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

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- (54) **LEADFRAME**
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- (73) Assignee: **DIODES INCORPORATED**, Plano, TX (US)
- (\*) Notice: This patent is subject to a terminal disclaimer.
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/814,007**
- (22) Filed: **Nov. 2, 2021**

**Related U.S. Application Data**

- (60) Division of application No. 29/699,936, filed on Jul. 30, 2019, now Pat. No. Des. 940,090, which is a continuation-in-part of application No. 29/692,906, filed on May 29, 2019, now Pat. No. Des. 939,458.
- (51) **LOC (14) Cl.** ..... **13-03**
- (52) **U.S. Cl.**  
USPC ..... **D13/182**
- (58) **Field of Classification Search**  
USPC ..... D13/182  
CPC ..... H01L 23/49548; H01L 23/49541; H01L 24/09; H01L 24/48  
See application file for complete search history.

**References Cited**

**U.S. PATENT DOCUMENTS**

10,347,571	B1 *	7/2019	Rozbicki	.....	H01L 23/3121
D864,884	S *	10/2019	Yoneyama	.....	D13/182
D900,759	S *	11/2020	Majima	.....	D13/182
D906,273	S *	12/2020	Majima	.....	D13/182
D939,458	S *	12/2021	Huang	.....	D13/182
D940,090	S *	1/2022	Huang	.....	D13/182

2005/0258520	A1 *	11/2005	Dolan	.....	H01L 23/49503 257/E23.037
2009/0278241	A1 *	11/2009	Liu	.....	H01L 24/48 257/676
2015/0084172	A1 *	3/2015	Do	.....	H01L 24/96 257/676
2015/0200156	A1 *	7/2015	Weld	.....	H01L 23/49562 438/107
2015/0221584	A1 *	8/2015	Lopez	.....	H01L 24/40 257/676
2018/0130723	A1 *	5/2018	Lin	.....	H01L 23/49503
2018/0182642	A1 *	6/2018	Milo	.....	H01L 23/49548
2019/0198352	A1 *	6/2019	Nangia	.....	H01L 23/5223
2019/0355651	A1 *	11/2019	Milo	.....	H01L 23/49513
2020/0035586	A1 *	1/2020	Liong	.....	H01L 21/4828
2020/0194351	A1 *	6/2020	Talledo	.....	H01L 21/4828
2020/0194357	A1 *	6/2020	Shibuya	.....	H01L 24/17
2020/0211933	A1 *	7/2020	Raposas	.....	H01L 24/92

(Continued)

