



US00D978540S

(12) **United States Design Patent** (10) **Patent No.:** **US D978,540 S**  
**Yang** (45) **Date of Patent:** **\*\* Feb. 21, 2023**

(54) **DISPOSABLE TOILET BRUSH HEAD**

*Primary Examiner* — Austin Murphy

(71) Applicant: **Lin'an Thumb Cleaning Products Co., Ltd**, Zhejiang (CN)

(72) Inventor: **Xiaohua Yang**, Zhejiang (CN)

(73) Assignee: **Lin'an Thumb Cleaning Products Co., Ltd.**, Hangzhou (CN)

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

(21) Appl. No.: **29/698,051**

(22) Filed: **Jul. 12, 2019**

(30) **Foreign Application Priority Data**

Jul. 3, 2019 (CN) ..... 201930351012.2

(51) **LOC (14) Cl.** ..... **04-99**

(52) **U.S. Cl.**  
USPC ..... **D4/199**

(58) **Field of Classification Search**  
USPC ..... D4/128, 129, 131, 136, 138, 108, 109, D4/119, 199; D32/35, 51; D28/65; 401/205, 281, 286, 269, 129; D9/700, D9/715-722, 517, 414, 455  
CPC ..... A46B 7/026; A46B 5/005; A46B 17/04; A46B 2200/1046; A46B 5/0095  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D197,636 S *	3/1964	Frost	.....	D4/199
D247,949 S *	5/1978	Tillinghast	.....	D32/50
D249,821 S *	10/1978	Cooke	.....	D4/137
D287,539 S *	12/1986	Wilson	.....	D32/50
D731,137 S *	6/2015	Colangelo	.....	A47L 13/17
				D32/40
D789,028 S *	6/2017	Wynn	.....	D2/500
D943,854 S *	2/2022	Mathias	.....	D32/38
D948,148 S *	4/2022	Mathias	.....	D32/40
D953,044 S *	5/2022	Clayton	.....	D4/199

(Continued)

