



US00D853018S

(12) **United States Design Patent** (10) **Patent No.:** **US D853,018 S**
Chen et al. (45) **Date of Patent:** **** Jul. 2, 2019**

(54) **LED LENS**

5/04; F21V 5/08; F21V 5/043; F21V 5/045; F21V 21/02; F21V 21/04

(71) Applicant: **HANGZHOU HPWINNER OPTO CORPORATION**, Hangzhou, Zhejiang Province (CN)

See application file for complete search history.

(72) Inventors: **Kai Chen**, Hangzhou (CN); **Jianming Huang**, Hangzhou (CN)

(56) **References Cited**

(73) Assignee: **HANGZHOU HPWINNER OPTO CORPORATION**, Hangzhou, Zhejiang Province (CN)

U.S. PATENT DOCUMENTS

(**) Term: **15 Years**

D437,070 S *	1/2001	Swensson	.....	D26/59
D529,203 S *	9/2006	Nagai	.....	D26/1
D614,336 S *	4/2010	Zheng	.....	D26/71
D640,822 S *	6/2011	Wildner	.....	D26/89
D678,582 S *	3/2013	Du	.....	D26/71
D700,987 S *	3/2014	Nepple	.....	D26/120
D737,501 S *	8/2015	Chen	.....	D26/120
D744,156 S *	11/2015	Kjaergaard Toft	.....	D26/120
D751,240 S *	3/2016	Wilcox	.....	D26/118
D768,888 S *	10/2016	Tan	.....	D13/180
D784,574 S *	4/2017	Wang	.....	D13/180
D790,085 S *	6/2017	Goltche	.....	D26/1
D792,011 S *	7/2017	Bobel	.....	D26/71

(21) Appl. No.: **29/646,712**

(Continued)

(22) Filed: **May 7, 2018**

Primary Examiner — Wan Laymon

(30) **Foreign Application Priority Data**

Assistant Examiner — Clint A Samuel

Nov. 7, 2017 (CN) 2017 3 0544819

(74) *Attorney, Agent, or Firm* — Muncy, Geissler, Olds & Lowe, P.C.

(51) **LOC (11) Cl.** **26-05**

(57) **CLAIM**

(52) **U.S. Cl.**

The ornamental design for a LED lens, as shown and described.