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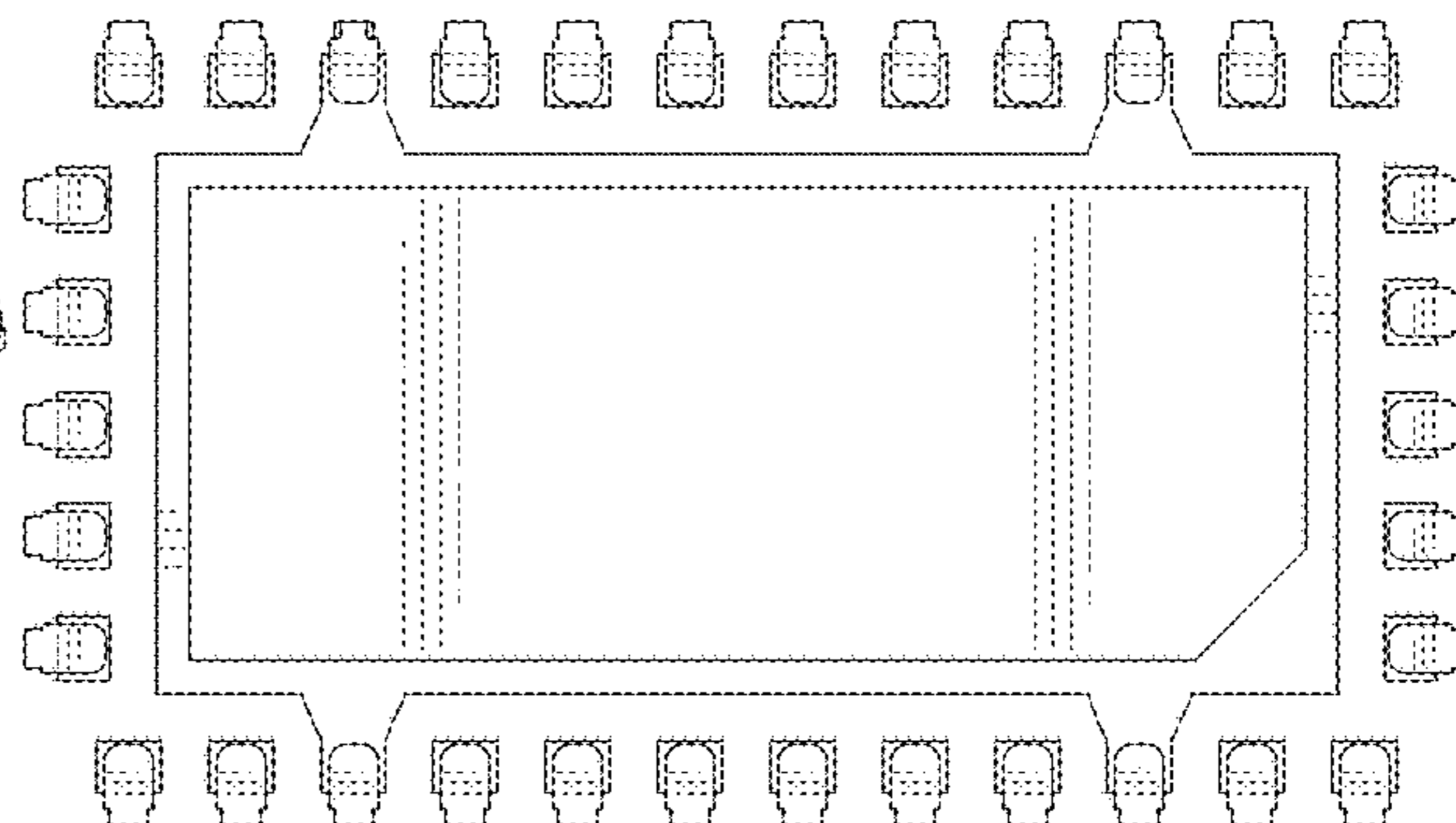
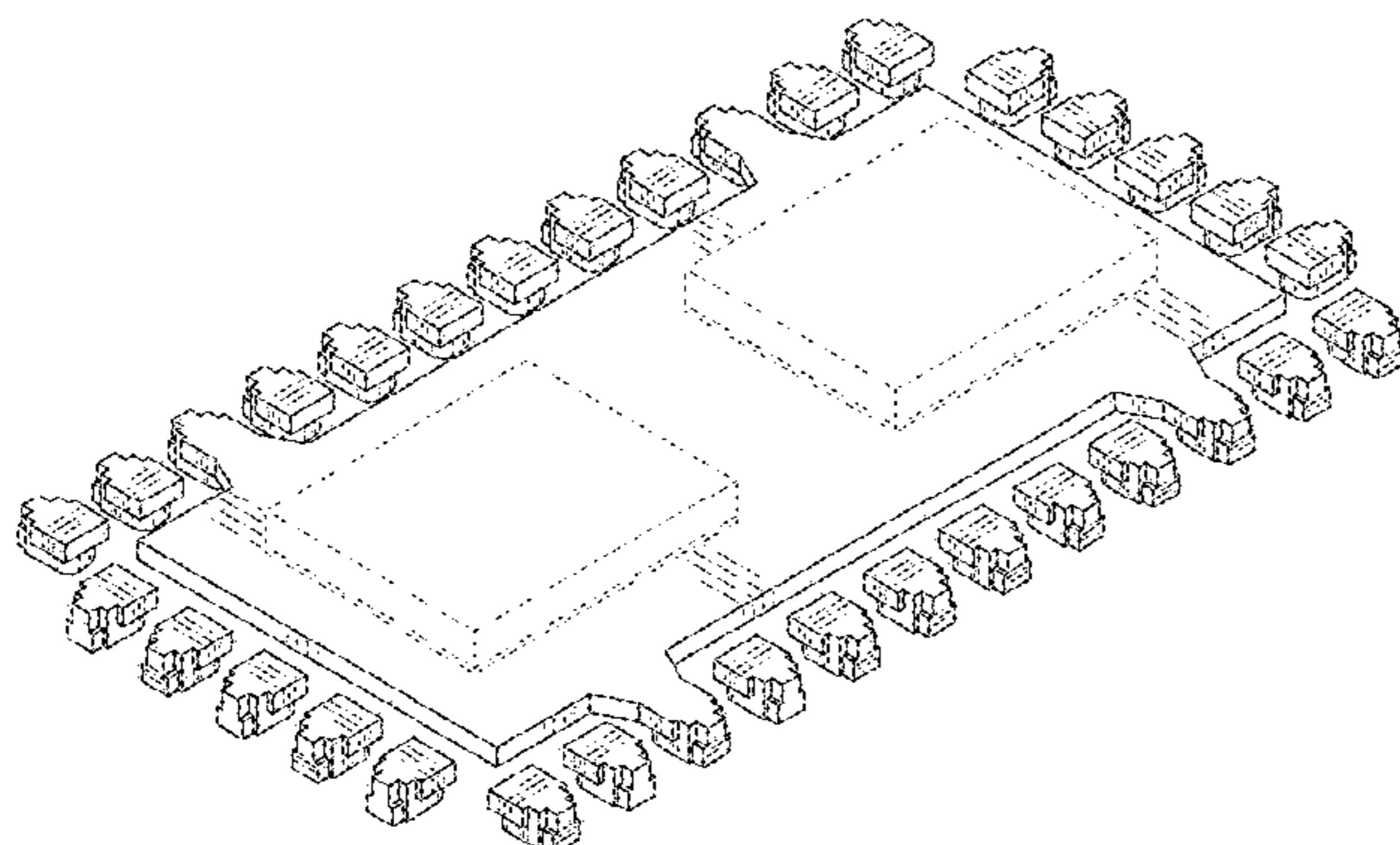
(57) **CLAIM**