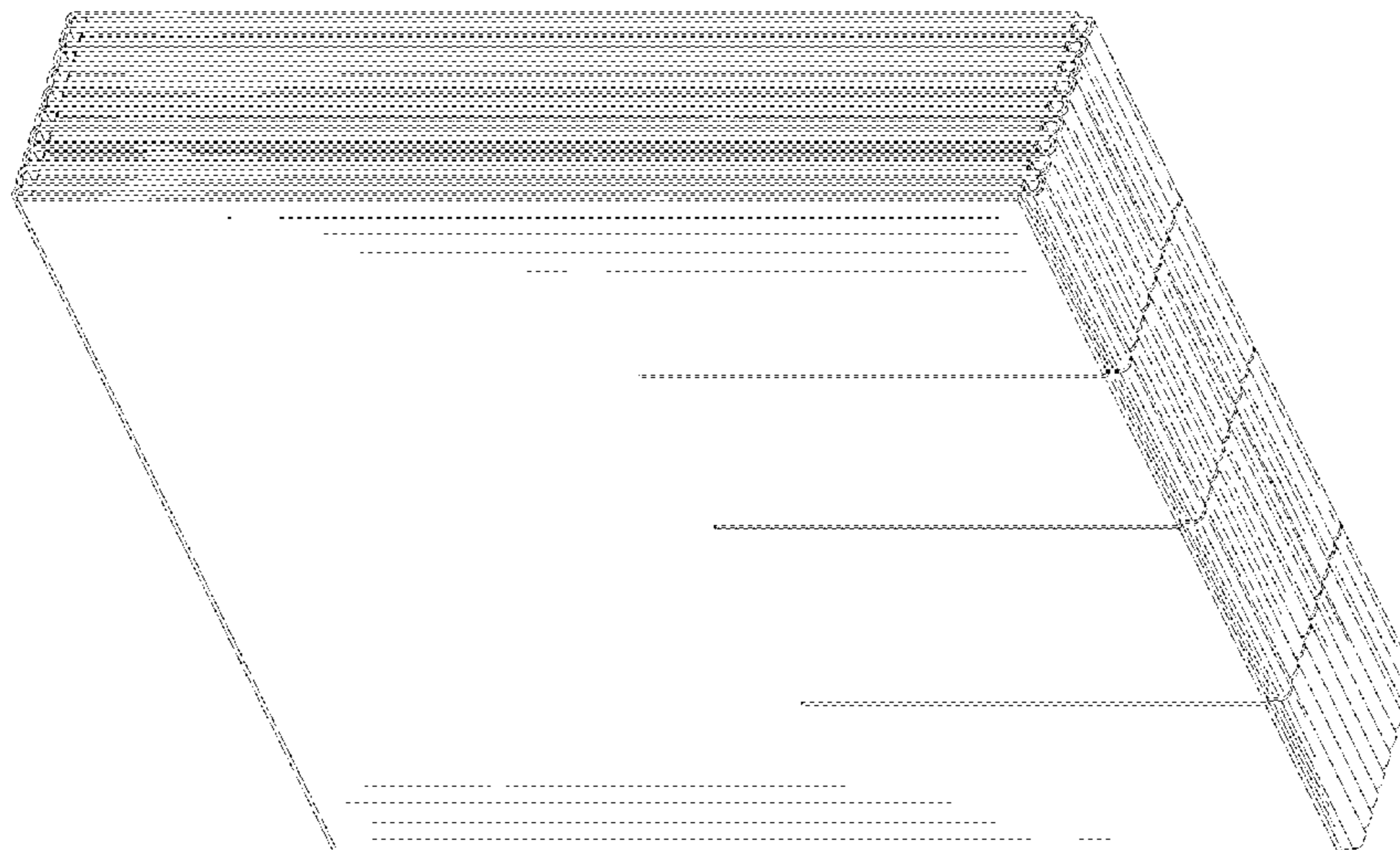
(57) **CLAIM**

The ornamental design for a disposable toilet brush head, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a disposable toilet brush head showing my new design;  
FIG. 2 is another perspective view thereof;  
FIG. 3 is a front elevation view thereof;  
FIG. 4 is a back elevation 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;  
FIG. 8 is a bottom plan view thereof;  
FIG. 9 is a perspective view of component 1;  
FIG. 10 is a front elevation view of component 1;  
FIG. 11 is a back elevation view of component 1;  
FIG. 12 is a left side view of component 1;  
FIG. 13 is a right side view of component 1;  
FIG. 14 is a top plan view of component 1;  
FIG. 15 is a bottom plan view of component 1;  
FIG. 16 is a perspective view of component 2;  
FIG. 17 is a front elevation view of component 2;  
FIG. 18 is a back elevation view of component 2;  
FIG. 19 is a left side view of component 2;  
FIG. 20 is a right side view of component 2;  
FIG. 21 is a top plan view of component 2;  
FIG. 22 is bottom plan view of component 2;  
FIG. 23 is a perspective view of component 3;  
FIG. 24 is a front elevation view of component 3;  
FIG. 25 is a back elevation view of component 3;  
FIG. 26 is a left side view of component 3;  
FIG. 27 is a right side view of component 3;  
FIG. 28 is a top plan view of component 3; and,  
FIG. 29 is a bottom plan view of component 3.

**1 Claim, 29 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2007/0006412 A1\* 1/2007 Soller ..... A47K 11/10  
15/210.1  
2008/0263797 A1\* 10/2008 Berger ..... B65D 65/46  
15/171

