



US00D731429S

(12) **United States Design Patent**  
**Chung**

(10) **Patent No.:** **US D731,429 S**  
(45) **Date of Patent:** **\*\* Jun. 9, 2015**

(54) **INSULATOR**

(56)

**References Cited**

(71) Applicant: **OMNI LPS. CO., LTD.**, Seoul (KR)

(72) Inventor: **Young-ki Chung**, Seoul (KR)

(73) Assignee: **OMNI LPS. CO., LTD.**, Seoul (KR)

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (10) Cl.** ..... **13-03**

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

USPC ..... **D13/132**

(58) **Field of Classification Search**

USPC ..... D13/129-132, 184, 199; D10/105;  
D8/364; 361/126; 29/825; 338/21;  
174/137 R

CPC ..... H01B 17/00; H01B 17/14; H01B 17/145;  
H01B 3/00; H01B 17/06; H01R 43/00;  
H01R 4/70; H02H 1/04

See application file for complete search history.

U.S. PATENT DOCUMENTS

D86,455	S	*	3/1932	Heinrich	.....	D13/199
D187,073	S	*	1/1960	Brandt et al.	.....	D13/133
D201,133	S	*	5/1965	Vose	.....	D13/131
D219,332	S	*	12/1970	Lewis et al.	.....	D8/364
4,973,798	A	*	11/1990	Parraud et al.	.....	174/176
D360,399	S	*	7/1995	Tillery et al.	.....	D13/132
2007/0242413	A1	*	10/2007	Drugge et al.	.....	361/301.3
2010/0053837	A1	*	3/2010	Johansson	.....	361/126
2014/0246222	A1	*	9/2014	Juengst	.....	174/25 G

\* cited by examiner

*Primary Examiner* — Thomas Johannes

*Assistant Examiner* — Shawn T Gingrich

(74) *Attorney, Agent, or Firm* — Li & Cai Intellectual Property (USA) Office

(57)

**CLAIM**

The ornamental design for an insulator, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of an insulator showing my new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left side view thereof;

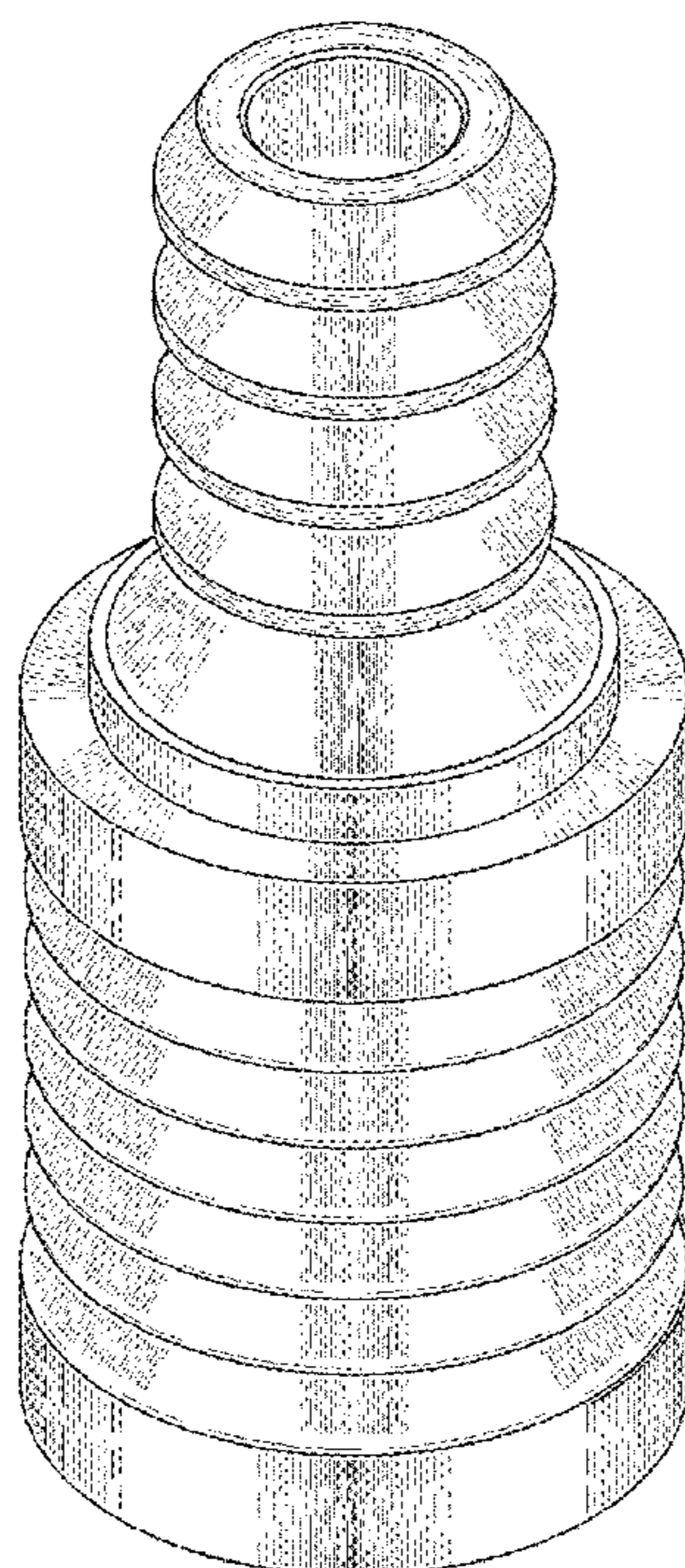
FIG. 5 is a right side view thereof;

