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

(10) **Patent No.:** **US D770,397 S**

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- (54) **LIGHT-EMITTING DIODE UNIT**
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- (51) **LOC (10) 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 33/62; H01L 33/483;
H01L 33/486; F21K 9/00; F21K 9/30;
F21K 9/54
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D619,976 S * 7/2010 Liu D13/180
- D644,187 S * 8/2011 Shen D13/180
- 8,188,493 B2 * 5/2012 Li H01L 33/38
257/91
- D668,232 S * 10/2012 Shen D13/180
- 8,378,373 B2 * 2/2013 Wang H01L 33/38
257/99
- D681,570 S * 5/2013 Wang D13/180
- D684,127 S * 6/2013 Shen D13/180

- 8,466,487 B2 * 6/2013 Emura H01L 33/38
257/99
- D688,819 S * 8/2013 Shen D13/180
- 8,525,212 B2 * 9/2013 Kim H01L 33/38
257/623
- 8,541,806 B2 * 9/2013 Kim H01L 33/44
257/98
- D694,723 S * 12/2013 Wu D13/180
- 8,680,559 B2 * 3/2014 Kim H01L 33/38
257/98
- 8,872,204 B2 * 10/2014 Yang H01L 33/20
257/98
- 9,070,834 B2 * 6/2015 Kim H01L 33/38
- D743,355 S * 11/2015 Wang D13/180
- 2008/0210972 A1 * 9/2008 Ko H01L 33/38
257/99
- 2010/0025718 A1 * 2/2010 Shi H01L 33/483
257/99
- 2016/0118564 A1 * 4/2016 Kim H01L 33/38
257/99
- 2016/0141457 A1 * 5/2016 Ha H01L 33/38
257/99