\* cited by examiner

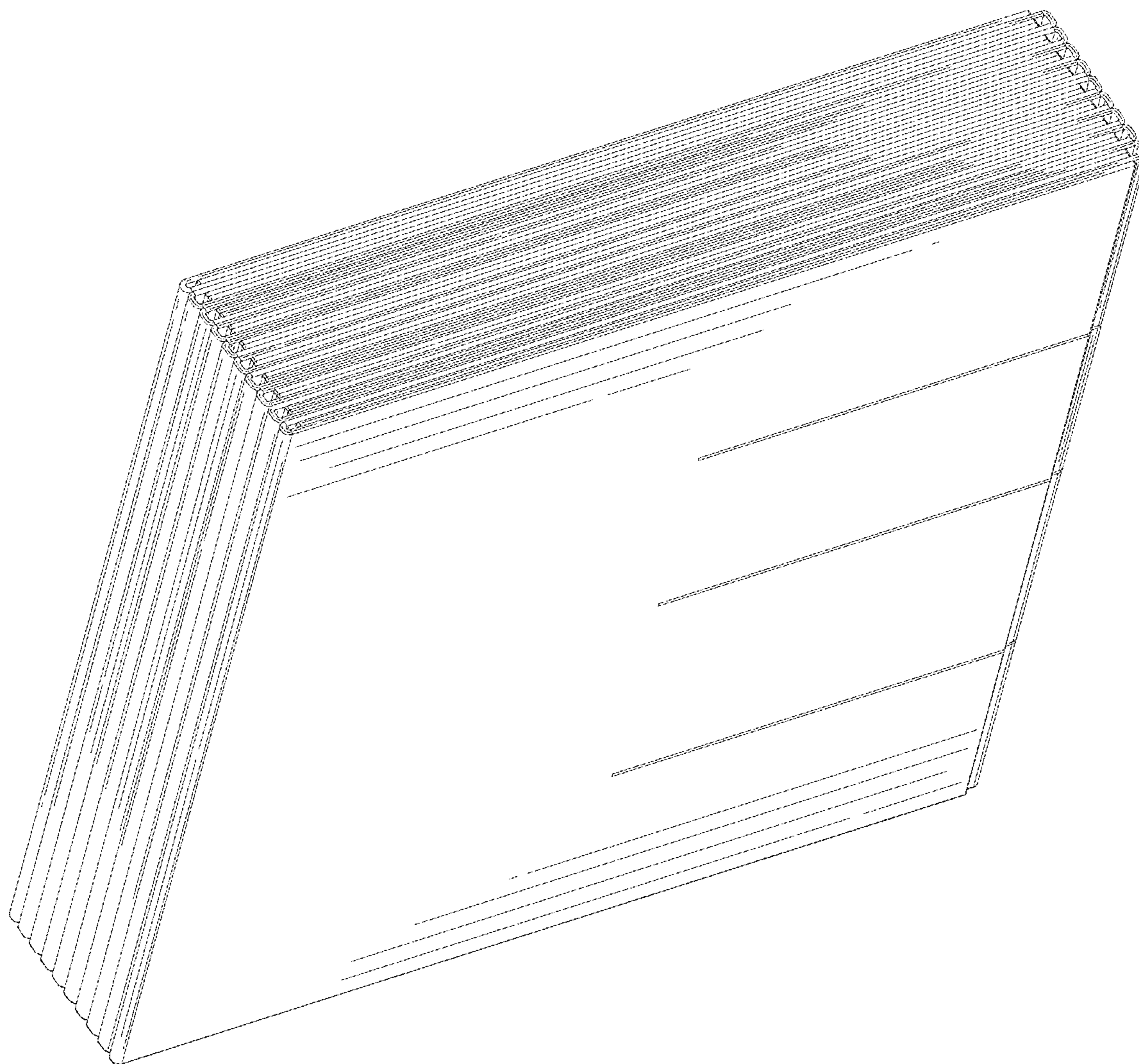


FIG. 1



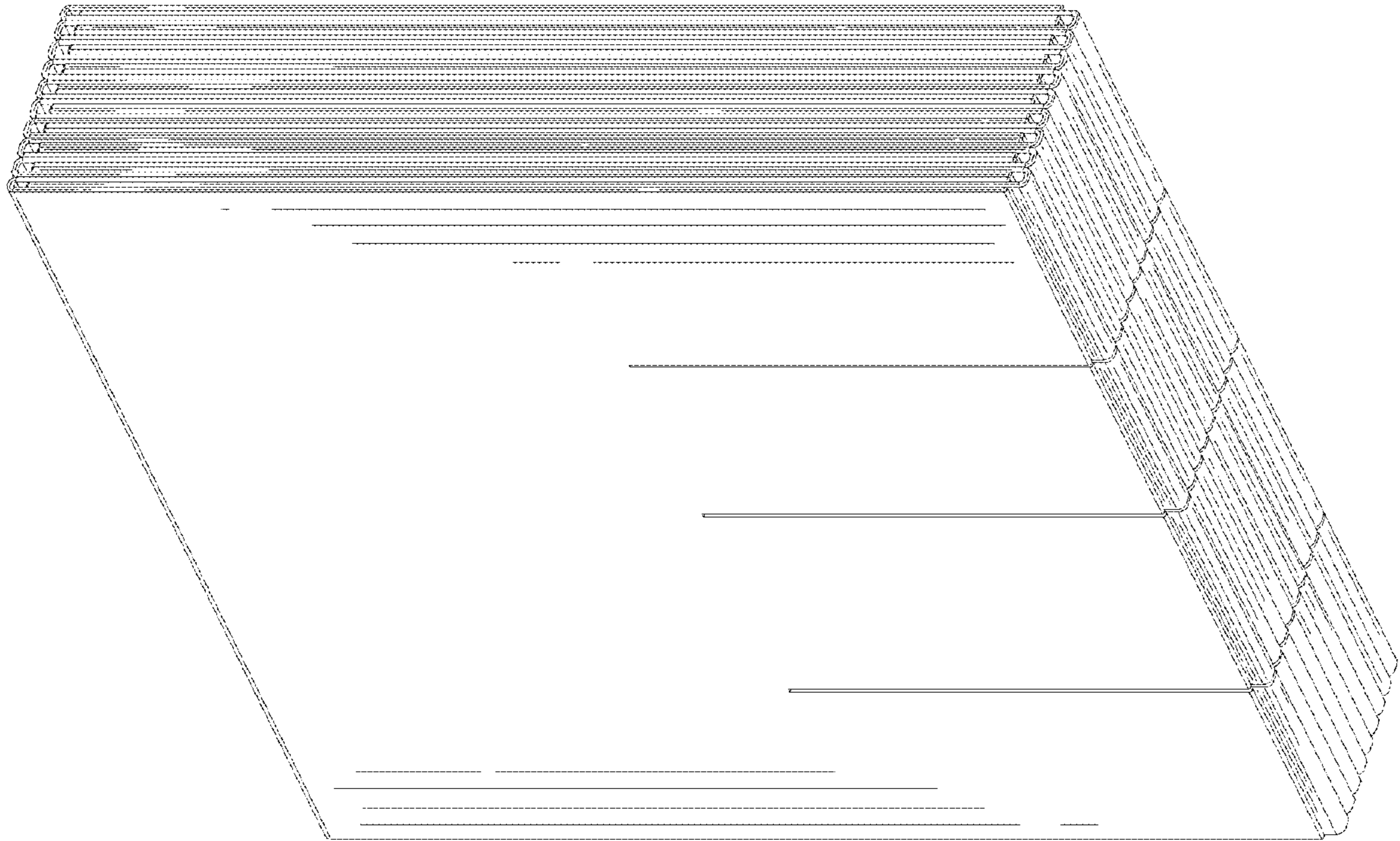


FIG. 2



FIG. 3

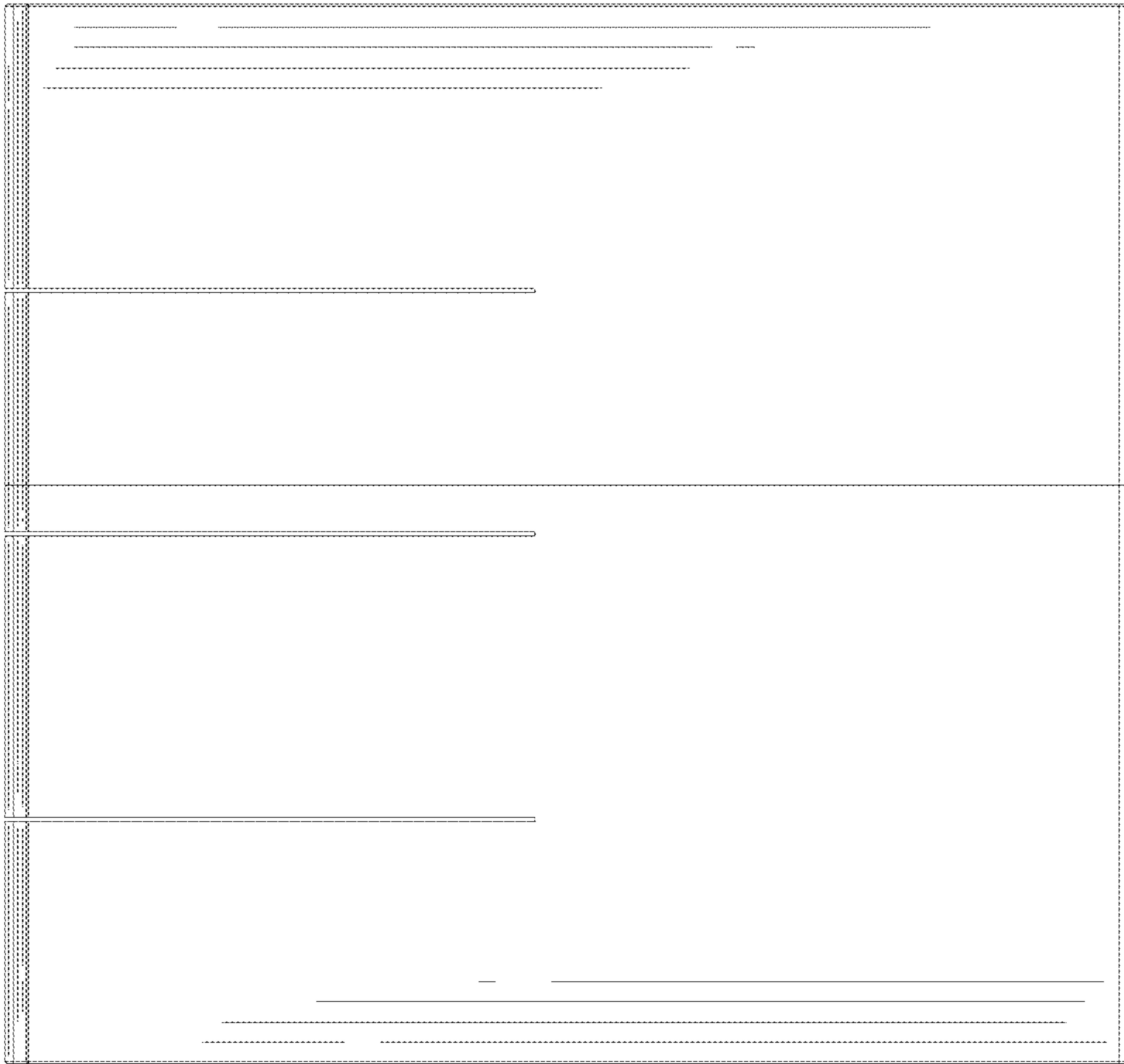


FIG. 4

