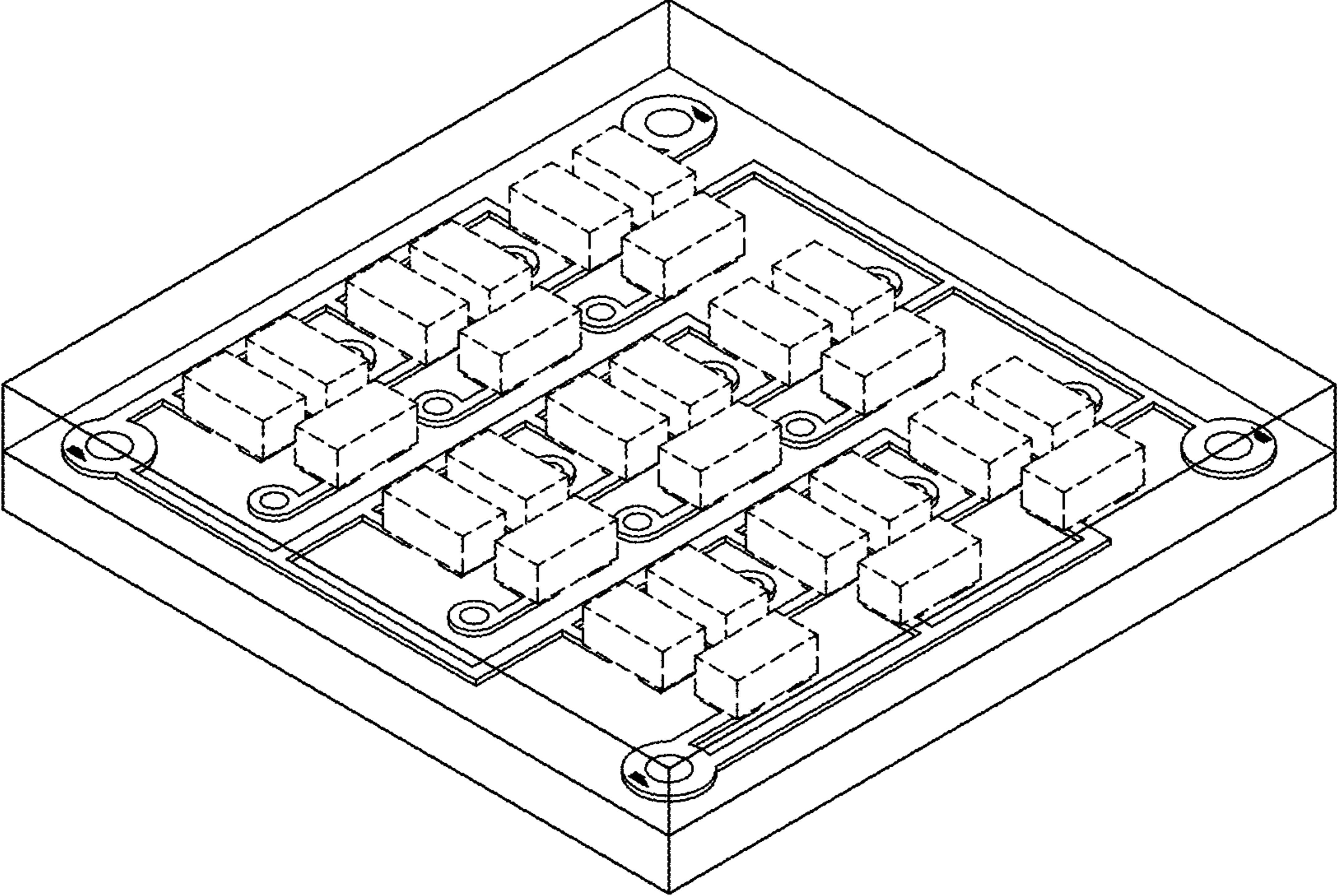


FIG. 2

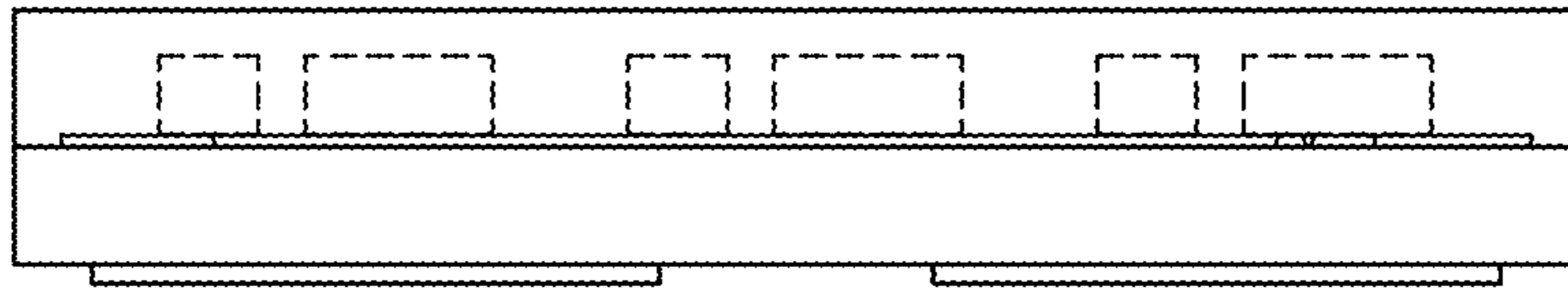