FIG. 6 is a top view thereof;

FIG. 7 is a bottom view thereof; and,

FIG. 8 is a sectional view thereof taken in the direction of line 8-8 of FIG. 6.

**1 Claim, 7 Drawing Sheets**



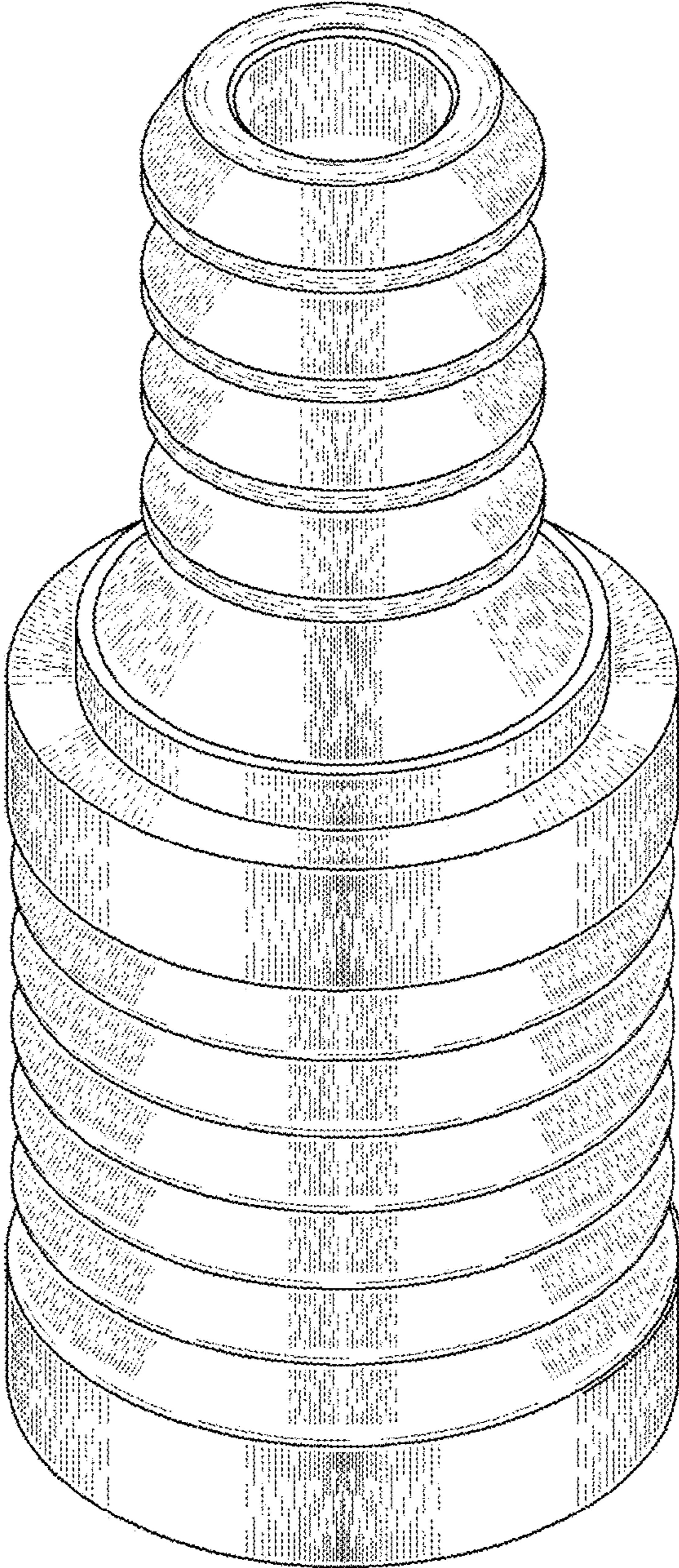


FIG. 1

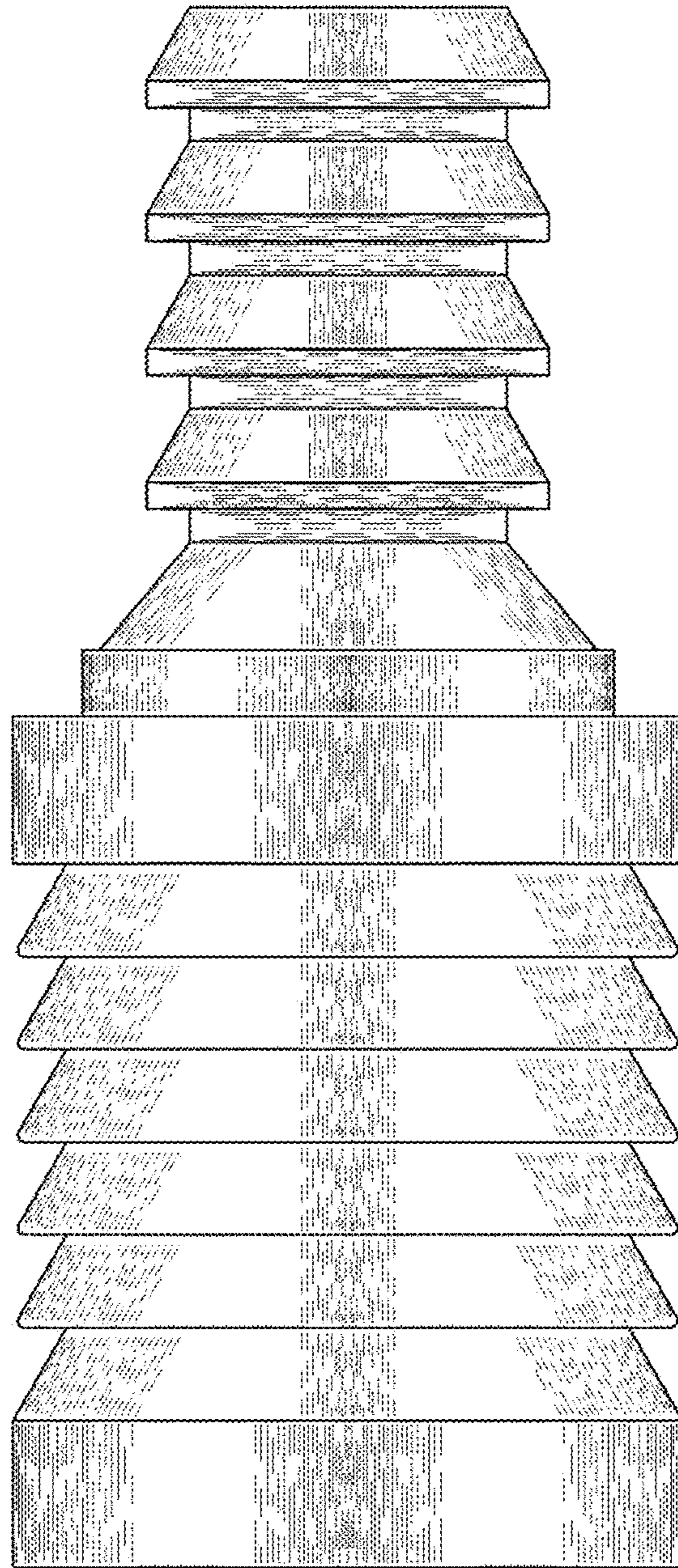


