



US00D689834S

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

(10) **Patent No.:** **US D689,834 S**

(45) **Date of Patent:** **** *Sep. 17, 2013**

(54) **LED CHIP**

(75) Inventors: **Chen-Fu Chu**, Miao-Li County (TW);
Chao-Chen Cheng, Miao-Li County
(TW); **Li-Wei Shan**, Miao-Li County
(TW)

(73) Assignee: **Semileds Opto Electronics Co., Ltd.**,
Miao-Li County (TW)

(*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/419,110**

(22) Filed: **Apr. 25, 2012**
(Under 37 CFR 1.47)

(30) **Foreign Application Priority Data**

Oct. 28, 2011 (TW) 100305815

(51) **LOC (9) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/182**

(58) **Field of Classification Search**
USPC D13/180; D26/1; 257/79, 80, 81,
257/88, 89, 95, 98, 99, 100, E33.058; 313/483,
313/498, 500; 362/555, 800
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 6,547,249 B2 * 4/2003 Collins et al. 257/88
- 6,573,537 B1 * 6/2003 Steigerwald et al. 257/103
- 6,921,924 B2 * 7/2005 Tsai et al. 257/95
- 7,179,670 B2 * 2/2007 Shelton et al. 438/26
- D566,056 S * 4/2008 Edmond et al. D13/180
- D566,057 S * 4/2008 Edmond et al. D13/180
- 7,436,066 B2 * 10/2008 Sonobe et al. 257/767

- D580,888 S * 11/2008 Liu D13/180
- D593,968 S * 6/2009 Edmond et al. D13/180
- D599,748 S * 9/2009 Liu D13/180
- D602,450 S * 10/2009 Edmond et al. D13/180
- D606,949 S * 12/2009 Liu D13/180
- D635,525 S * 4/2011 Edmond et al. D13/180
- D647,493 S * 10/2011 Chang et al. D13/180
- D647,494 S * 10/2011 Chang et al. D13/180
- D647,495 S * 10/2011 Chang et al. D13/180
- D673,125 S * 12/2012 Edmond et al. D13/180
- D675,580 S * 2/2013 Edmond et al. D13/180
- D676,001 S * 2/2013 Hsu et al. D13/180
- 2003/0107053 A1 * 6/2003 Uemura et al. 257/200

(Continued)

