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Miyairi et al.

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(54) **LIGHT EMITTING DIODE LENS**

(56) **References Cited**

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

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(51) **LOC (9) Cl.** **26-99**

(52) **U.S. Cl.** **D26/120**

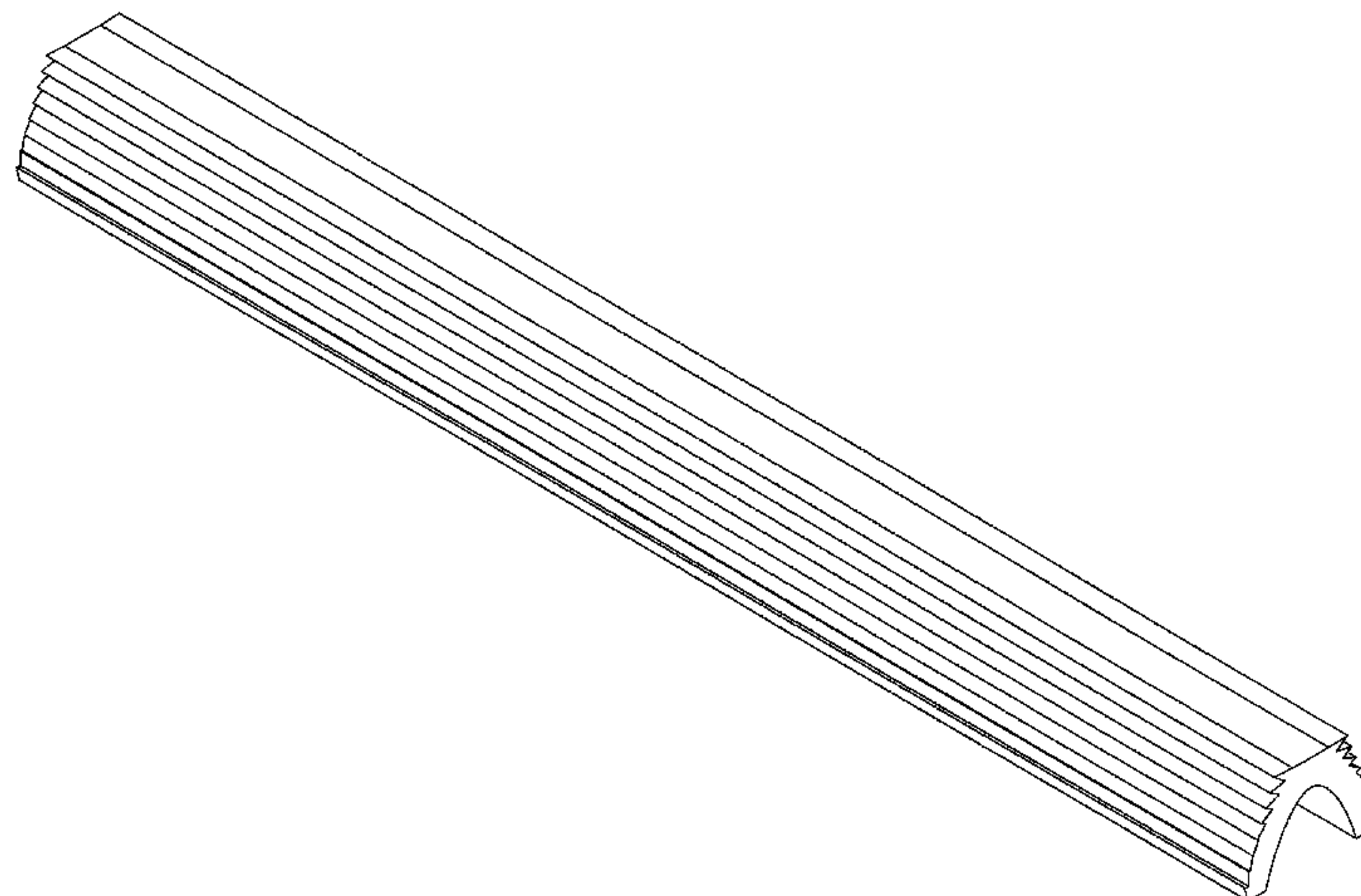
(58) **Field of Classification Search** D26/2,
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362/544, 240, 545; D9/529; D21/478, 479;
D34/1; D7/509, 586; D13/134, 179, 180

See application file for complete search history.