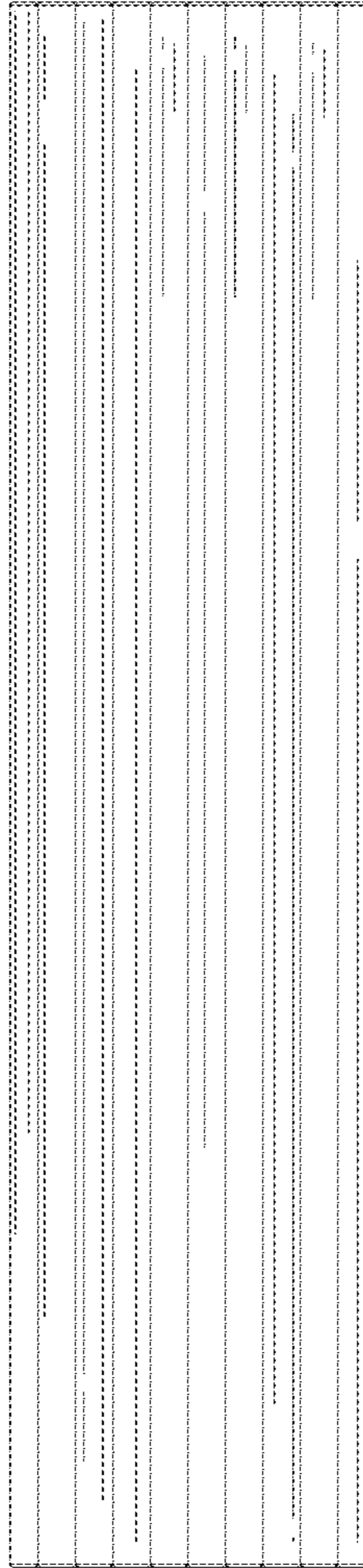


FIG. 5

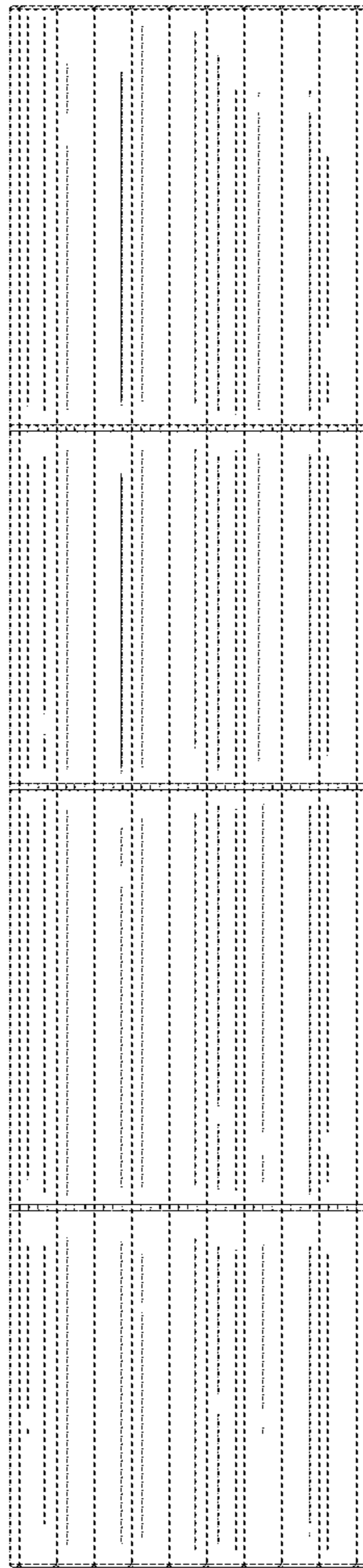


FIG. 6



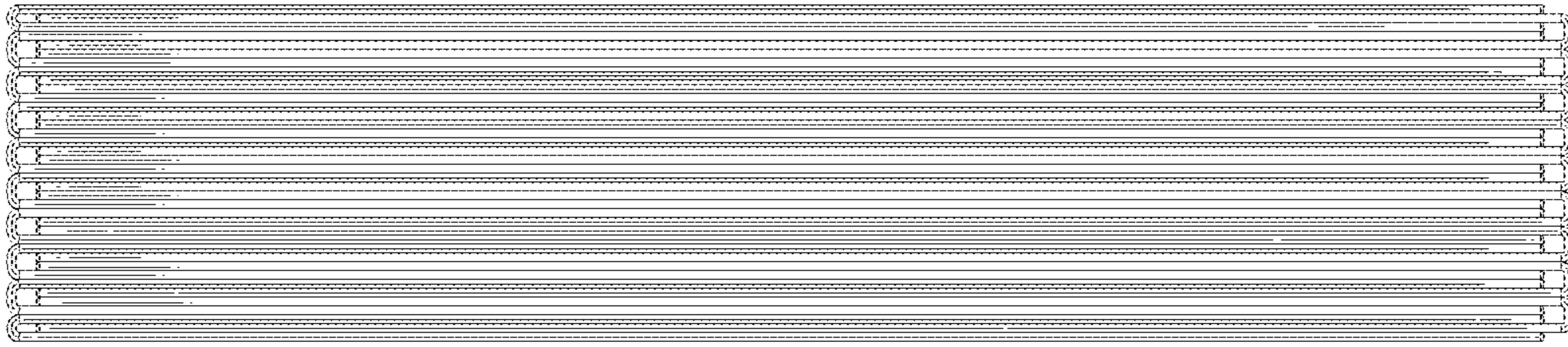


FIG. 7

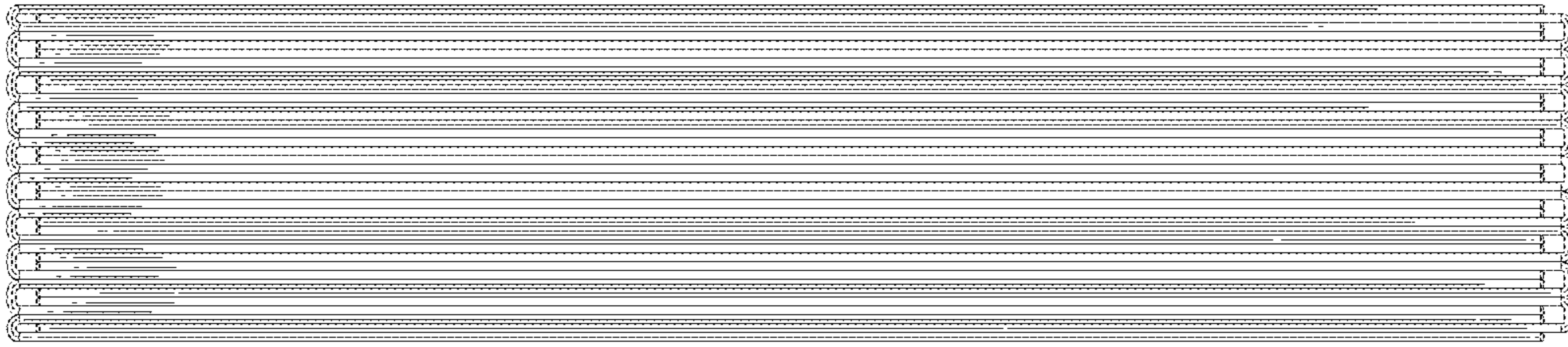


FIG. 8