FIG. 2

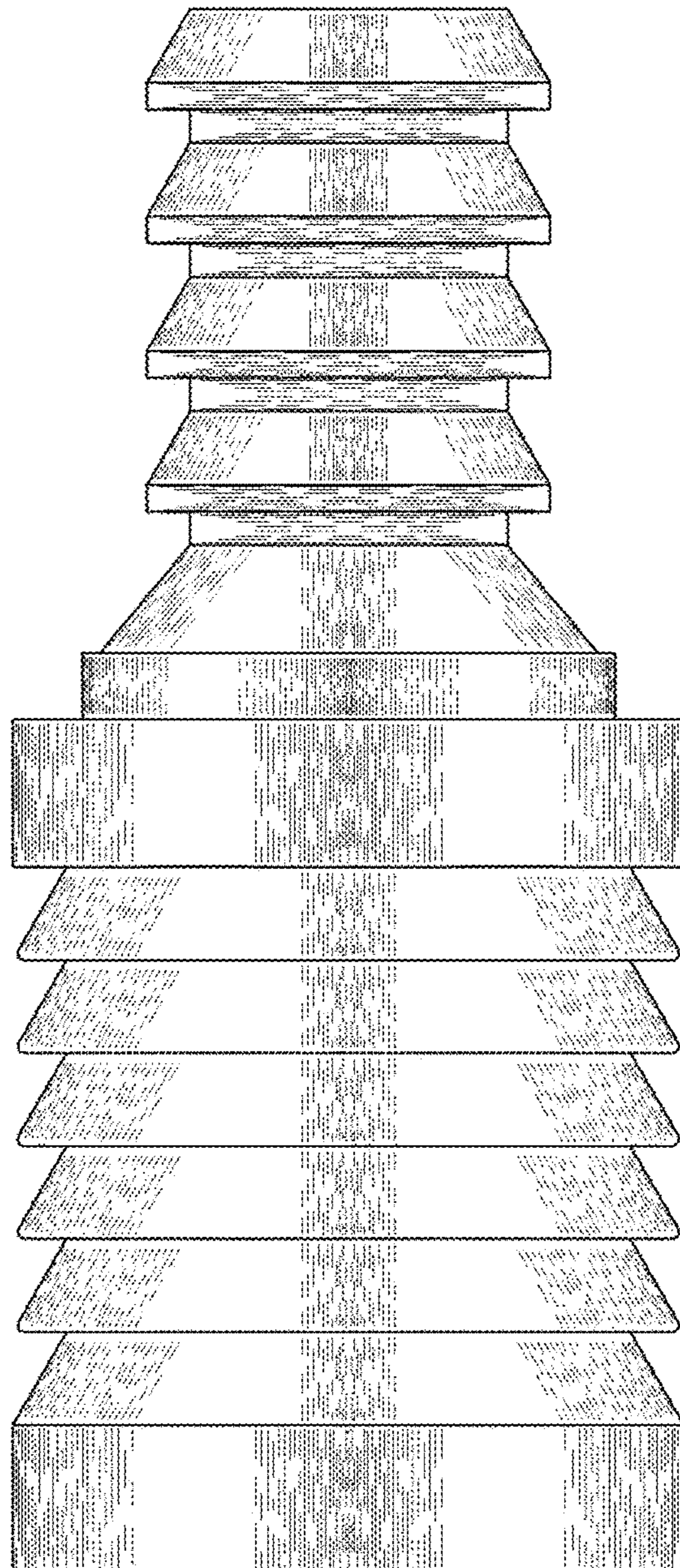


FIG. 3