Primary Examiner — Selina Sikder

(74) *Attorney, Agent, or Firm* — WPAT, PC; Justin King

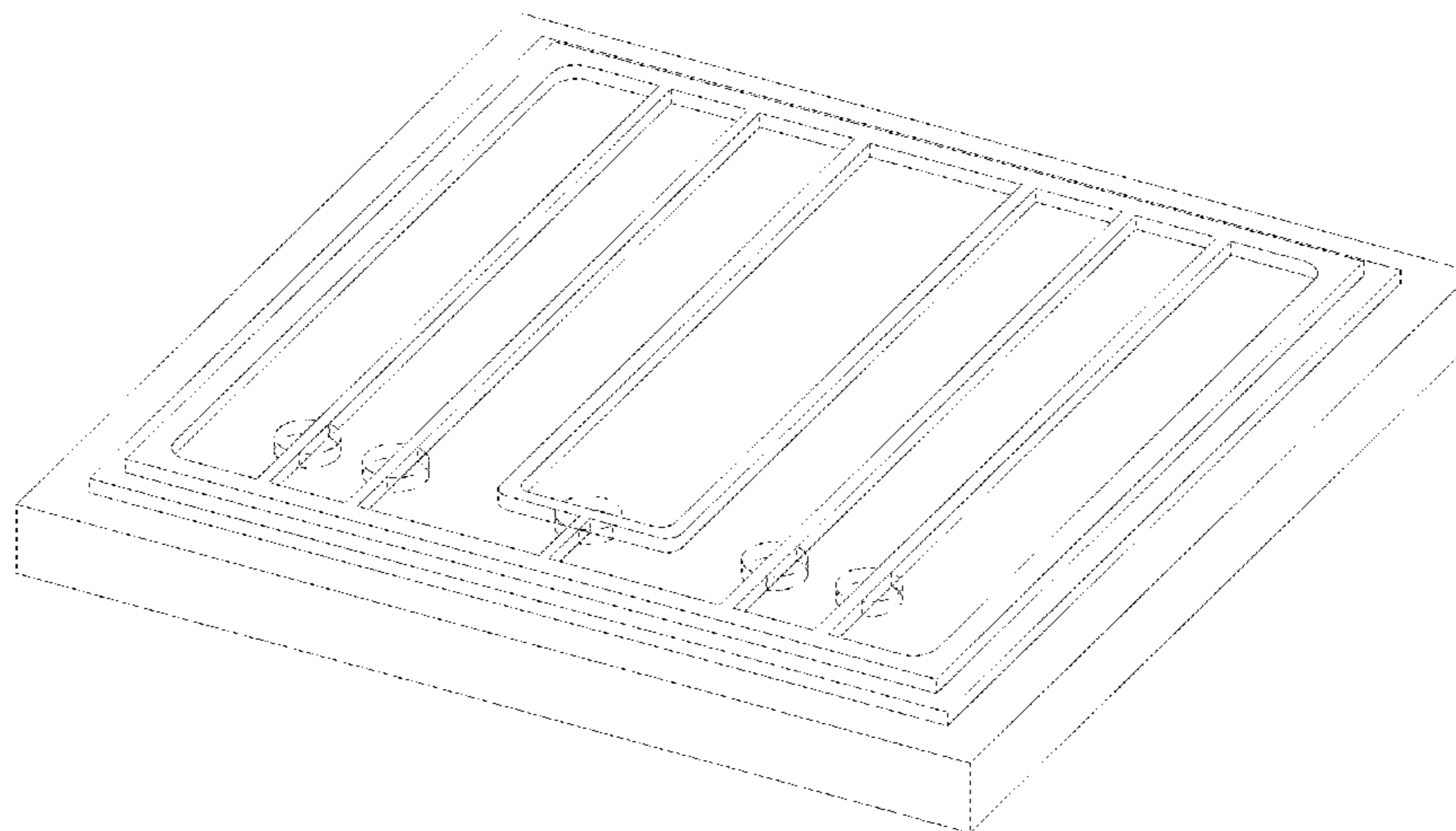
(57) **CLAIM**

The ornamental design for a LED chip, as shown and described in the drawings.

DESCRIPTION

FIG. 1 is a perspective view of a light emitting diode device showing my new design;
 FIG. 2 is a top view thereof;
 FIG. 3 is a front view thereof;
 FIG. 4 is a back view thereof;
 FIG. 5 is a left view thereof;
 FIG. 6 is a right view thereof;
 FIG. 7 is a cross-sectional view thereof, take along line 7-7 in FIG. 2.;
 FIG. 8 is a cross-sectional view thereof, take along line 8-8 in FIG. 2.;
 FIG. 9 is a right side view of thereof; the left side view is a mirror image of the right side view; and,
 FIG. 10 is a front view of thereof; the backside view is a mirror image of the front side view.
 It will be understood that the dash lines presented in the drawings are for illustration only, and do not form a part of the claimed design.

1 Claim, 8 Drawing Sheets



US D689,834 S

Page 2

(56)

References Cited

				2007/0085095 A1*	4/2007	Ko et al.	257/94	
				2009/0050924 A1*	2/2009	Edmond	257/99	
				2009/0283787 A1*	11/2009	Donofrio et al.	257/98	
	U.S. PATENT DOCUMENTS							
	2003/0230754 A1*	12/2003	Steigerwald et al.	257/91				
	2006/0237735 A1*	10/2006	Naulin et al.	257/98				