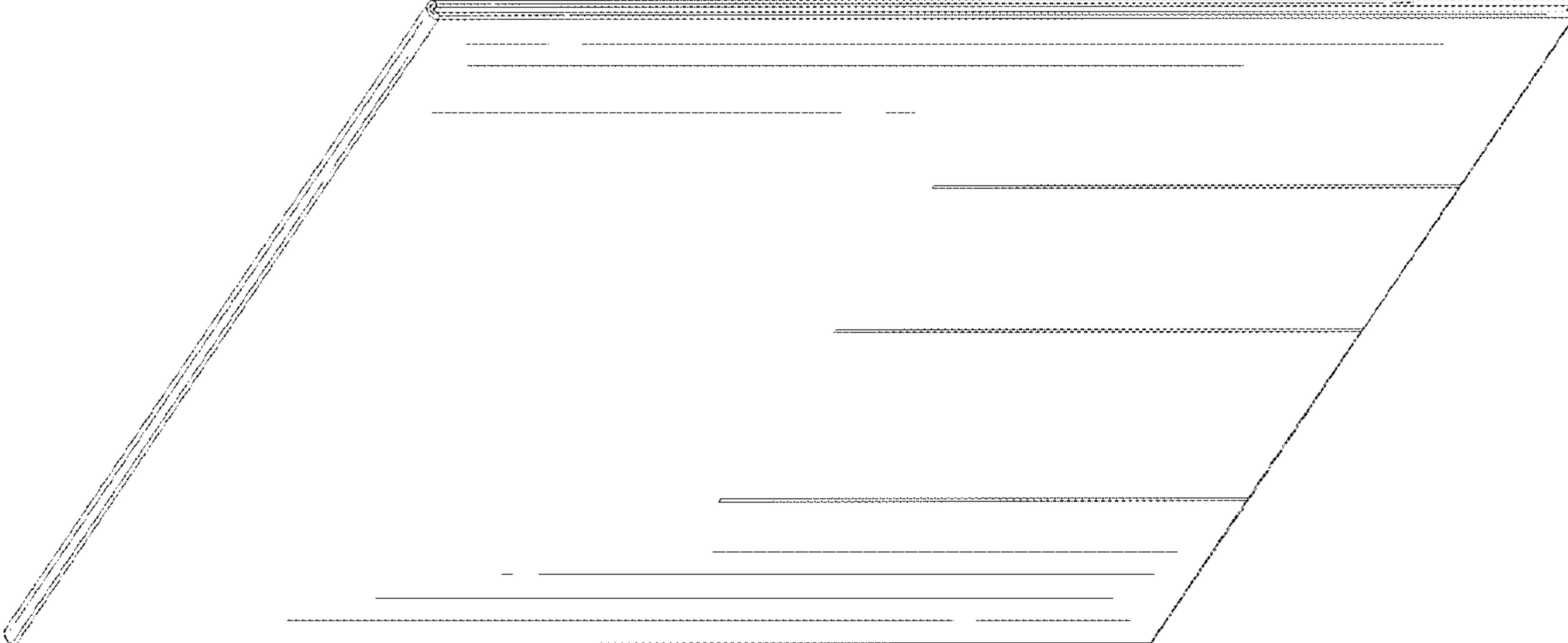


FIG. 9



FIG. 10



FIG. 11





FIG. 12

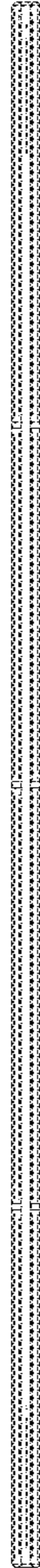


FIG. 13

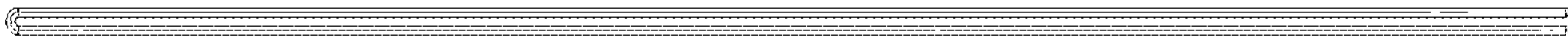


FIG. 14