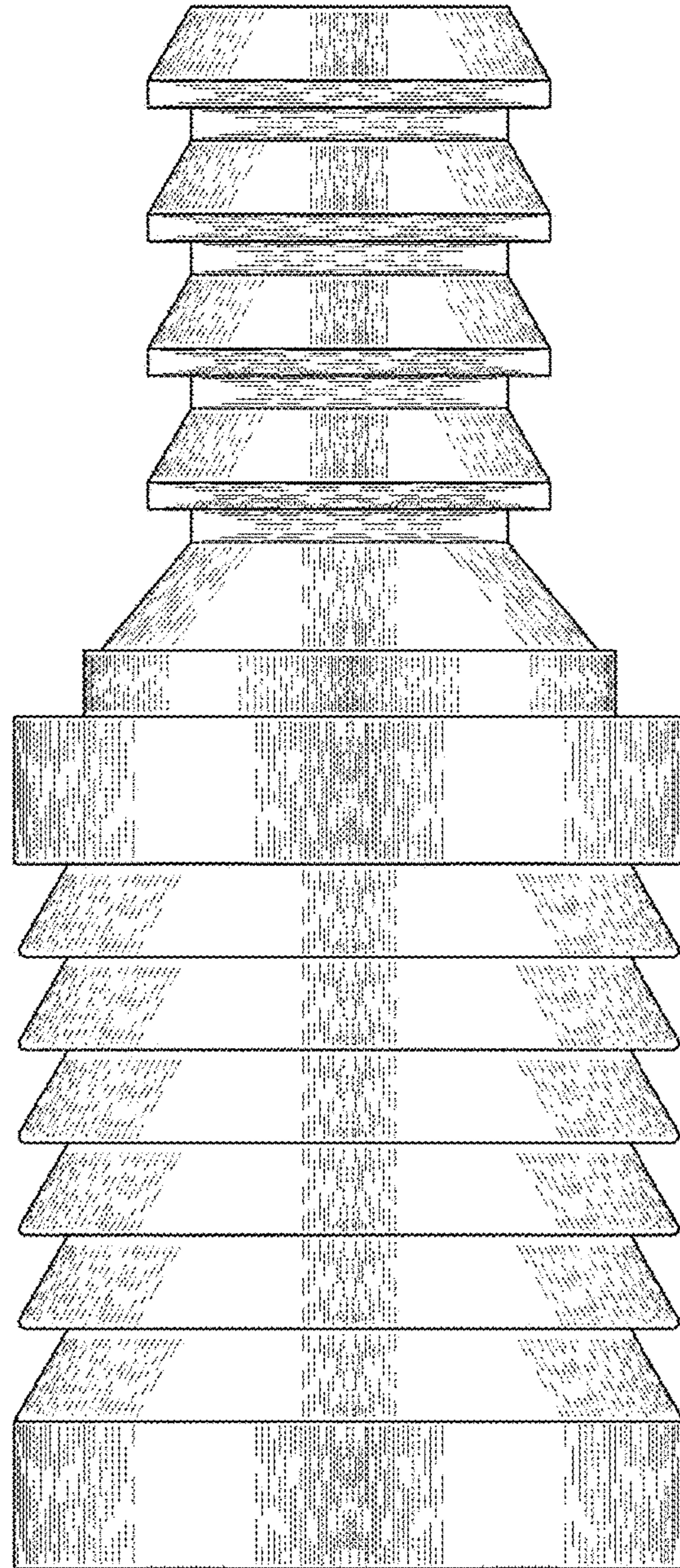


FIG. 4

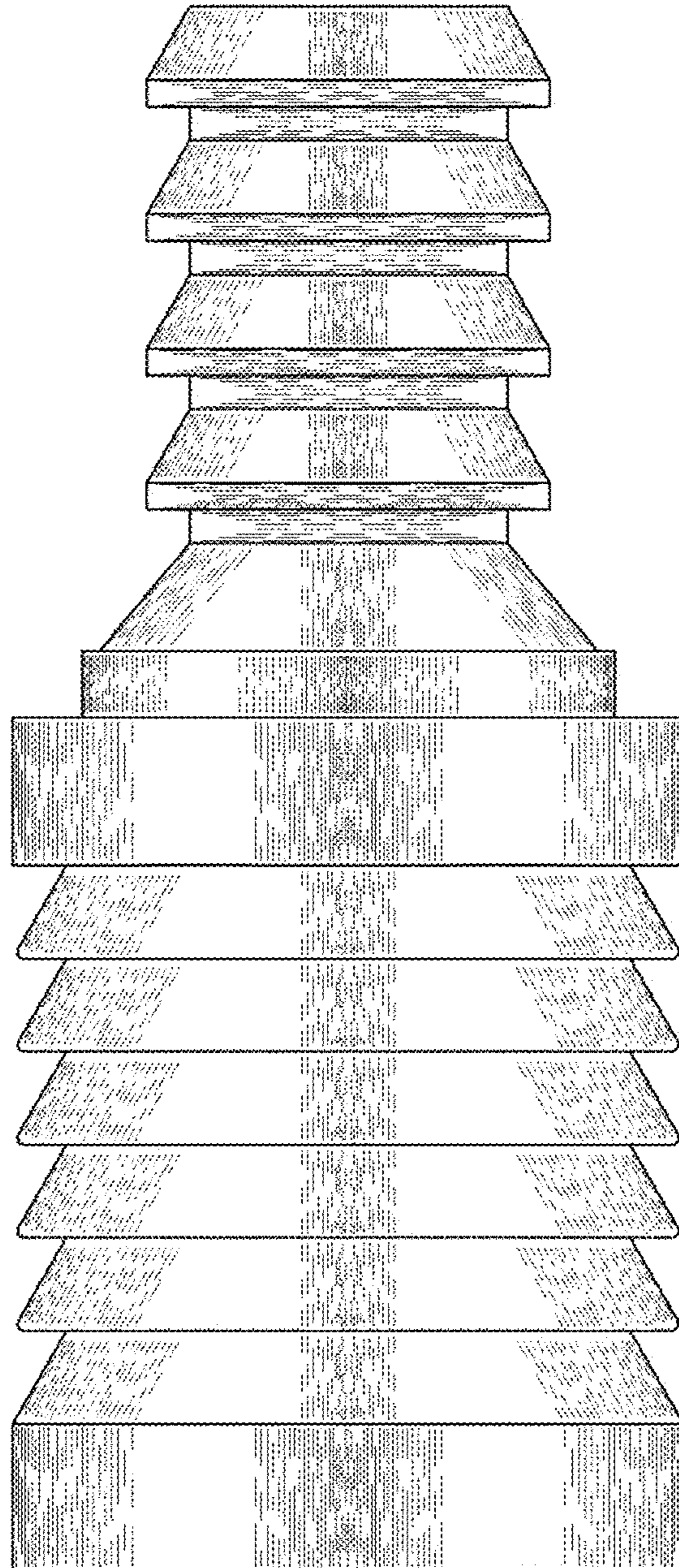