USPC **D26/120**

(58) **Field of Classification Search**

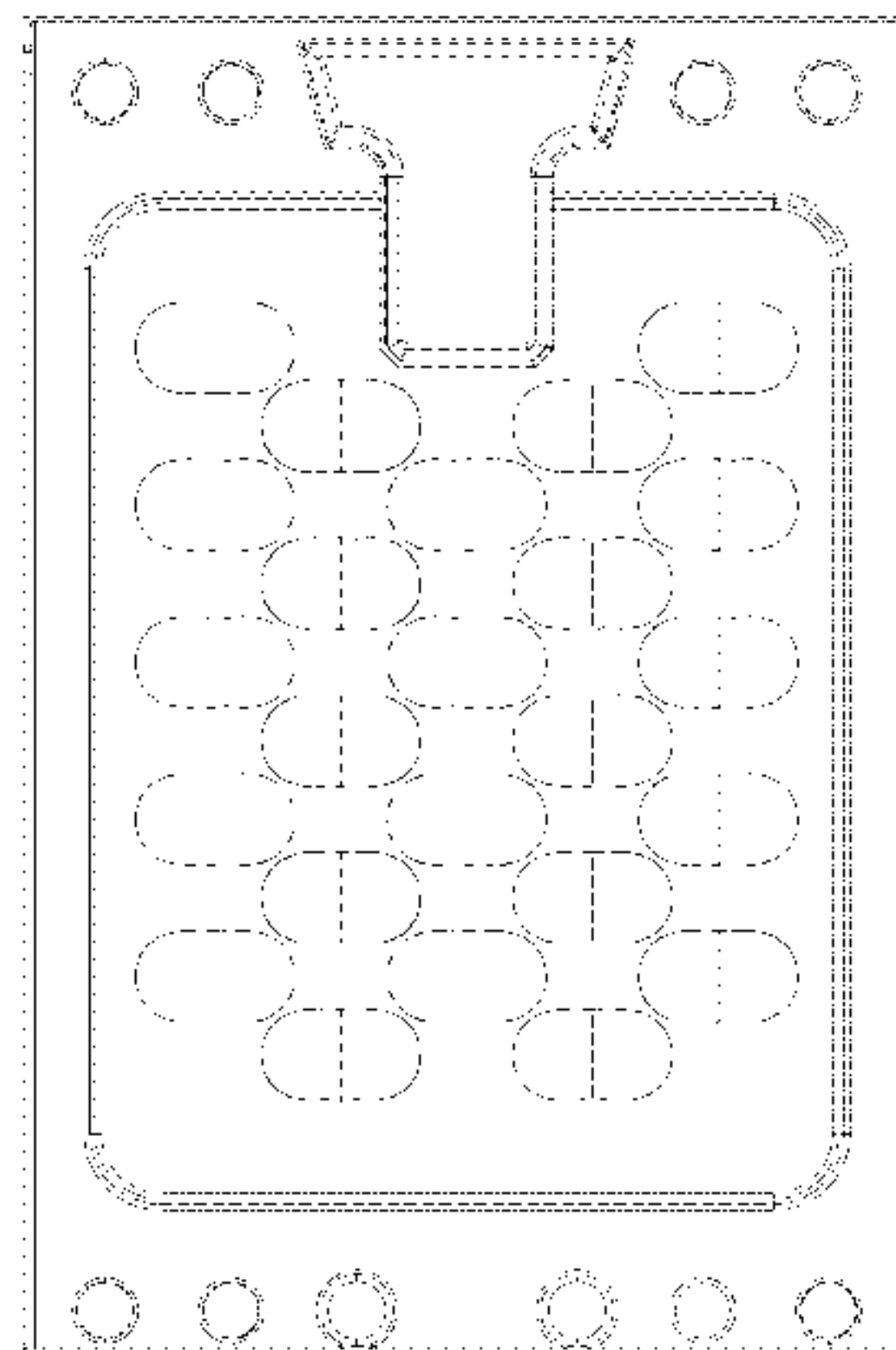
DESCRIPTION

USPC D26/1, 59, 71, 74, 76, 85, 87, 90, 118, D26/139; D23/377, 379, 411; 362/147, 362/148, 317, 325, 335, 338, 351, 362, 362/365, 435-456, 479, 483, 488, 490, 362/800

FIG. 1 is a front elevational view of a LED lens showing our new design;
FIG. 2 is a rear elevational view thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom plan view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is front perspective view thereof; and,
FIG. 8 is a rear perspective view thereof.

CPC F21S 8/00; F21S 8/04; F21S 8/026; F21S 41/19; F21S 43/14; F21S 43/19; F21S 43/20; F21S 43/26; F21S 43/235; F21S 43/236; F21V 11/02; F21V 11/06; F21V 11/08; F21V 1/00; F21V 1/14; F21V 1/143; F21V 3/00; F21V 3/049; F21V 3/0615; F21V 3/0625; F21V 5/00; F21V

(Continued)



The dash-dot-dash-dot broken lines are boundary lines, which define the bounds of the claimed design. The claimed design extends to the boundary lines but does not include the boundary lines.

1 Claim, 8 Drawing Sheets

(56)

References Cited

U.S. PATENT DOCUMENTS

D822,261	S *	7/2018	Demuynck	.....	D26/92
D831,883	S *	10/2018	Goltche	.....	D26/139
D838,027	S *	1/2019	Bobel	.....	D26/71
D841,219	S *	2/2019	Chen	.....	D26/85
2005/0094414	A1 *	5/2005	Ishida	.....	F21S 41/147 362/545
2010/0032693	A1 *	2/2010	Sugiura	.....	H01L 33/60 257/88
2011/0157891	A1 *	6/2011	Davis	.....	B29C 45/14467 362/244
2012/0307504	A1 *	12/2012	Chou	.....	F21V 5/007 362/351
2013/0039054	A1 *	2/2013	Yang	.....	F21V 5/04 362/234
2014/0268762	A1 *	9/2014	Raleigh	.....	F21V 5/04 362/244
2015/0153033	A1 *	6/2015	Kuo	.....	F21K 9/00 362/311.02
2017/0167713	A1 *	6/2017	Hong	.....	F21V 29/74
2018/0266652	A1 *	9/2018	Dedick	.....	F21V 3/0625