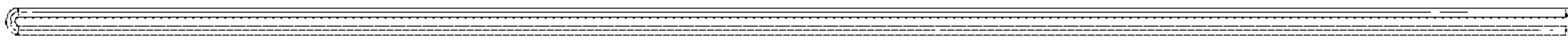


FIG. 15

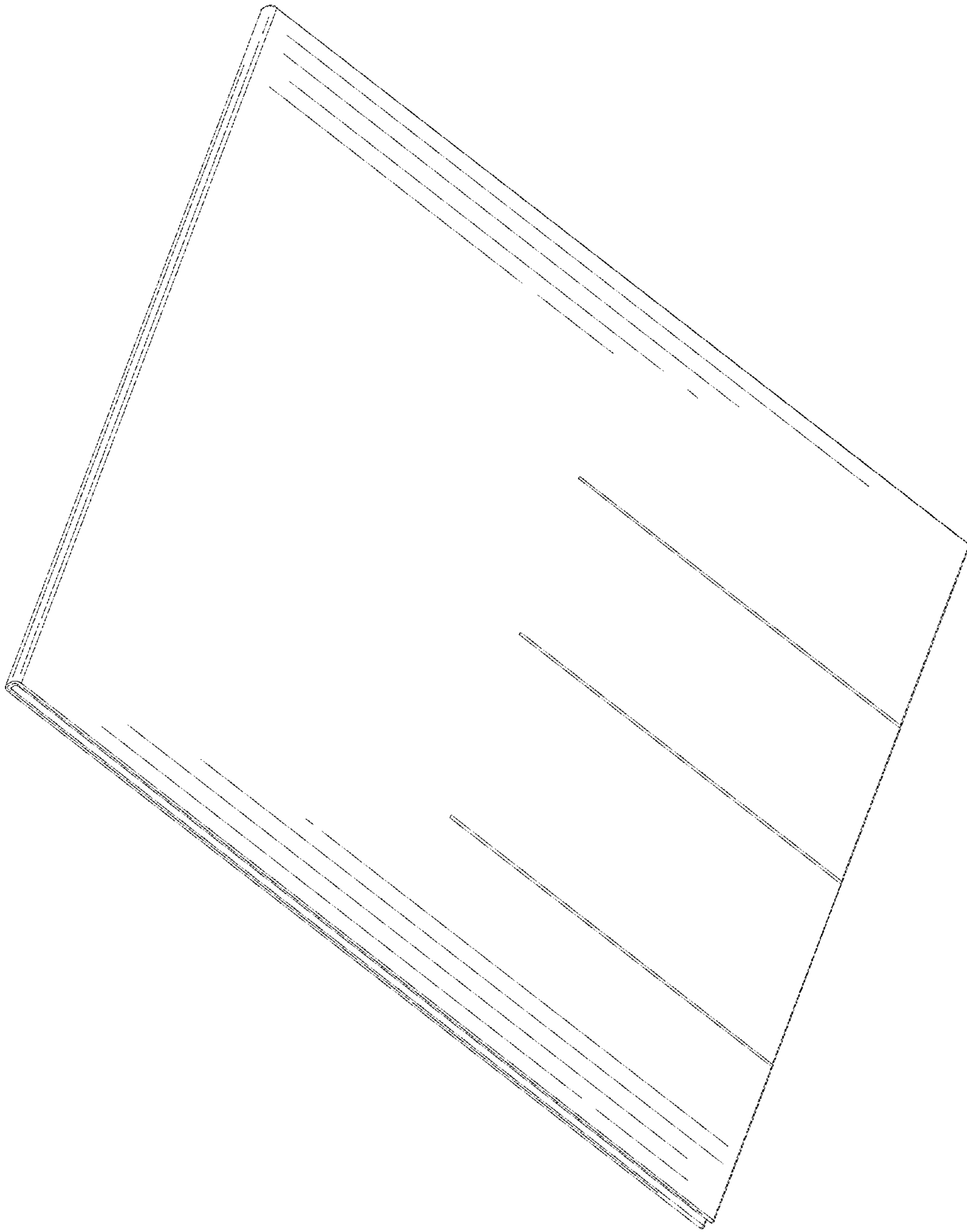


FIG. 16



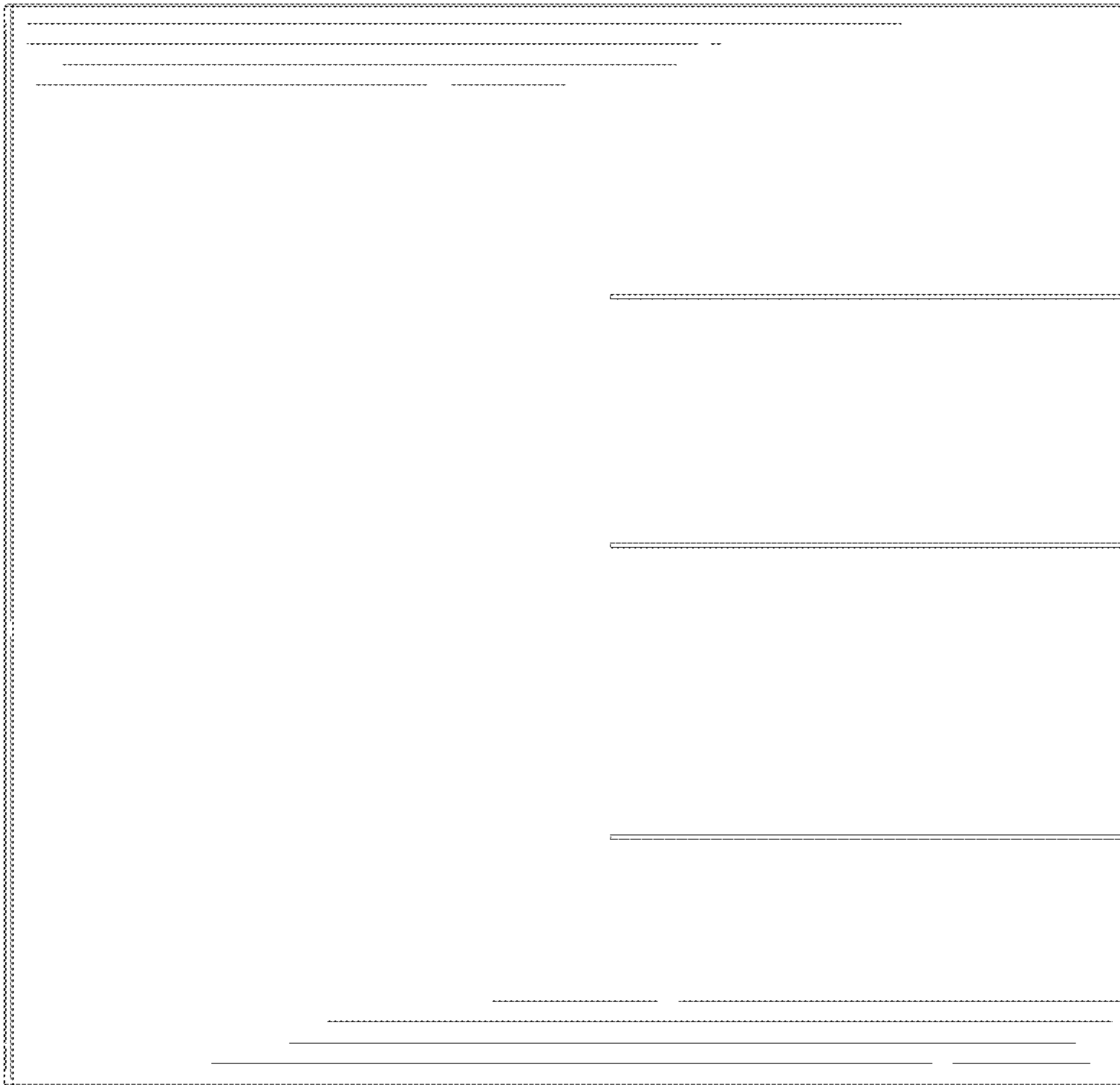


FIG. 17



FIG. 18

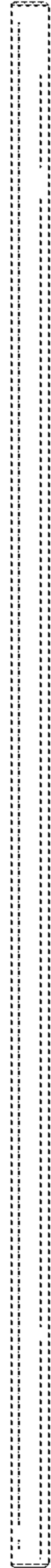


FIG. 19