* cited by examiner

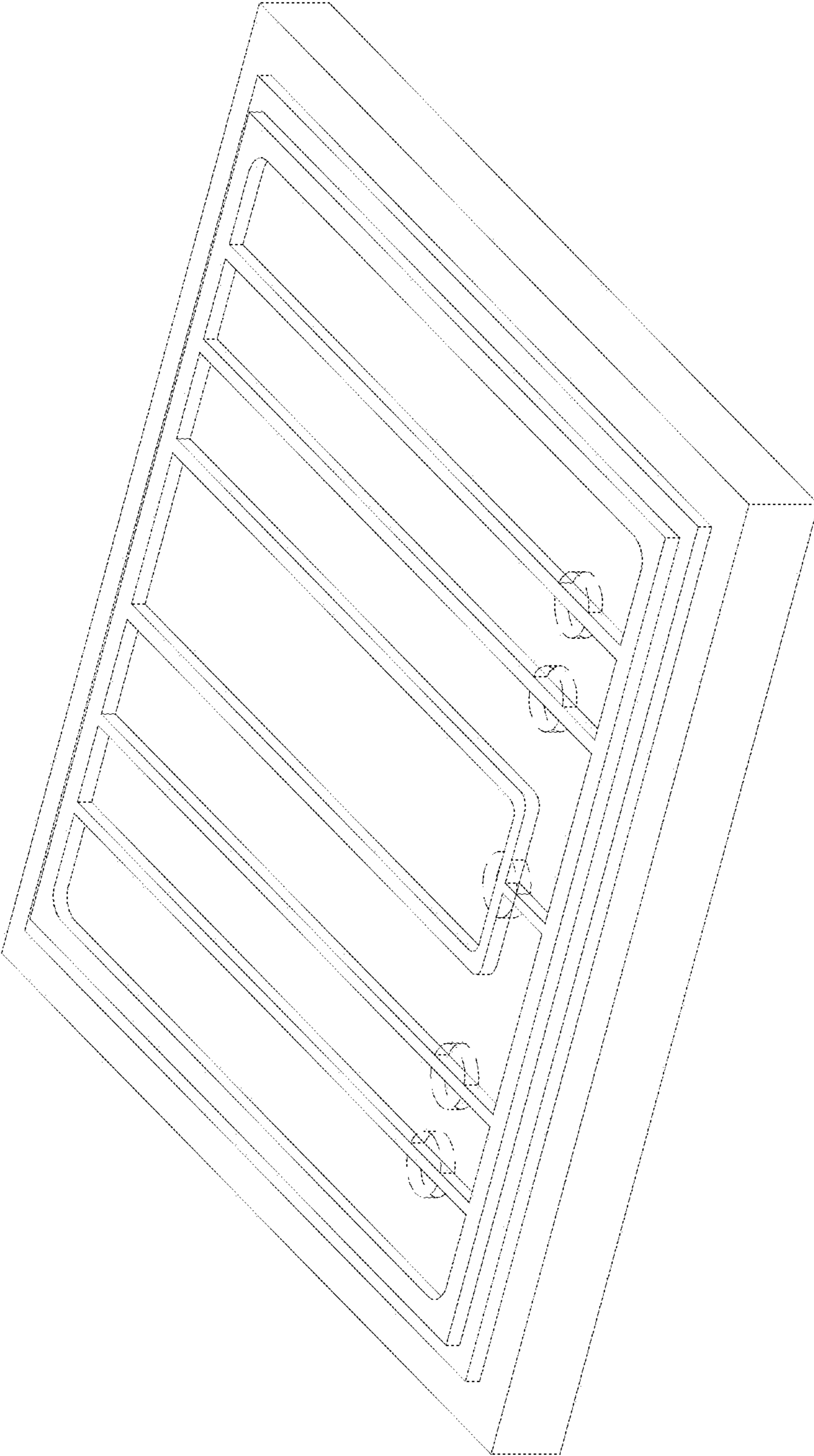


Fig. 1