* cited by examiner

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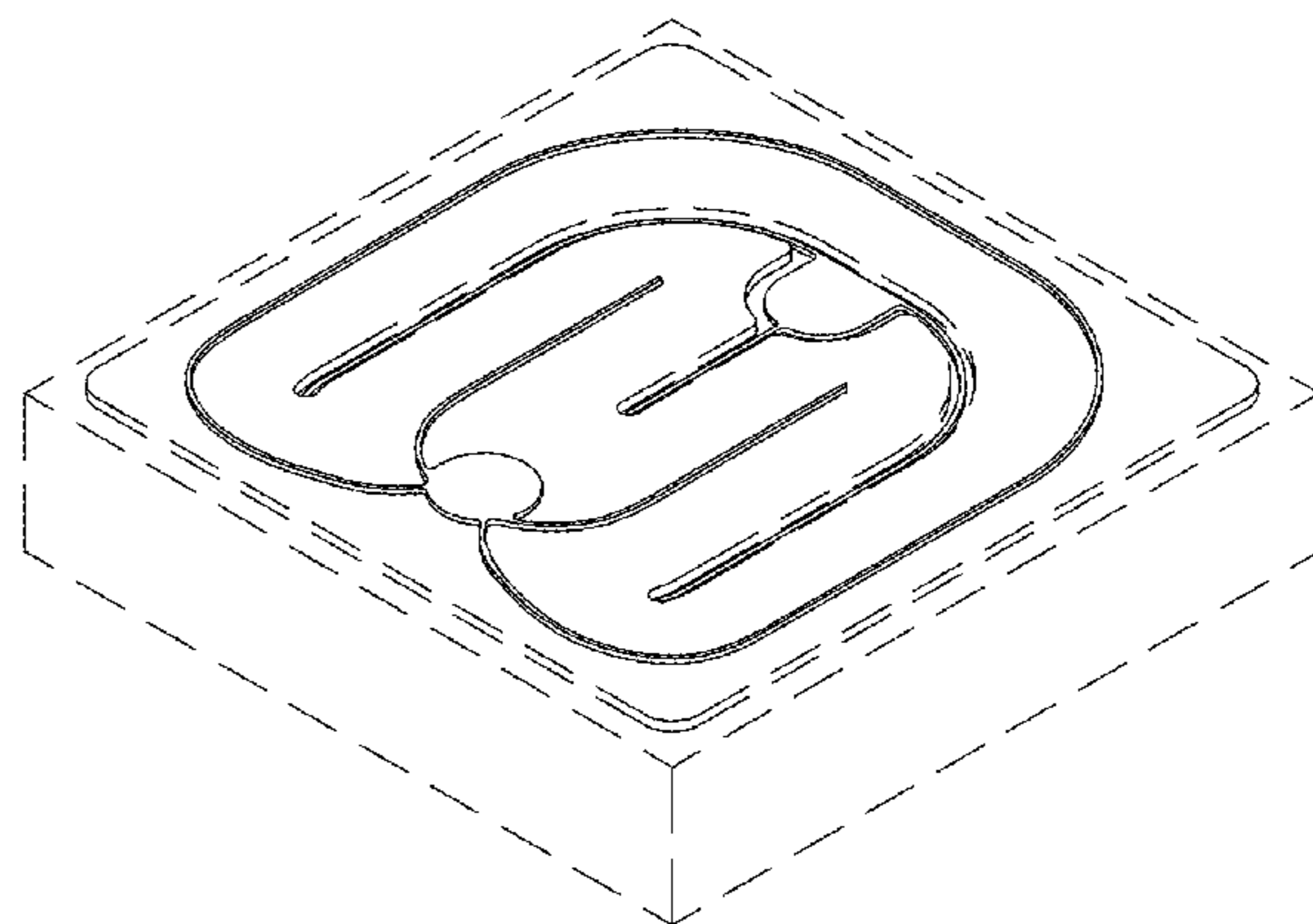
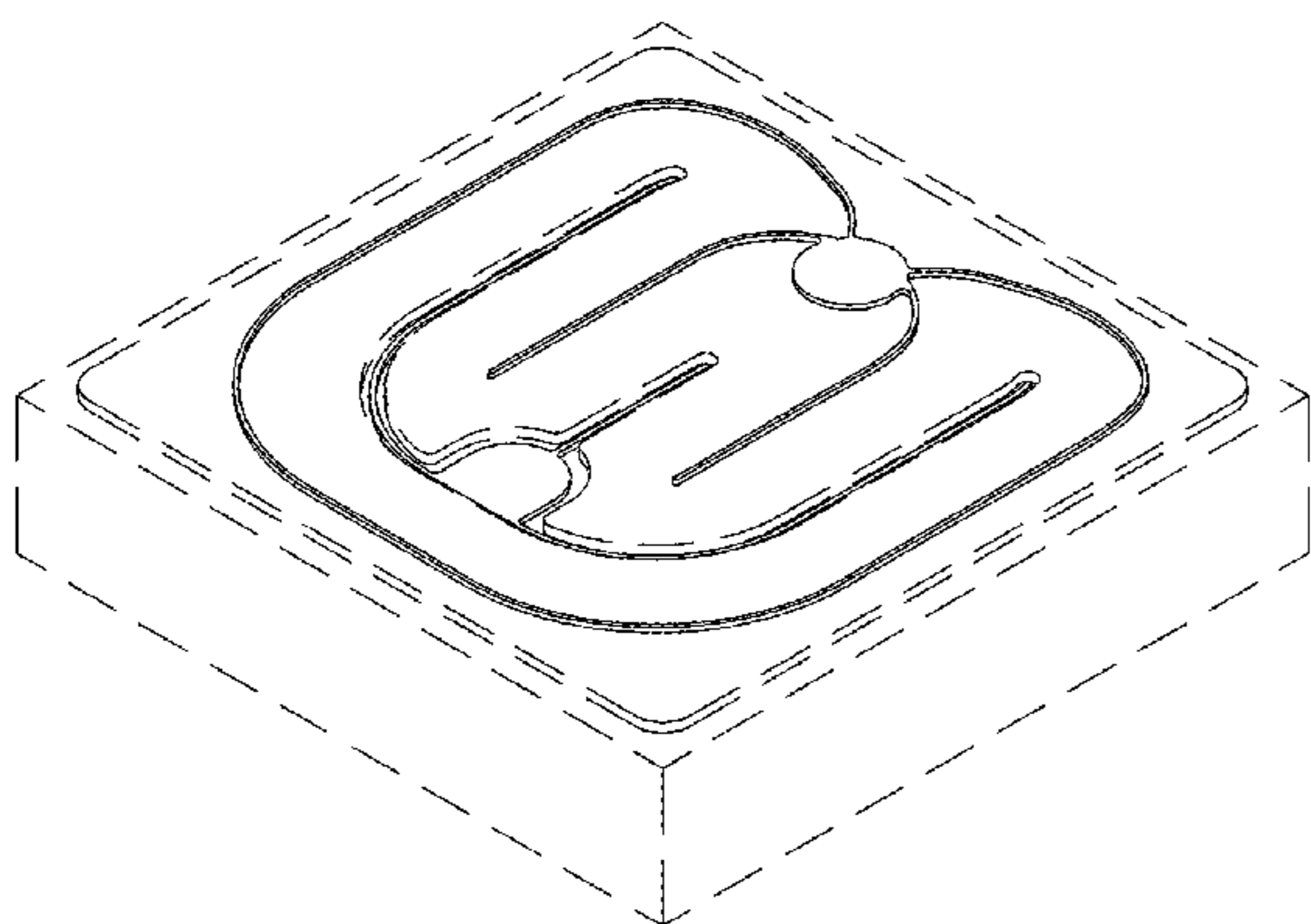
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a perspective view of a light-emitting diode unit showing our new design;
 FIG. 2 is another perspective view thereof;
 FIG. 3 is a front elevational view thereof;
 FIG. 4 is a rear side elevational view thereof;
 FIG. 5 is a left side view thereof;
 FIG. 6 is a right side view thereof;
 FIG. 7 is a top plan view thereof with the light-emitting diode unit being inverted; and,
 FIG. 8 is a bottom plan view thereof.
 The broken line showing is for the purpose of illustrating environmental structure only and forms no part of the claimed design.