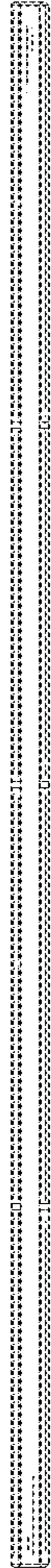


FIG. 20

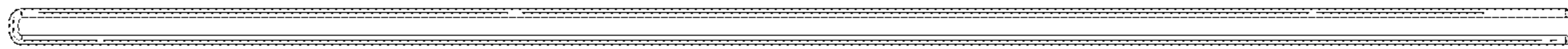


FIG. 21



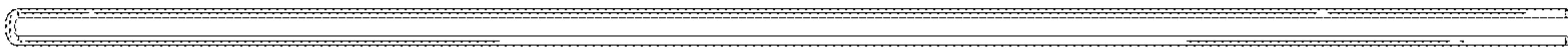


FIG. 22

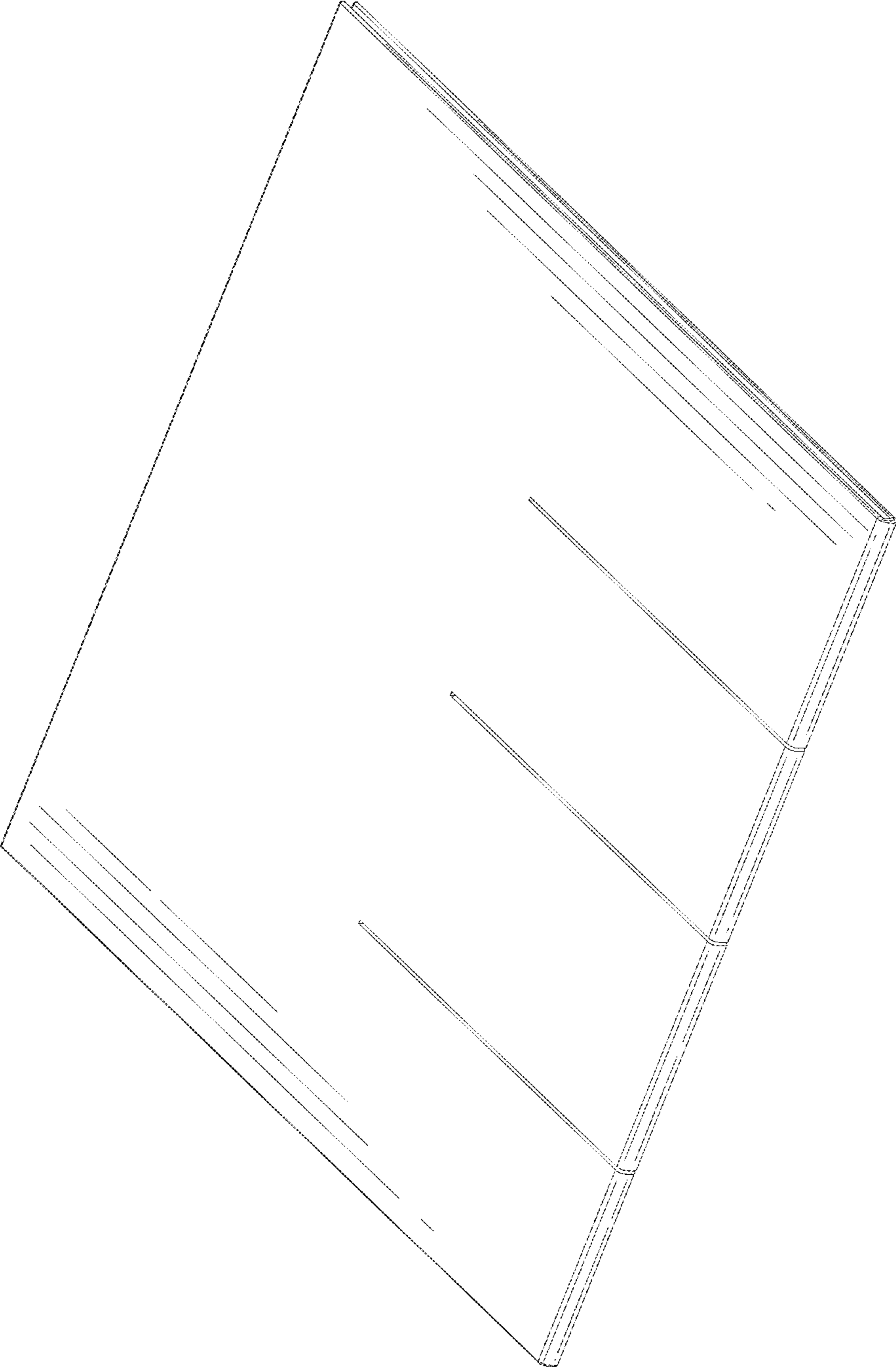