* cited by examiner

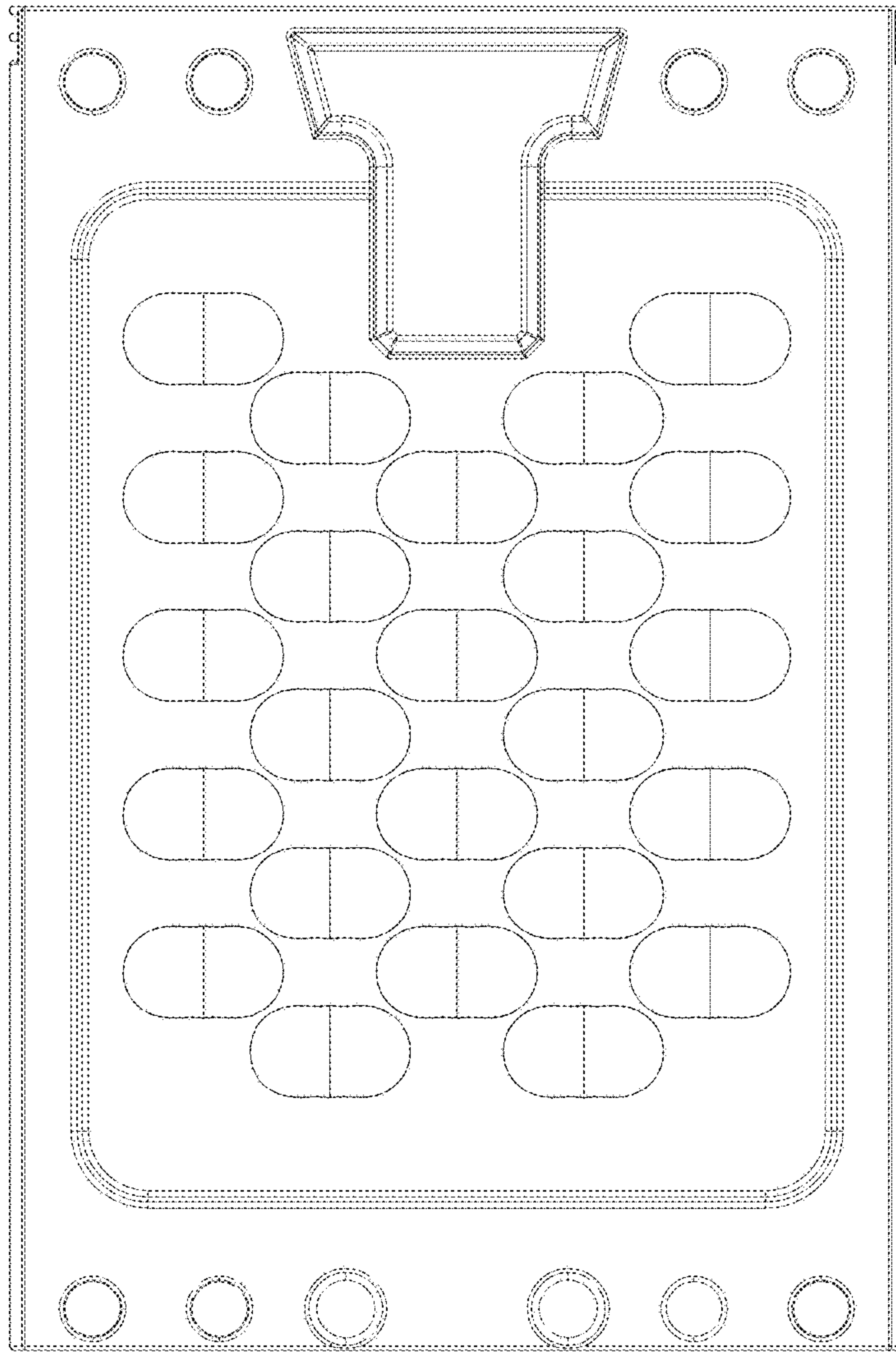


FIG.1

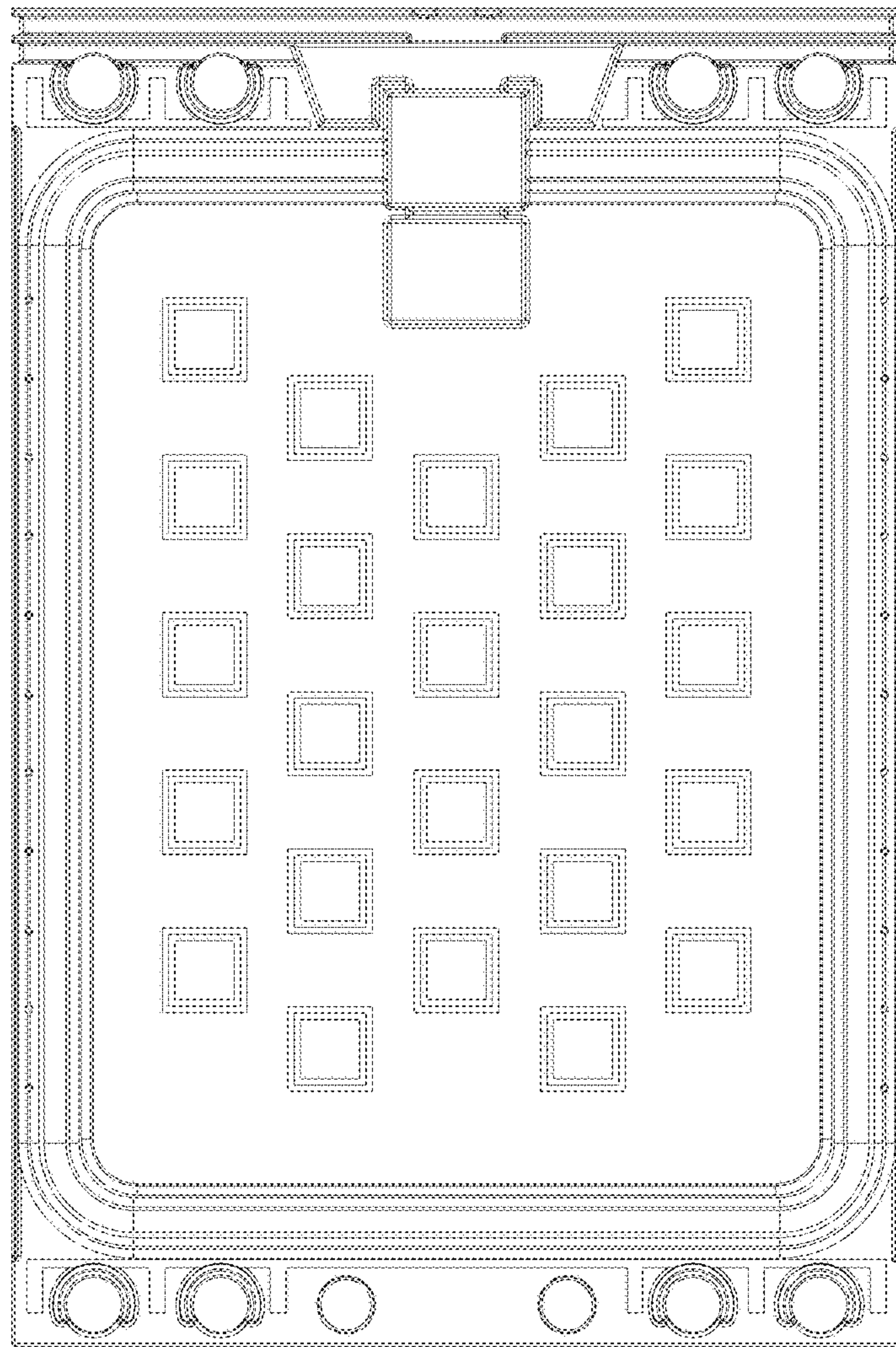