1 Claim, 6 Drawing Sheets



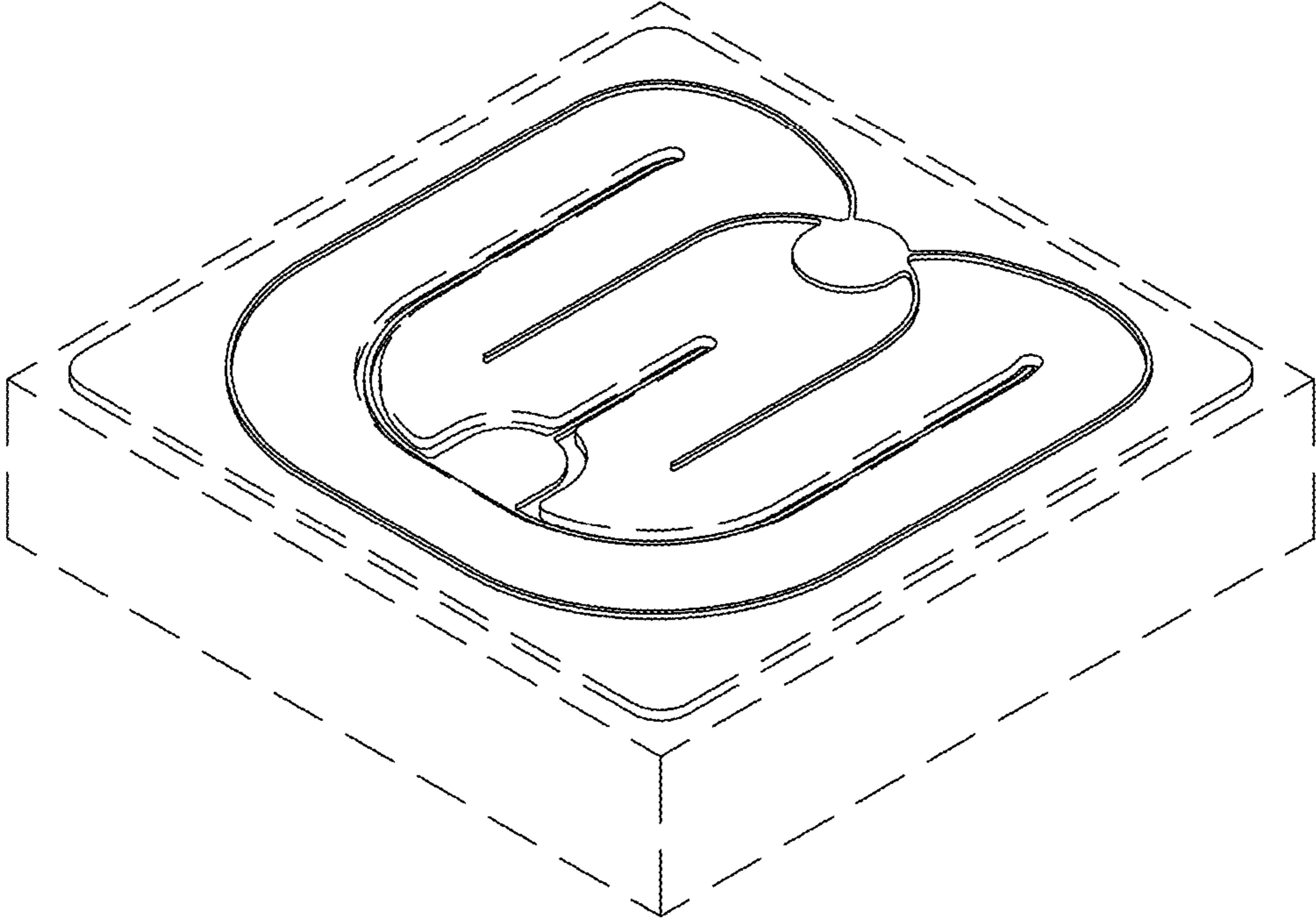


FIG. 1