FIG. 23

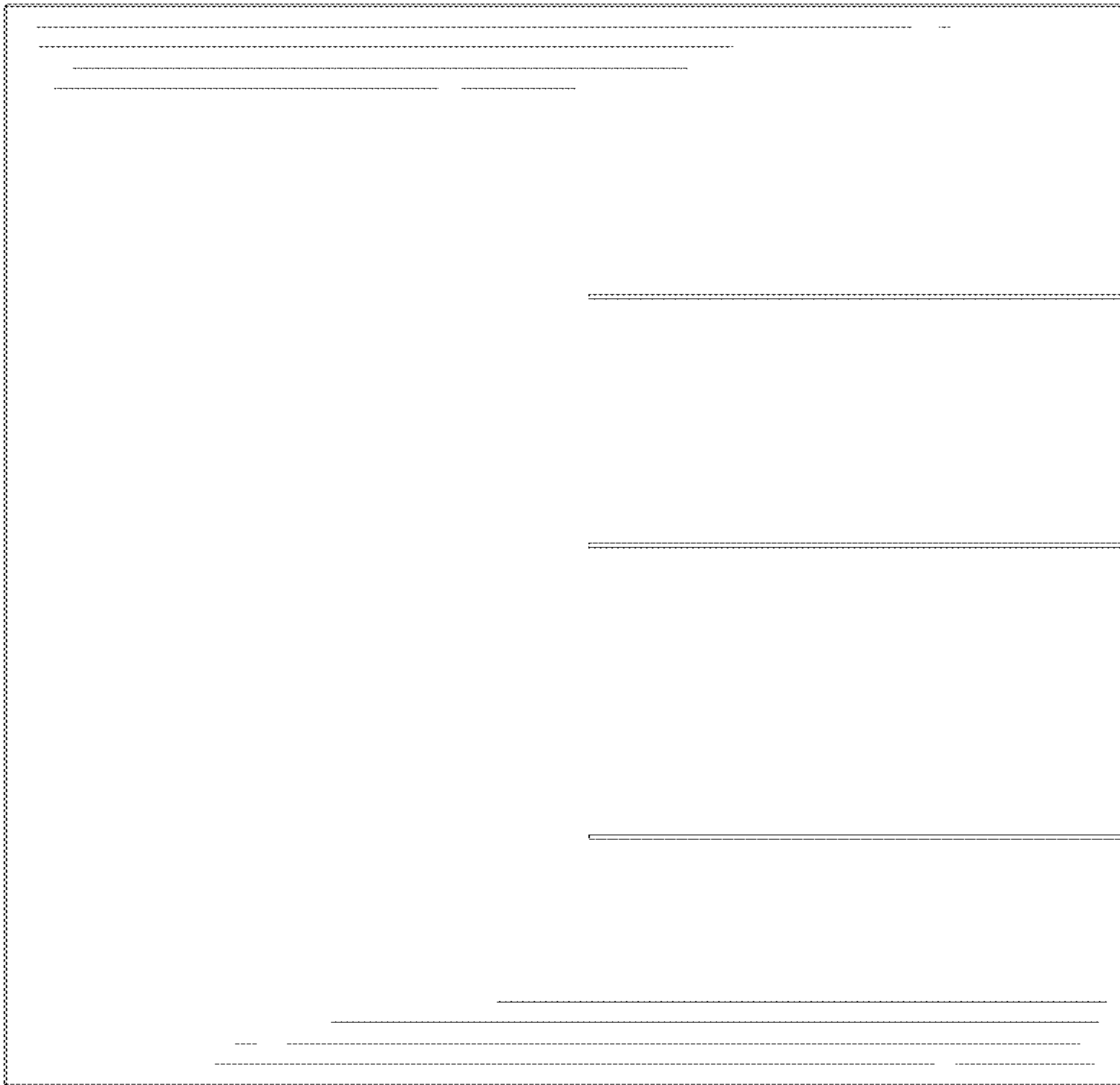


FIG. 24



FIG. 25



FIG. 26





FIG. 27

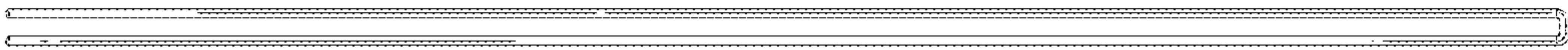


FIG. 28

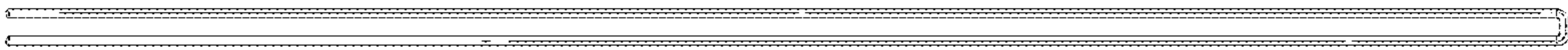


FIG. 29