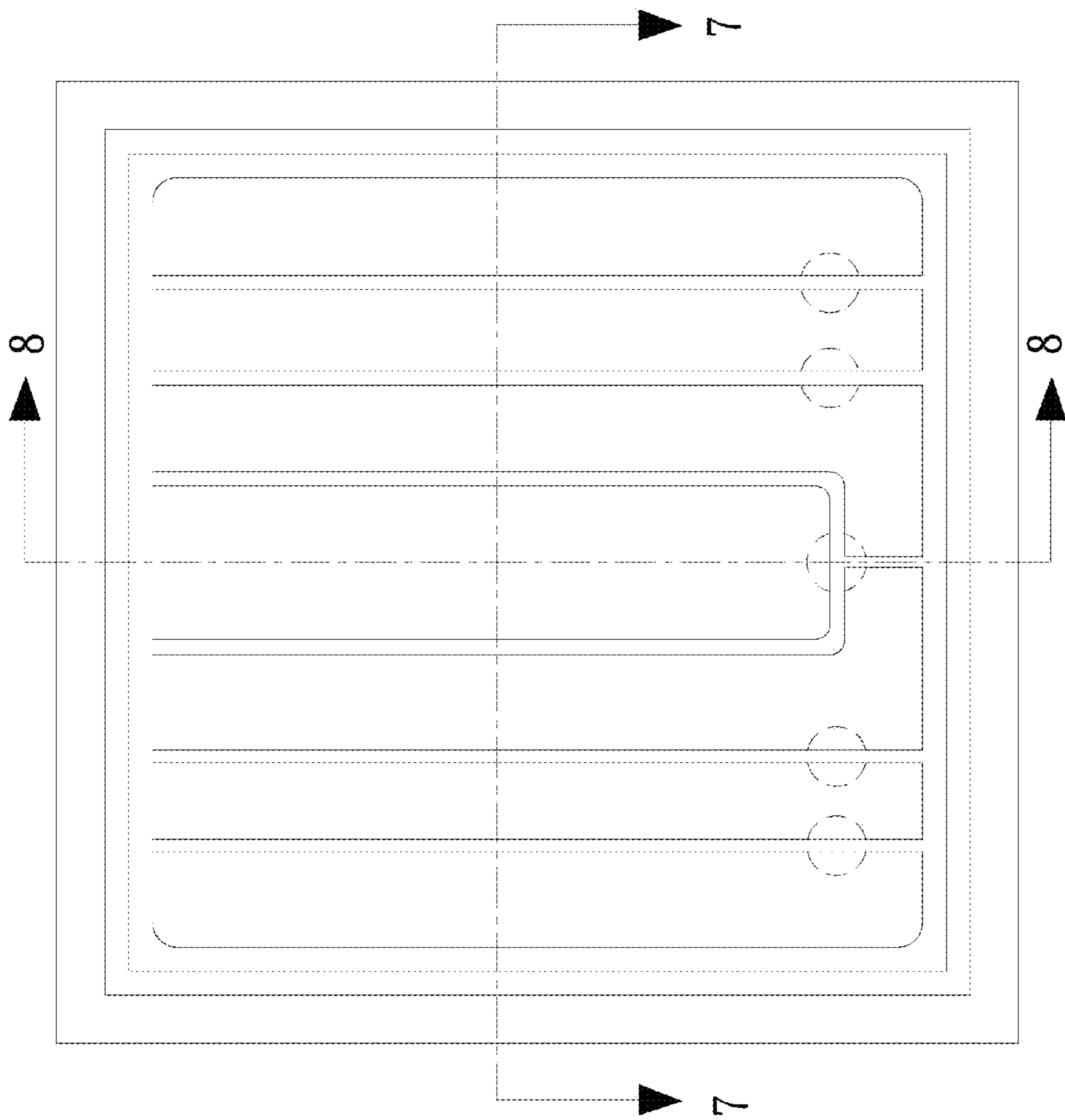


Fig. 2

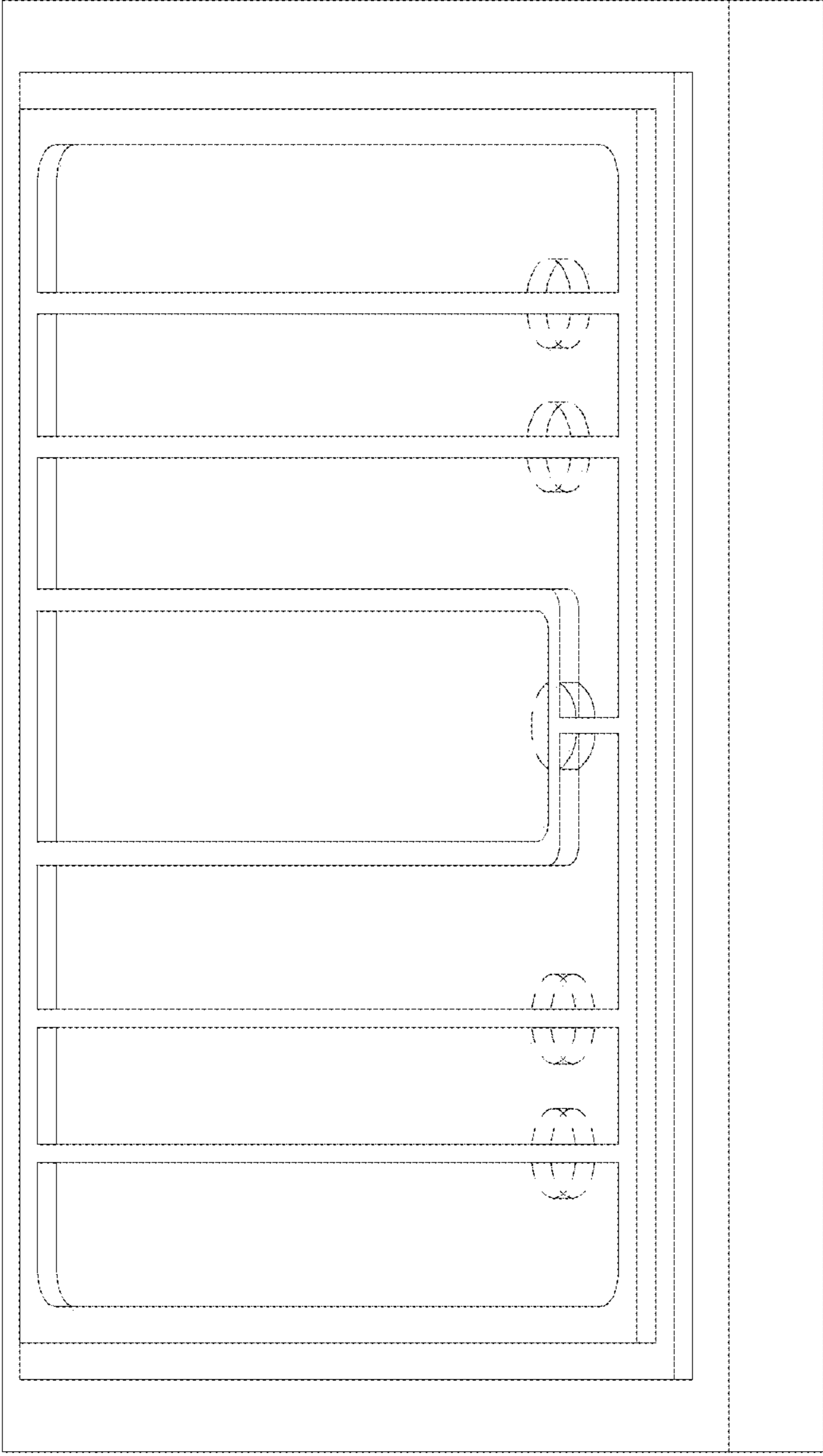


Fig. 3