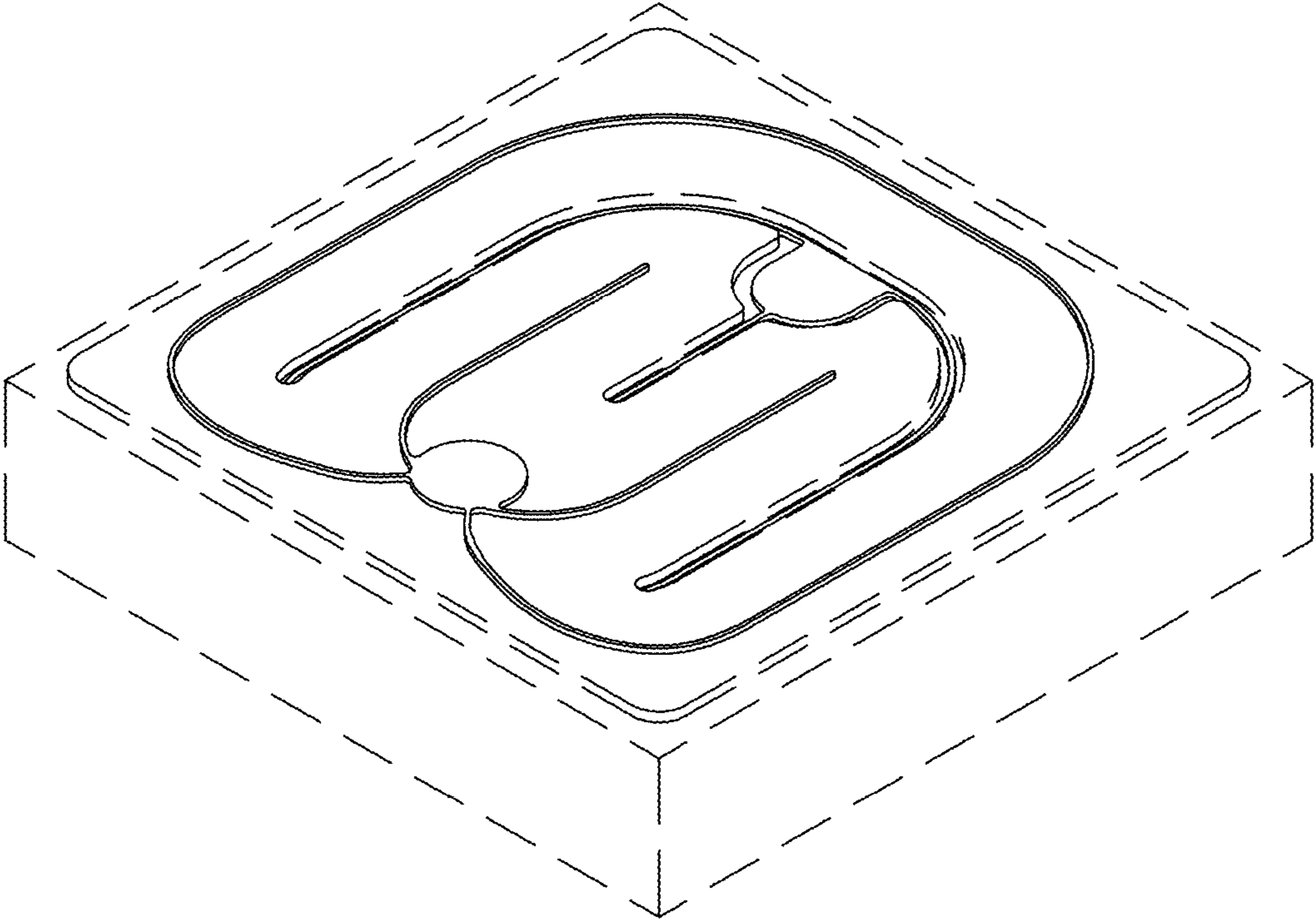


FIG. 2

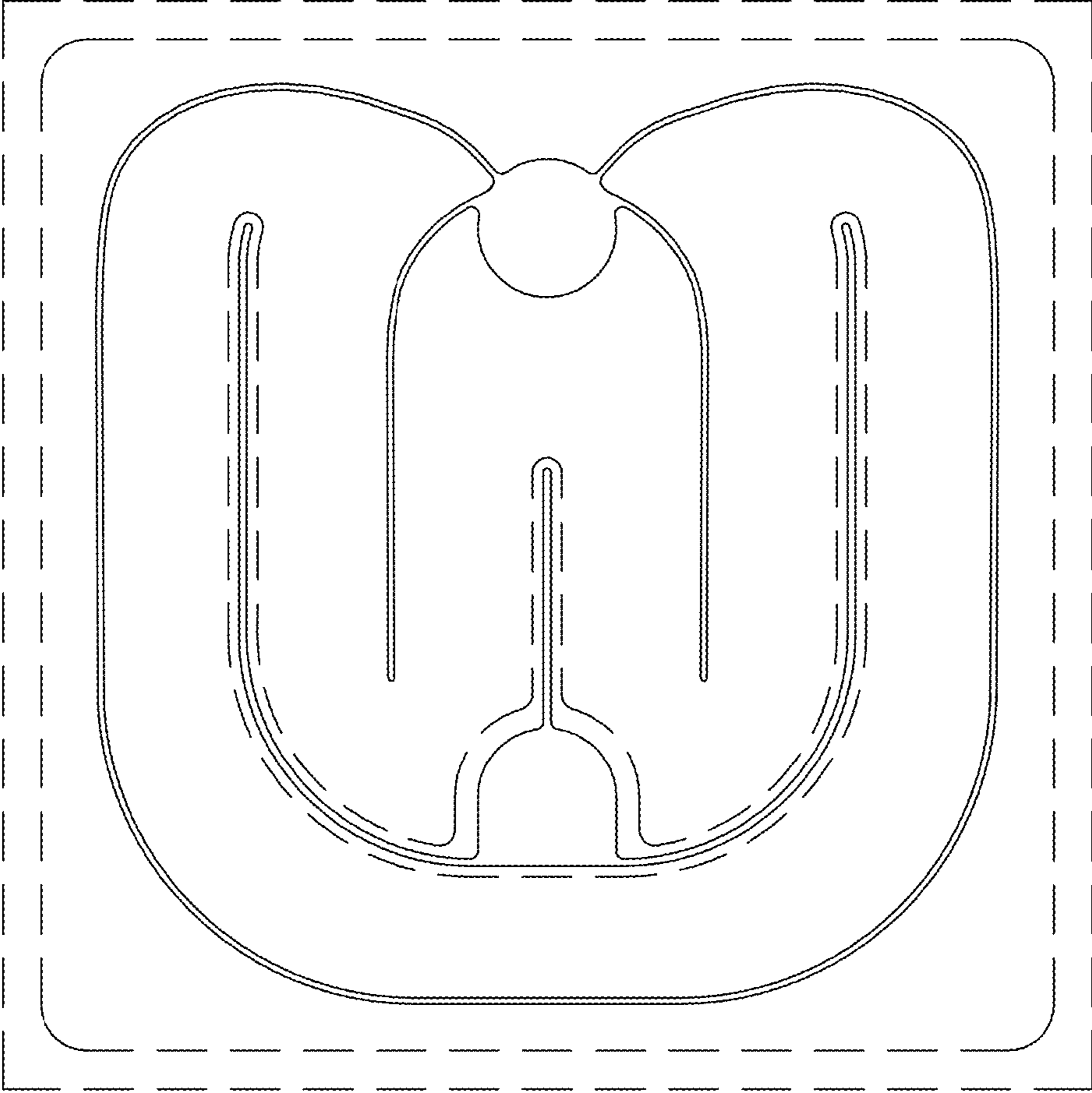