The ornamental design for a leadframe, as shown and described.

**DESCRIPTION**

FIG. 1 is a top perspective view of a leadframe showing a second embodiment of our new design;  
 FIG. 2 is a top plan view thereof;  
 FIG. 3 is a bottom plan view thereof;  
 FIG. 4 is a front elevational view thereof, the rear elevational view being a mirror image thereof; and,  
 FIG. 5 is a right side elevational view thereof, the left side elevational view being a mirror image thereof.  
 The broken lines in the figures represent unclaimed subject matter and form no part of the claimed design.  
 The shade lines in the figures show contours and not surface ornamentation.

**1 Claim, 5 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2020/0258825 A1\* 8/2020 Tang ..... H01L 23/49562  
2020/0303609 A1\* 9/2020 Yoon ..... H01L 24/32  
2020/0312754 A1\* 10/2020 Yasuda ..... H01L 24/45  
2020/0312958 A1\* 10/2020 Murthy ..... H01L 29/456  
2020/0343168 A1\* 10/2020 Cadag ..... H01L 21/4828  
2020/0411421 A1\* 12/2020 Teyseyre ..... H01L 24/84  
2021/0020553 A1\* 1/2021 Macheiner ..... H01L 22/12  
2021/0090980 A1\* 3/2021 Noquil ..... H01L 23/3107  
2021/0225742 A1\* 7/2021 Jhan ..... H01L 23/49548  
2022/0020680 A1\* 1/2022 Huang ..... H01L 23/49586  
2022/0028767 A1\* 1/2022 Anjum ..... H01L 23/49805  
2022/0102248 A1\* 3/2022 Almagro ..... H01L 23/49562  
2022/0139812 A1\* 5/2022 Huang ..... H01L 24/48  
257/667