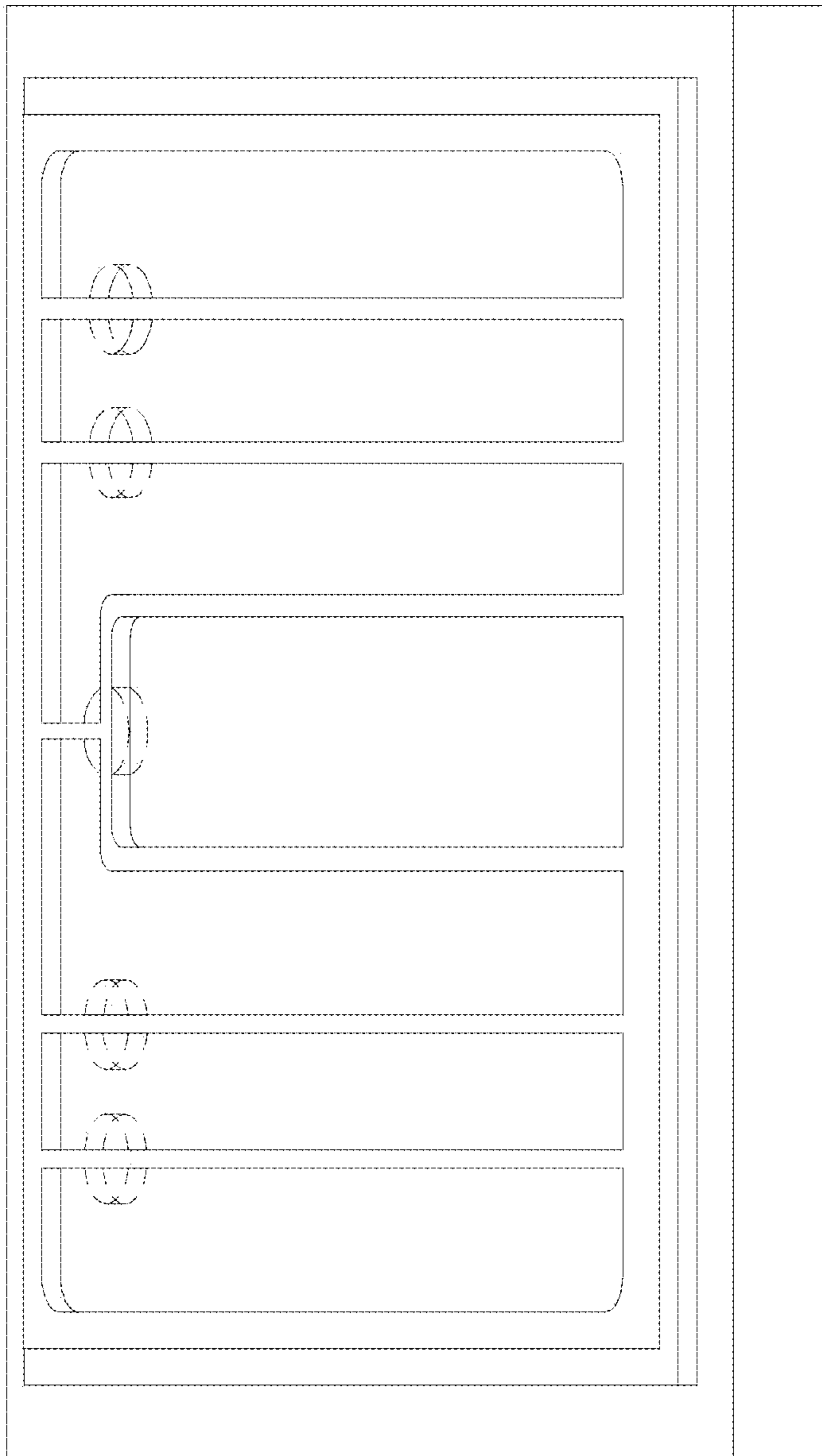


Fig. 4

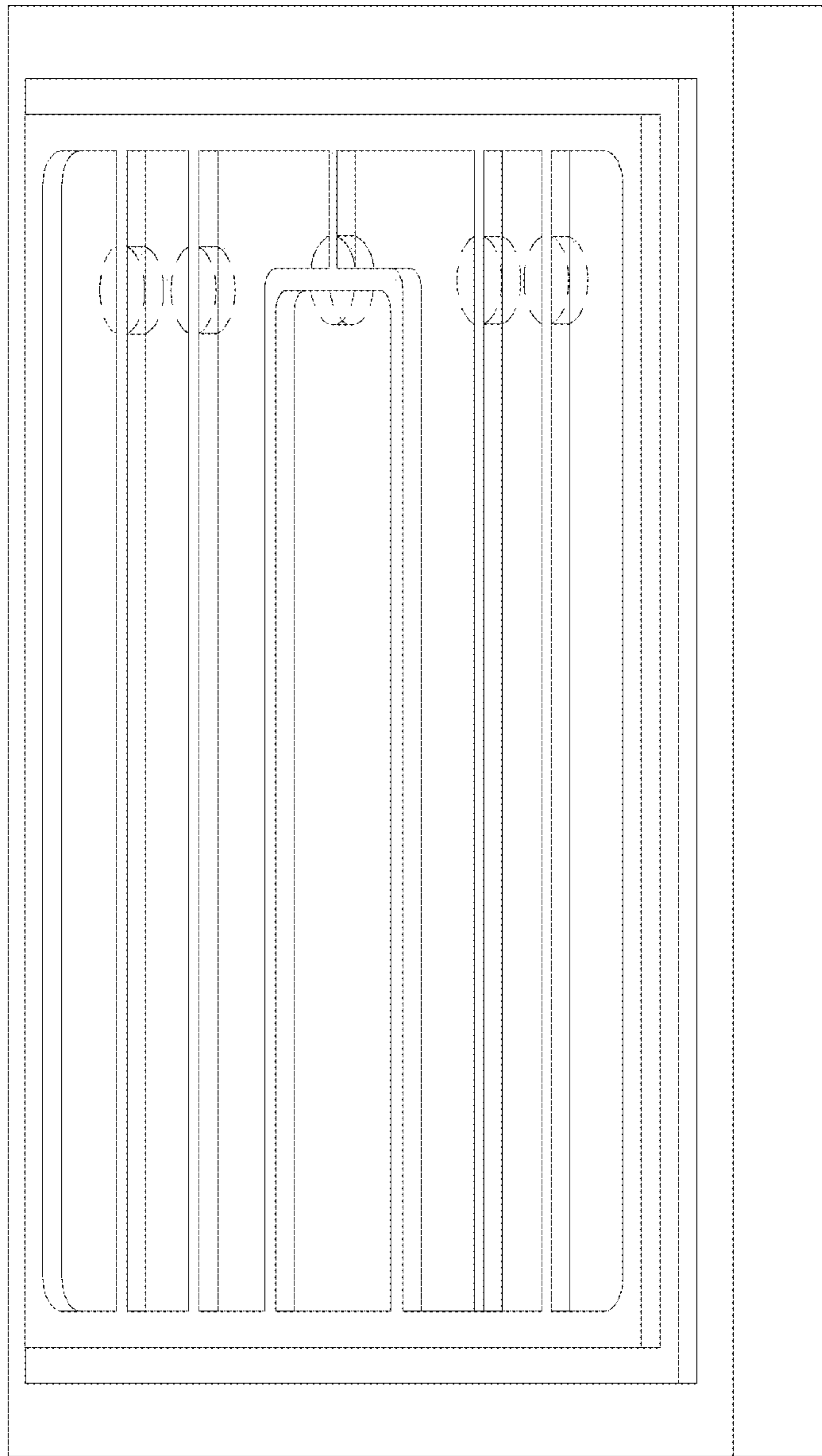