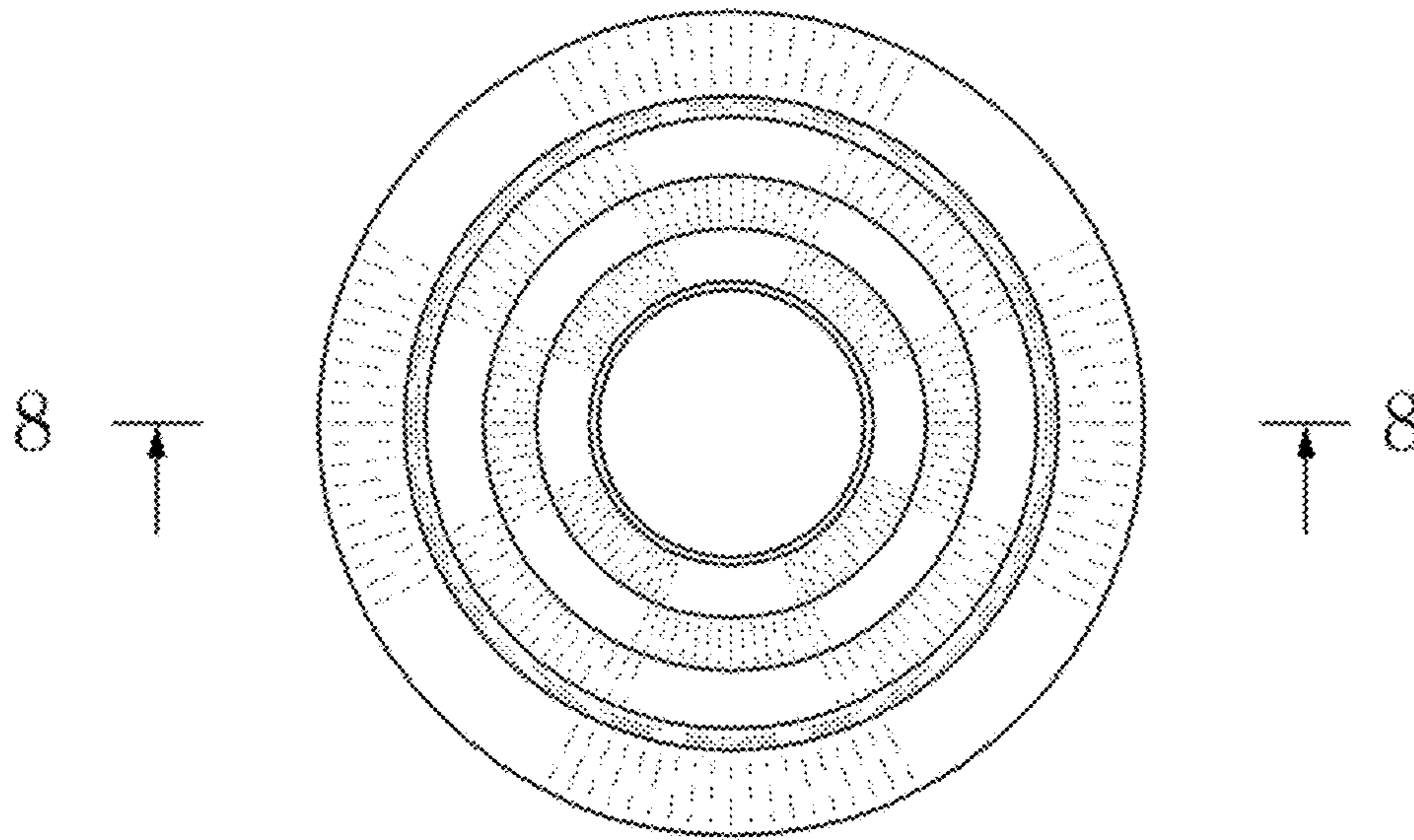
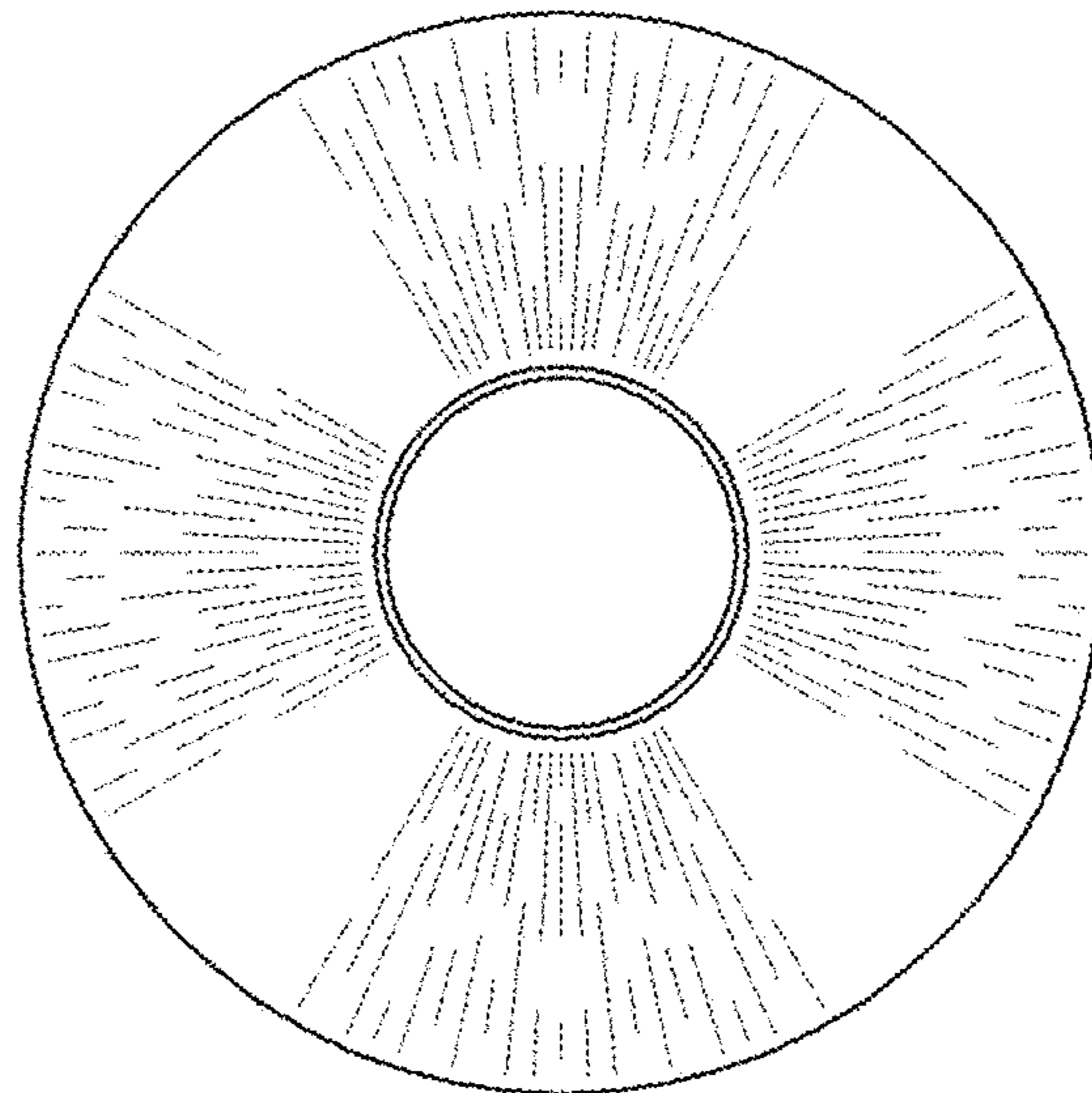