U.S. PATENT DOCUMENTS

1,941,079	A *	12/1933	Exelmans	.....	362/224
2,277,433	A *	3/1942	Guth	.....	362/356
D132,296	S	5/1942	Hoeveler		
2,356,654	A *	8/1944	Cullman	.....	362/223
D201,986	S *	8/1965	Wince	.....	D26/122
3,483,366	A	12/1969	Wince		
D218,062	S *	7/1970	Magi	.....	D26/122
3,737,654	A	6/1973	Hawley		
D259,738	S	6/1981	Boschetti		
D314,637	S	2/1991	Holcomb		
D316,613	S *	4/1991	Stein	.....	D26/122
D345,316	S	3/1994	Green et al.		
5,390,094	A	2/1995	Evanisko		
D356,382	S	3/1995	Jaksich		
5,526,190	A	6/1996	Hubble, III et al.		
D374,737	S	10/1996	Can		
D384,178	S *	9/1997	Costa	.....	D26/76
D401,000	S	11/1998	Herst		
5,848,837	A	12/1998	Gustafson		
D414,580	S	9/1999	Herst		
6,007,226	A	12/1999	Howard		
6,193,394	B1	2/2001	Herst et al.		
6,561,690	B2 *	5/2003	Balestrierio et al.	.....	362/555
D476,753	S	7/2003	Chelf et al.		
6,676,284	B1	1/2004	Wynne Willson		
D494,307	S	8/2004	Yu et al.		
D499,834	S	12/2004	Yu et al.		
D499,976	S	12/2004	Neufeglise et al.		
6,850,001	B2	2/2005	Takekuma		
6,851,832	B2	2/2005	Tieszen		
6,971,767	B2 *	12/2005	Agabekov et al.	.....	362/236
7,159,997	B2 *	1/2007	Reo et al.	.....	362/240
7,244,058	B2 *	7/2007	DiPenti et al.	.....	362/547
7,387,399	B2 *	6/2008	Noh et al.	.....	362/97.1
D577,852	S *	9/2008	Miyairi et al.	.....	D26/120
7,422,347	B2 *	9/2008	Miyairi et al.	.....	362/335
7,604,376	B2 *	10/2009	Sloan et al.	.....	362/246
D606,501	S *	12/2009	Plonski et al.	.....	D13/179
2006/0198144	A1 *	9/2006	Miyairi et al.	.....	362/257
2007/0121343	A1 *	5/2007	Brown		362/612
2008/0285264	A1 *	11/2008	Whitehouse et al.		362/217

* cited by examiner



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(57) **CLAIM**

The ornamental design for a light emitting diode lens, as shown and described.

DESCRIPTION

FIG. 1 is an enlarged perspective view of a light emitting diode lens in accordance with a first embodiment of our new design;

FIG. 2 is a top view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 3 is a bottom view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 4 is a front view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 5 is a rear view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 6 is a left side view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 7 is a right side view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. 8 is an enlarged perspective view of the light emitting diode lens in accordance with a second embodiment of our new design, with the showing of inner lines to indicate that the light emitting diode lens of our new design is translucent, the only difference between the second embodiment and the first embodiment being that inner components such as light emit-

ting diodes coupled to the light emitting diode lens are translucently visible in the second embodiment;

FIG. 9 is a perspective view of a light emitting diode lens in accordance with a third embodiment of our new design;

FIG. 10 is a top view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. 11 is a bottom view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. 12 is a front view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. 13 is a rear view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. 14 is a left side view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. 15 is a right side view of the light emitting diode lens in accordance with the third embodiment of our new design; and,

FIG. 16 is an enlarged perspective view of the light emitting diode lens in accordance with a fourth embodiment of our new design, with the showing of inner lines to indicate that the light emitting diode lens of our new design is translucent, the only difference between the fourth embodiment and the third embodiment being that inner components such as light emitting diodes coupled to the light emitting diode lens are translucently visible in the fourth embodiment.