Fig. 5

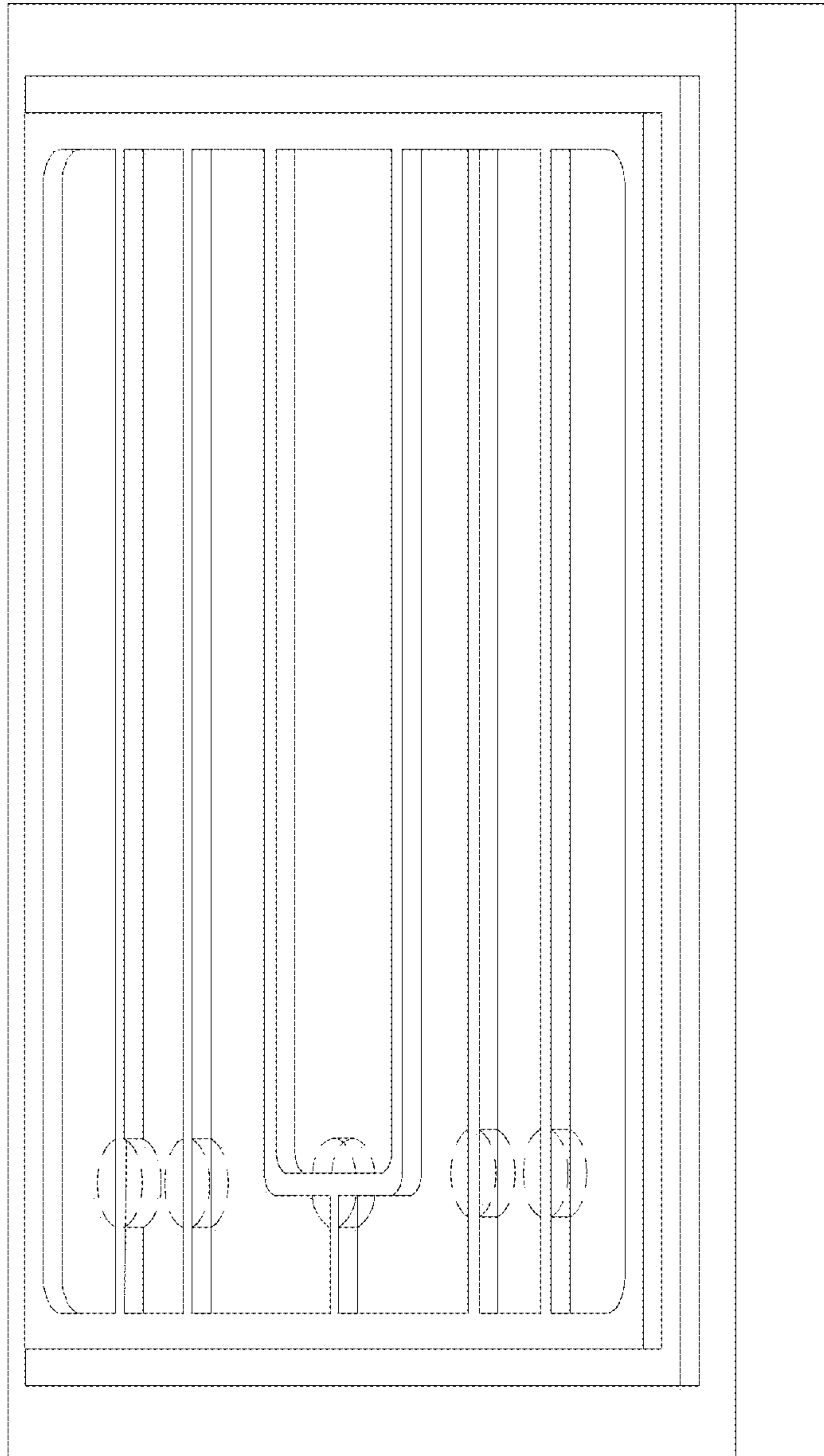


Fig. 6

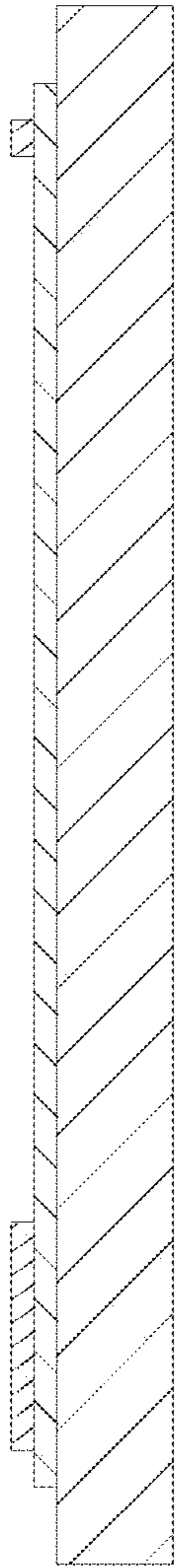