FIG. 3

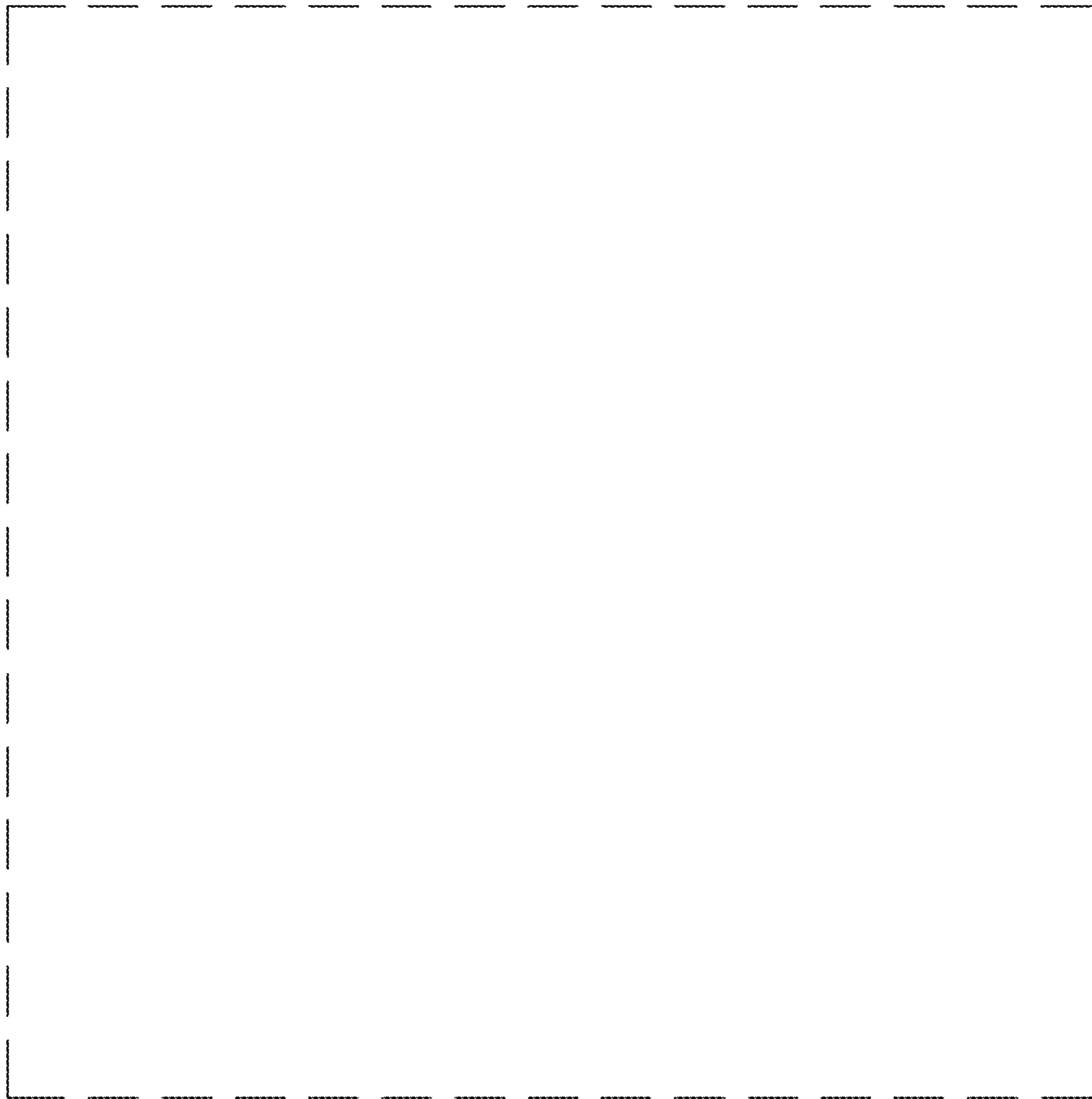


FIG. 4

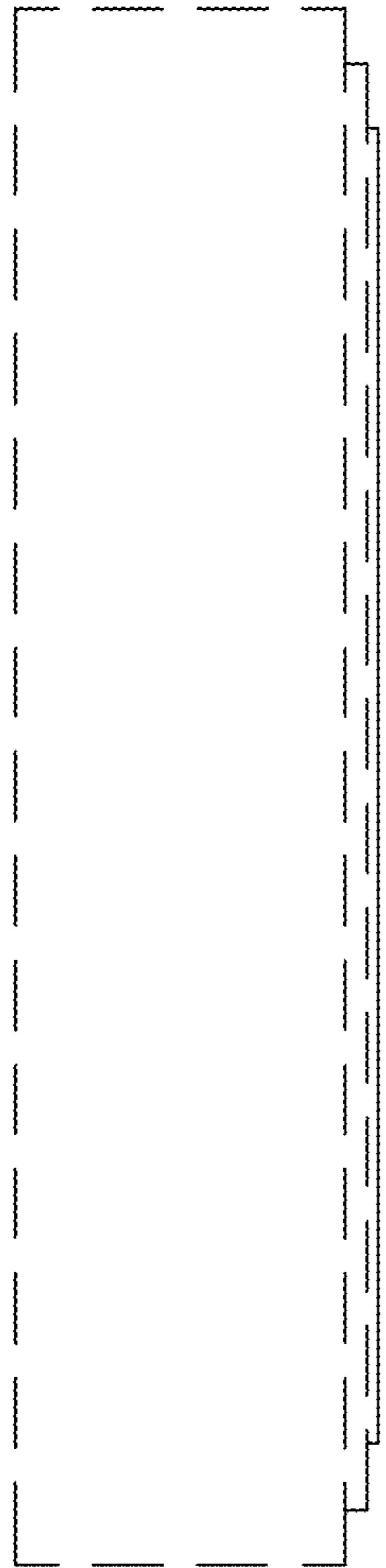