The broken lines shown in the drawings represent environmental structure and form no part of the claimed design.

1 Claim, 8 Drawing Sheets

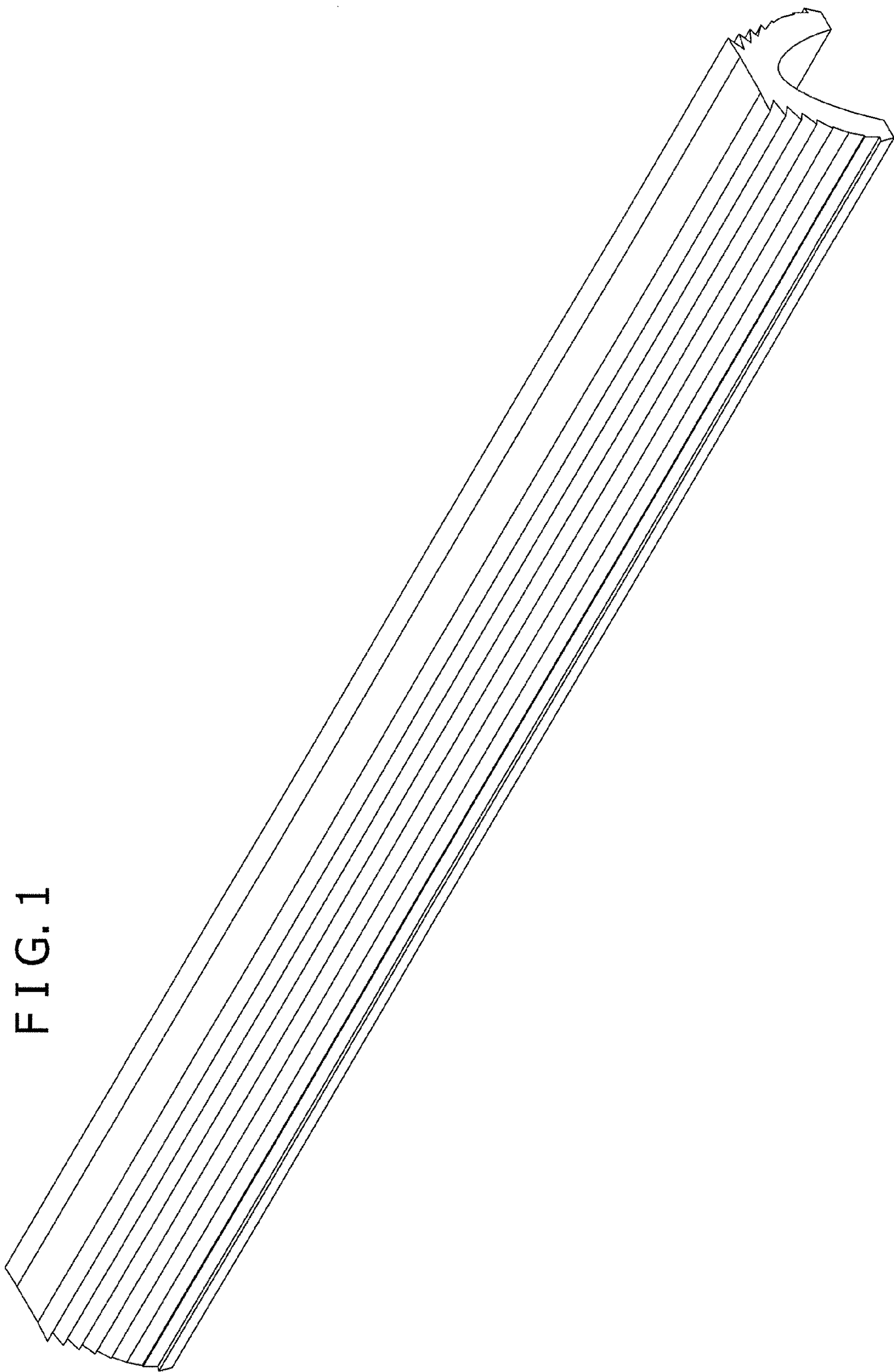


FIG. 1

FIG. 2

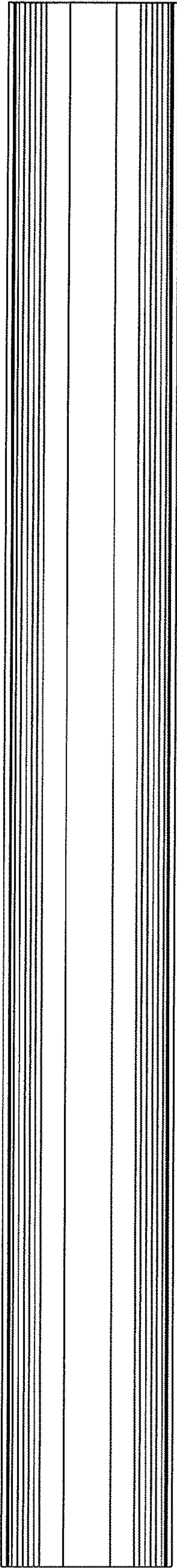


FIG. 3

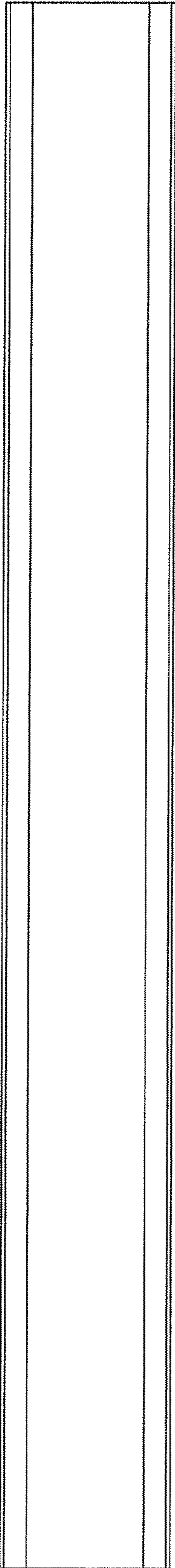


FIG. 4