\* cited by examiner

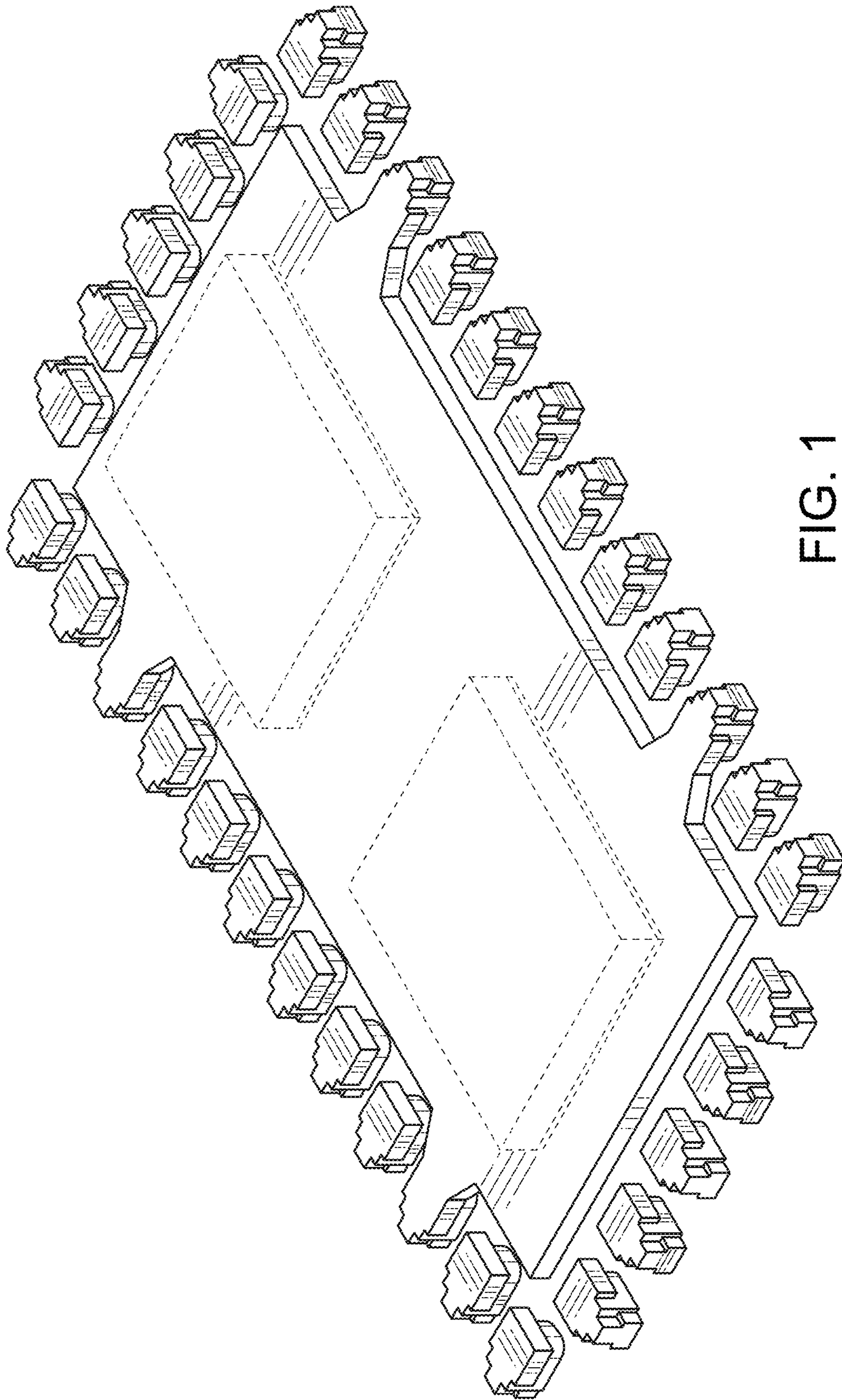


FIG. 1