Fig. 7

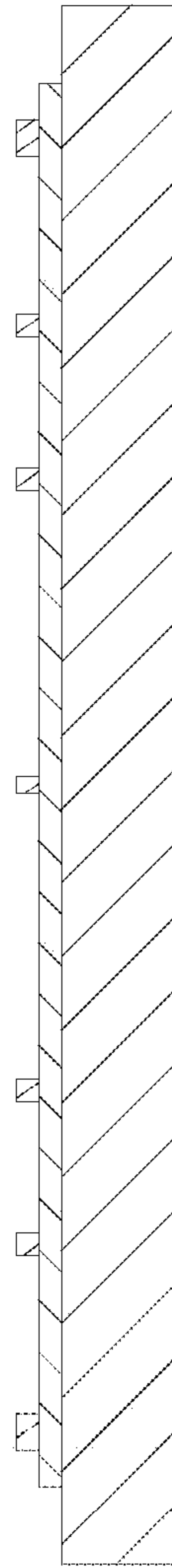


Fig. 8

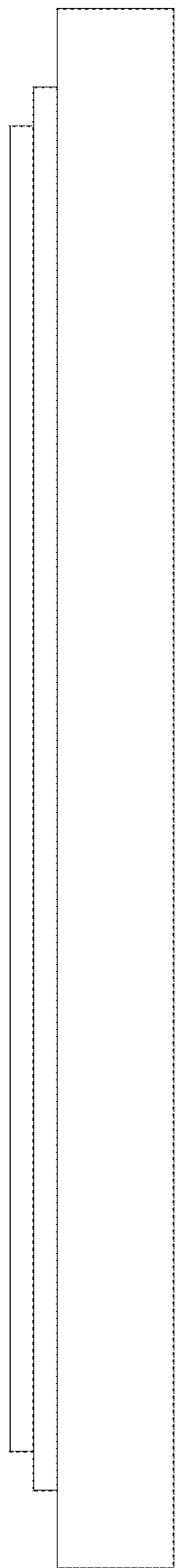


Fig. 9

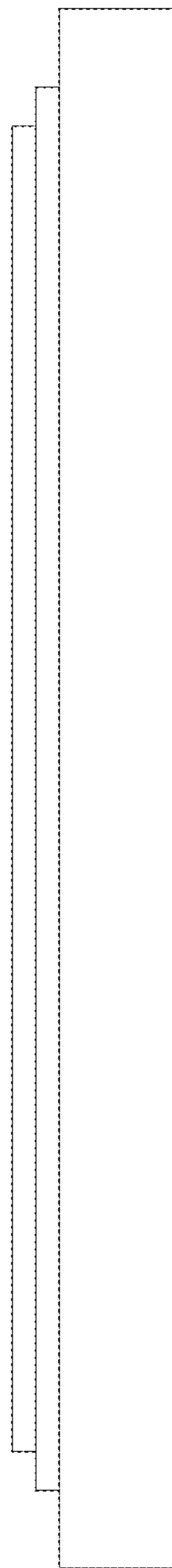


Fig. 10