FIG.2

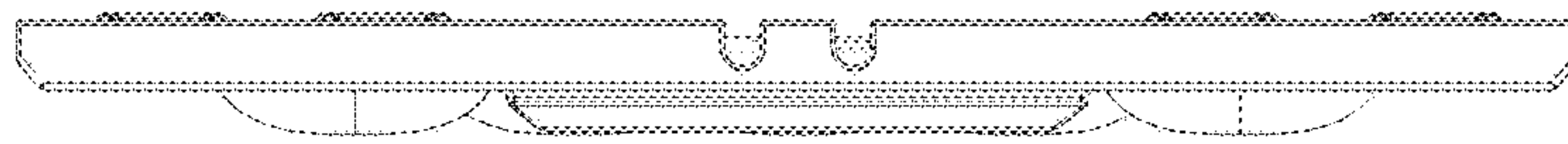


FIG.3

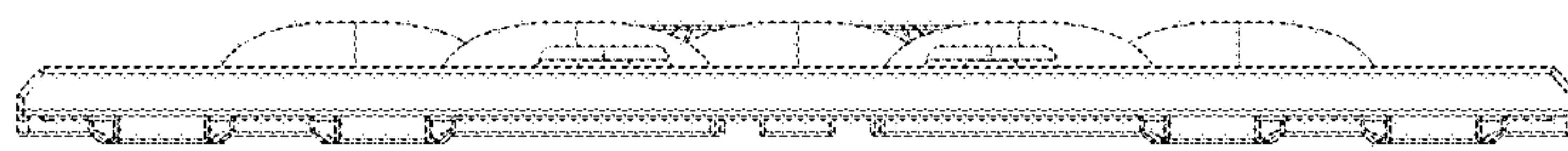


FIG.4



FIG.5

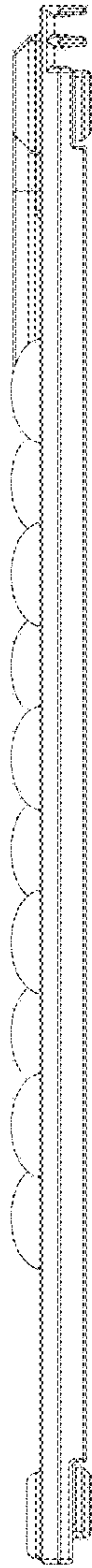


FIG.6