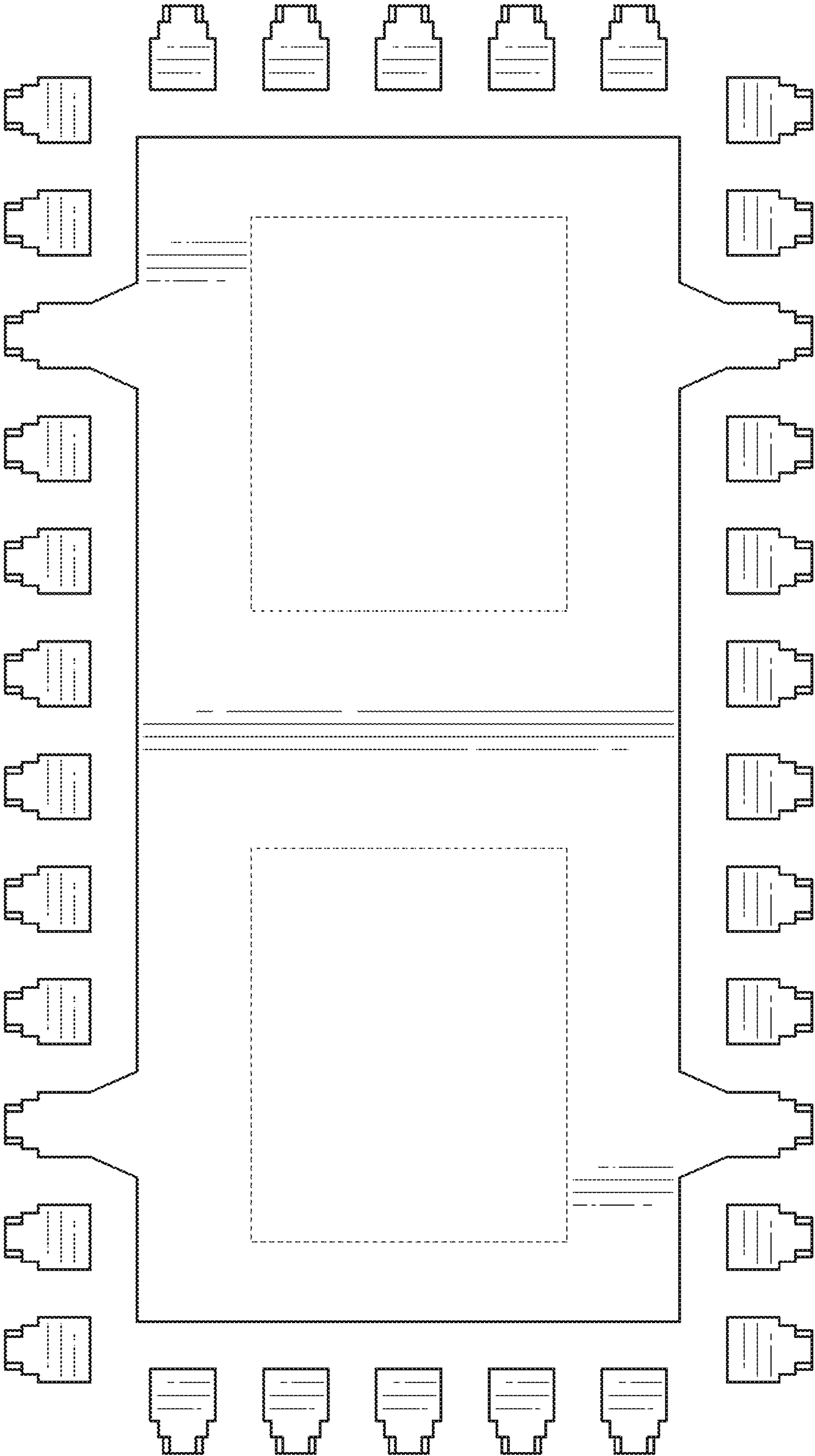


FIG. 2

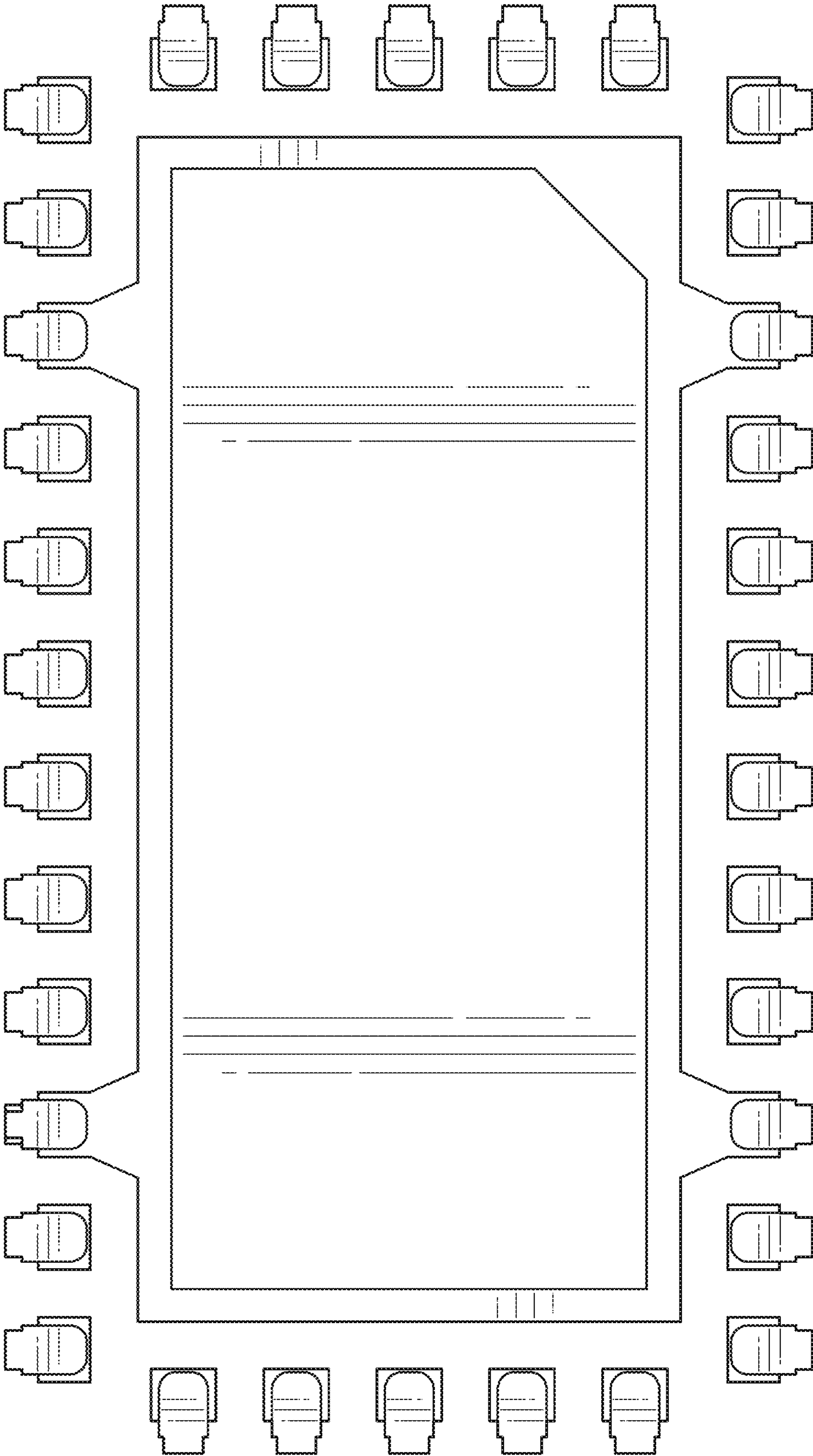


FIG. 3