FIG. 3

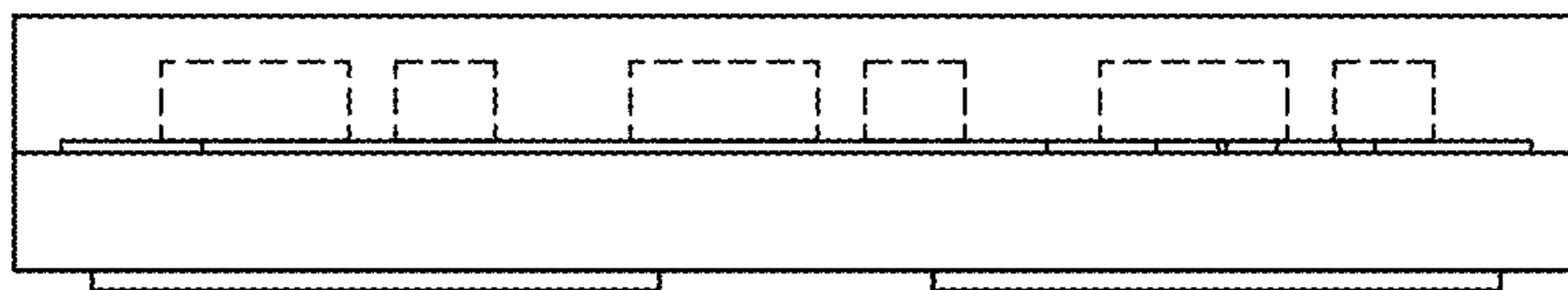


FIG. 4

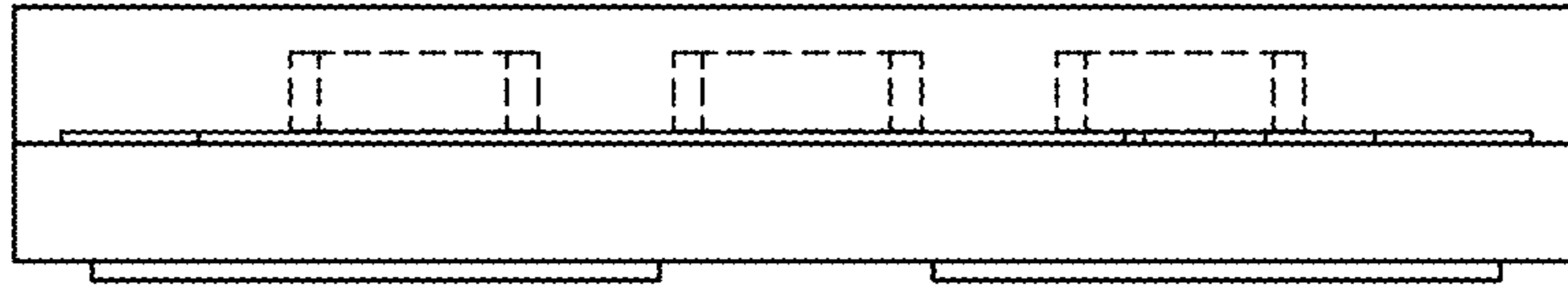