FIG. 5



**FIG. 6**



**FIG. 7**

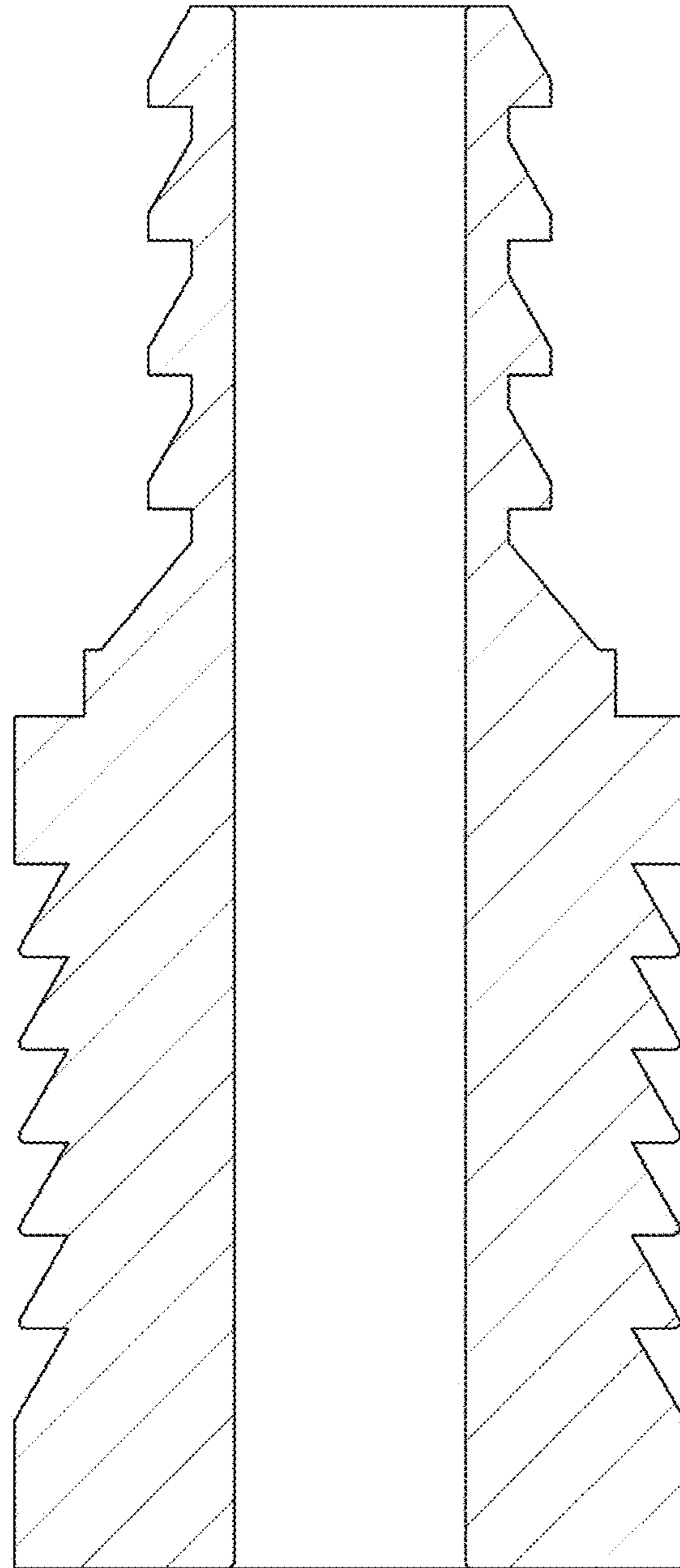


FIG. 8