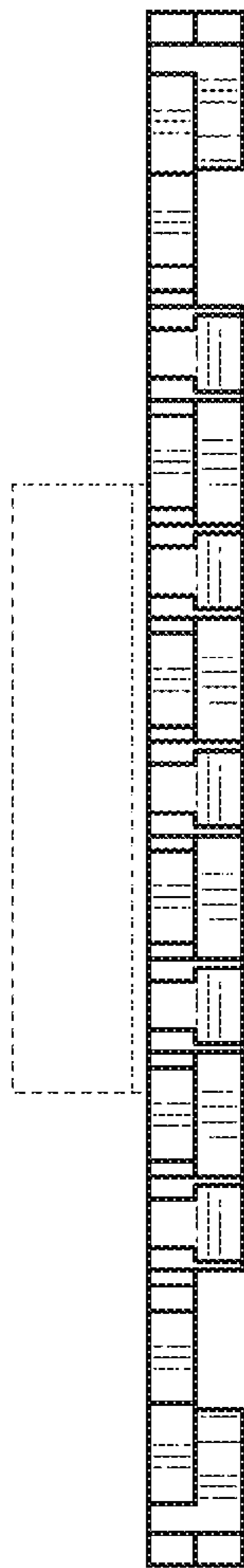


FIG. 4

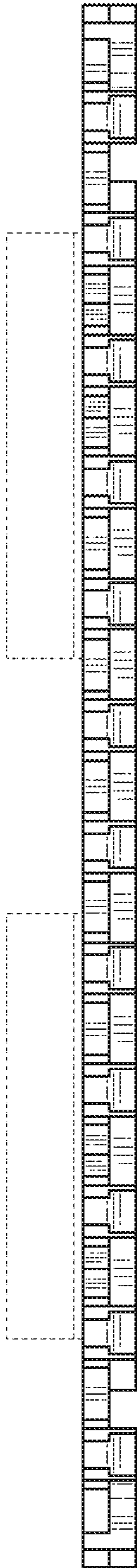


FIG. 5