FIG. 5

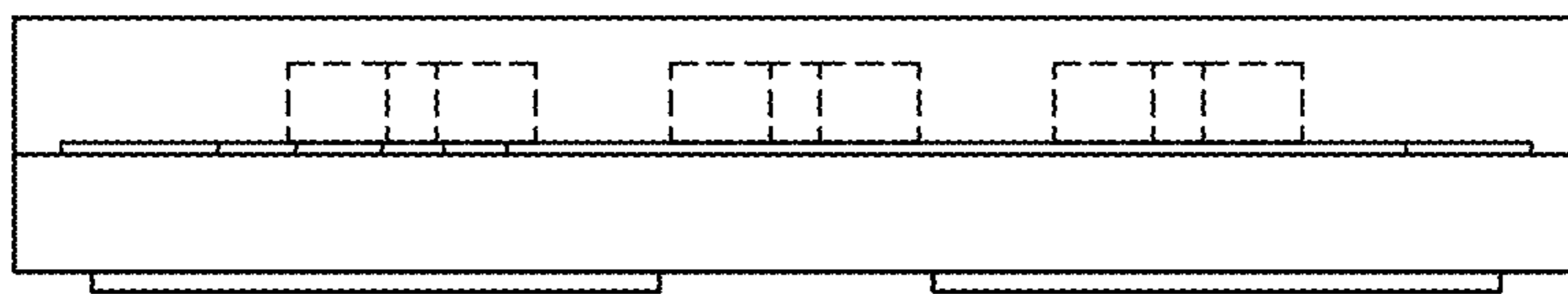


FIG. 6