FIG. 5



FIG. 6



FIG. 7

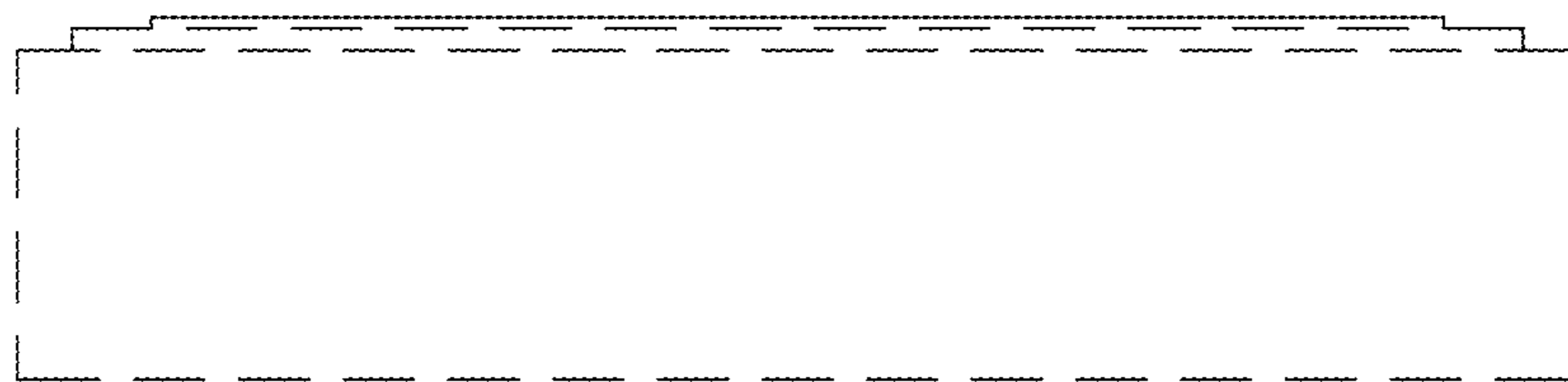


FIG. 8