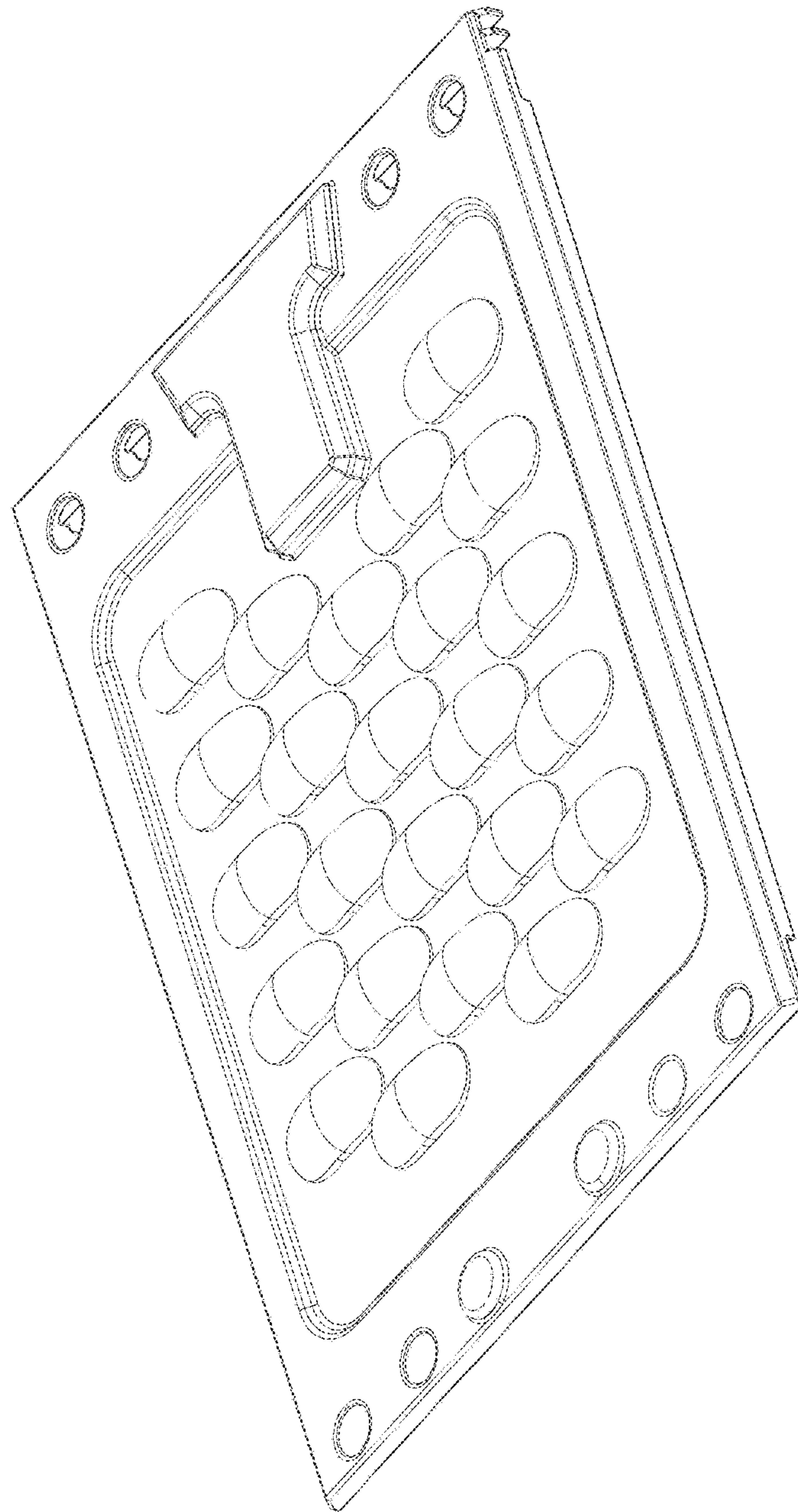


FIG.7

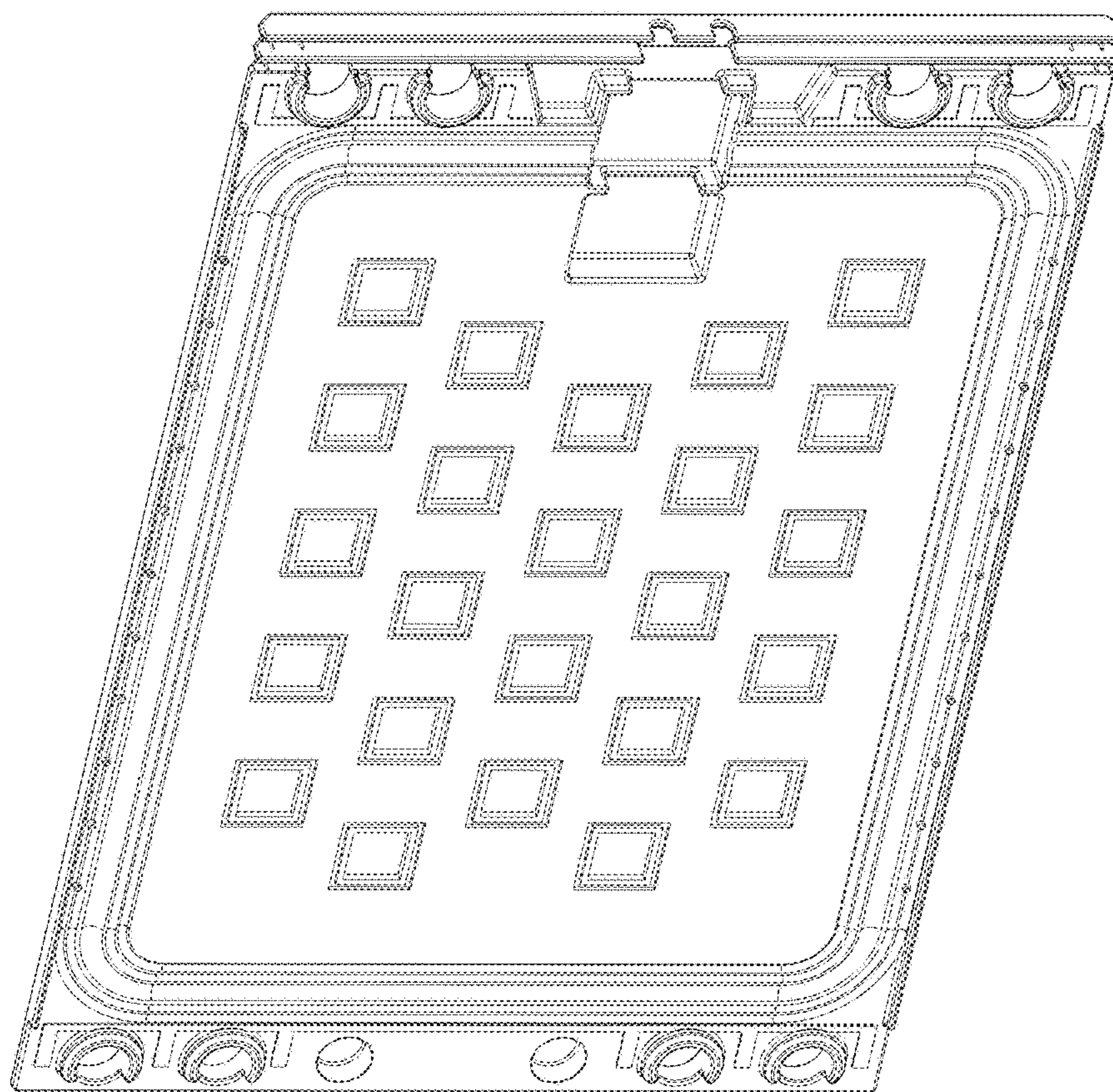


FIG.8