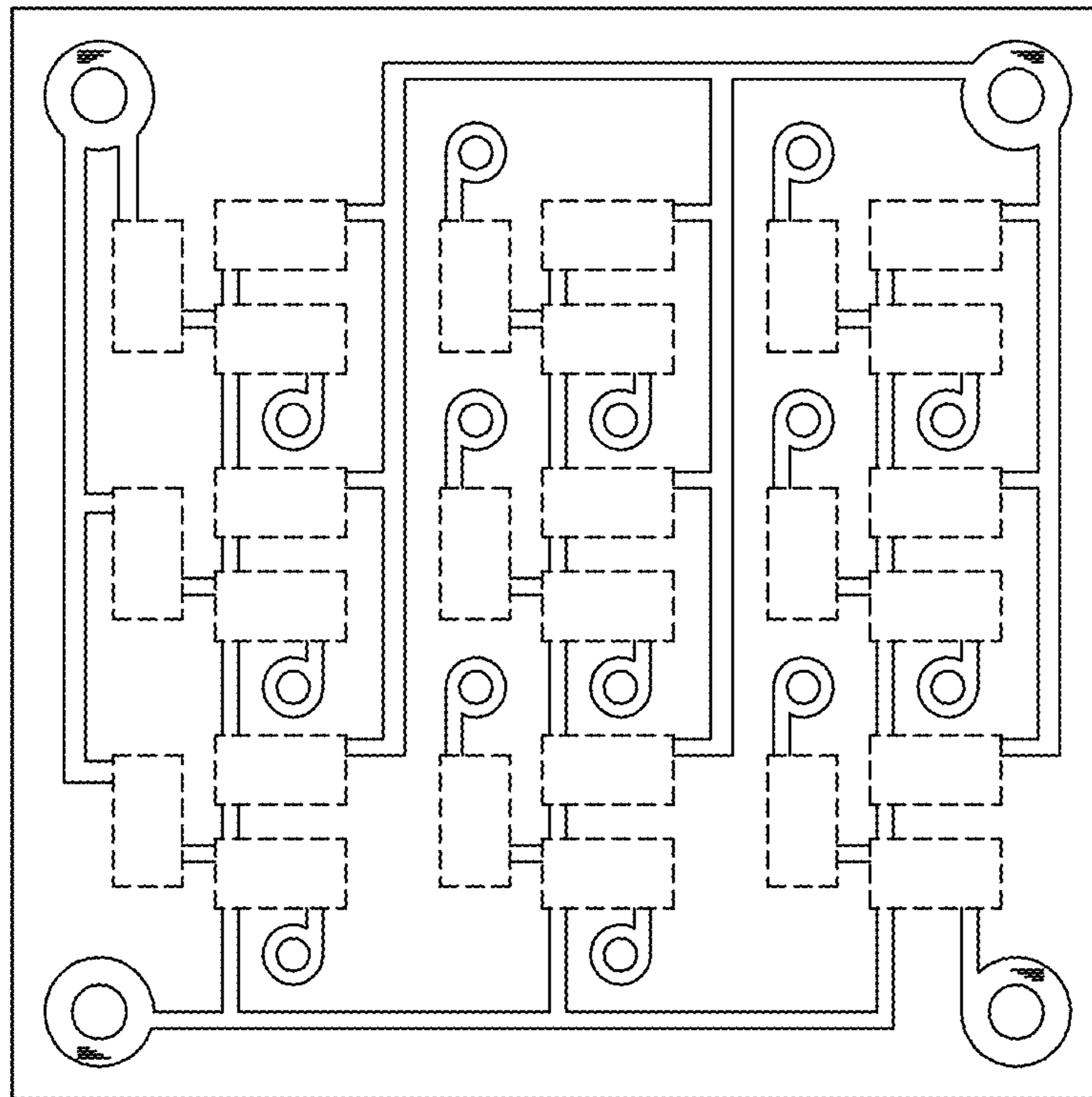


FIG. 7

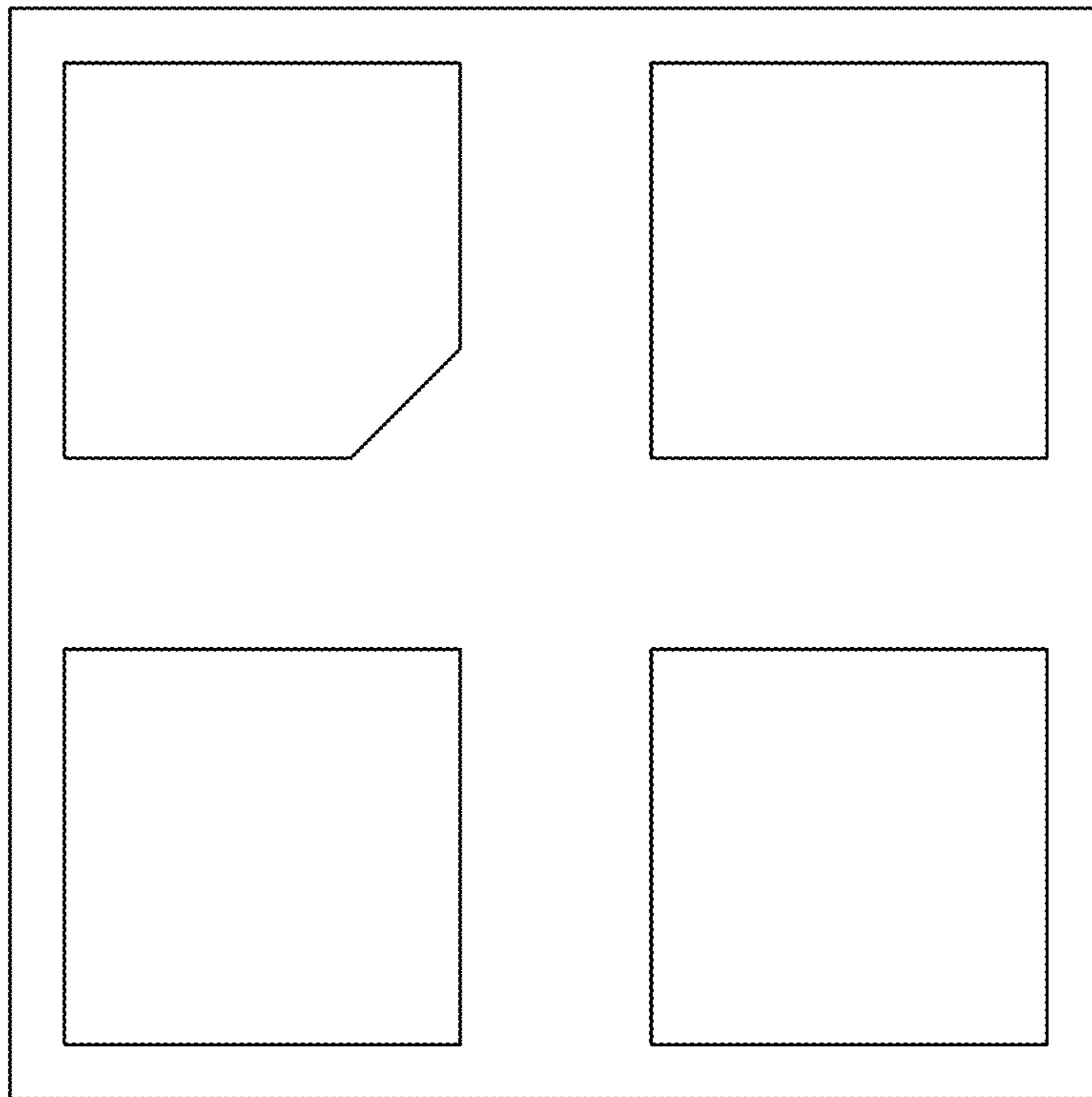


FIG. 8