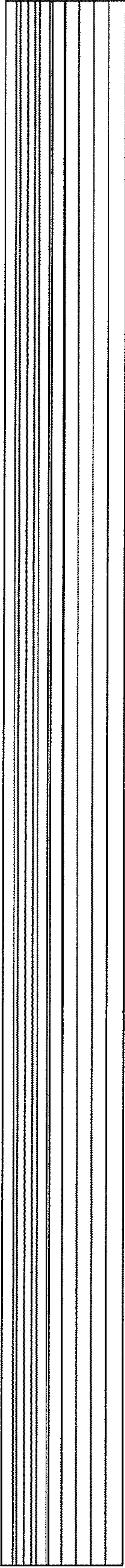


FIG. 5

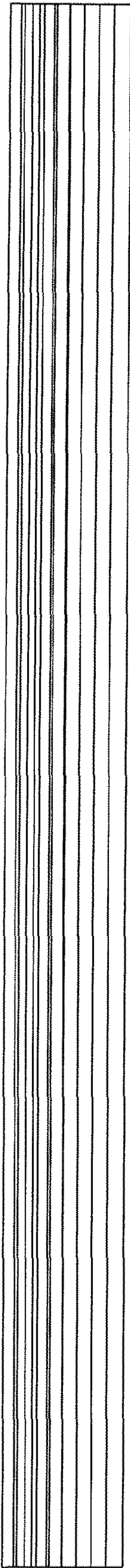


FIG. 6



FIG. 7



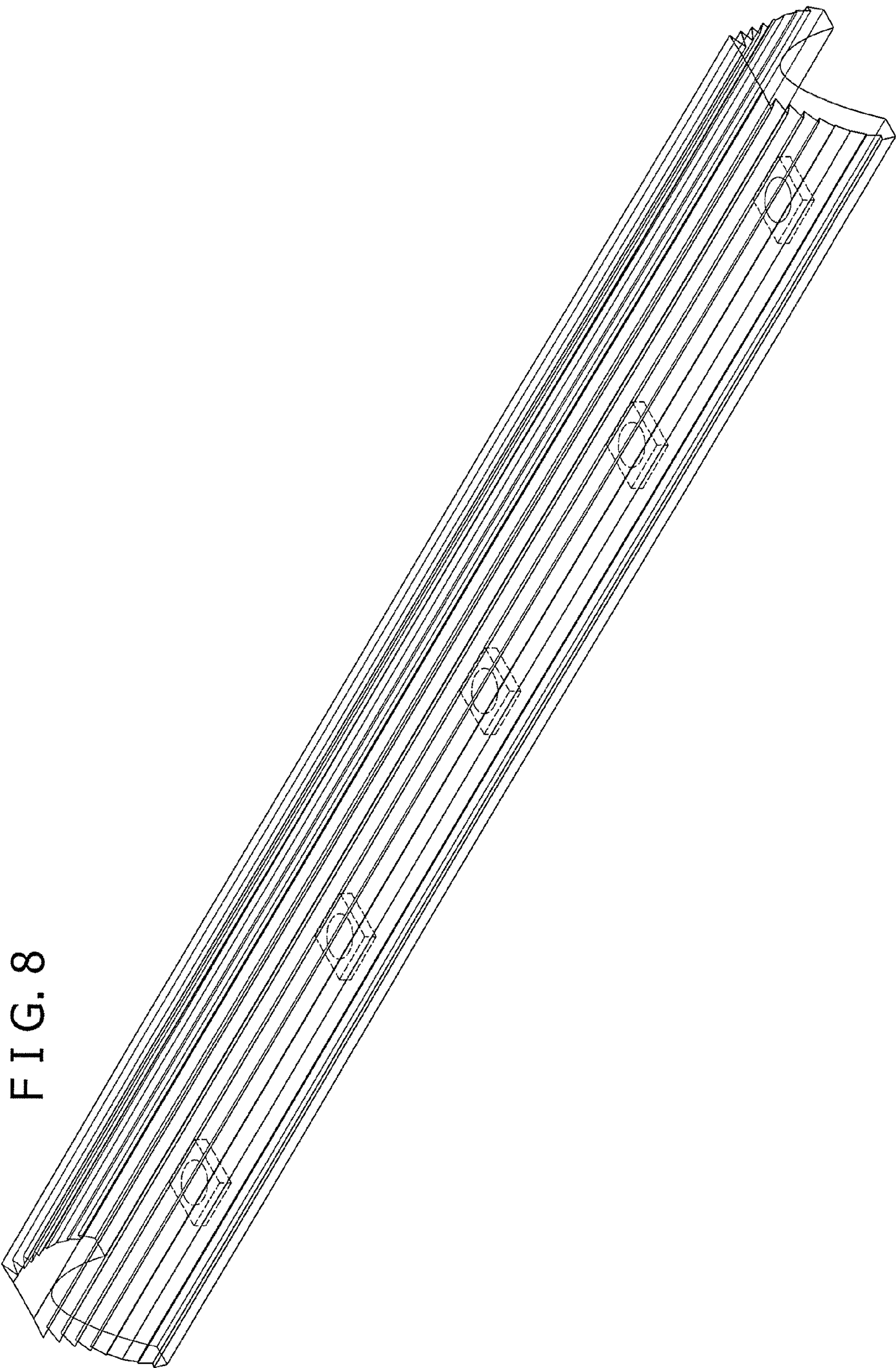


FIG. 8

FIG. 9

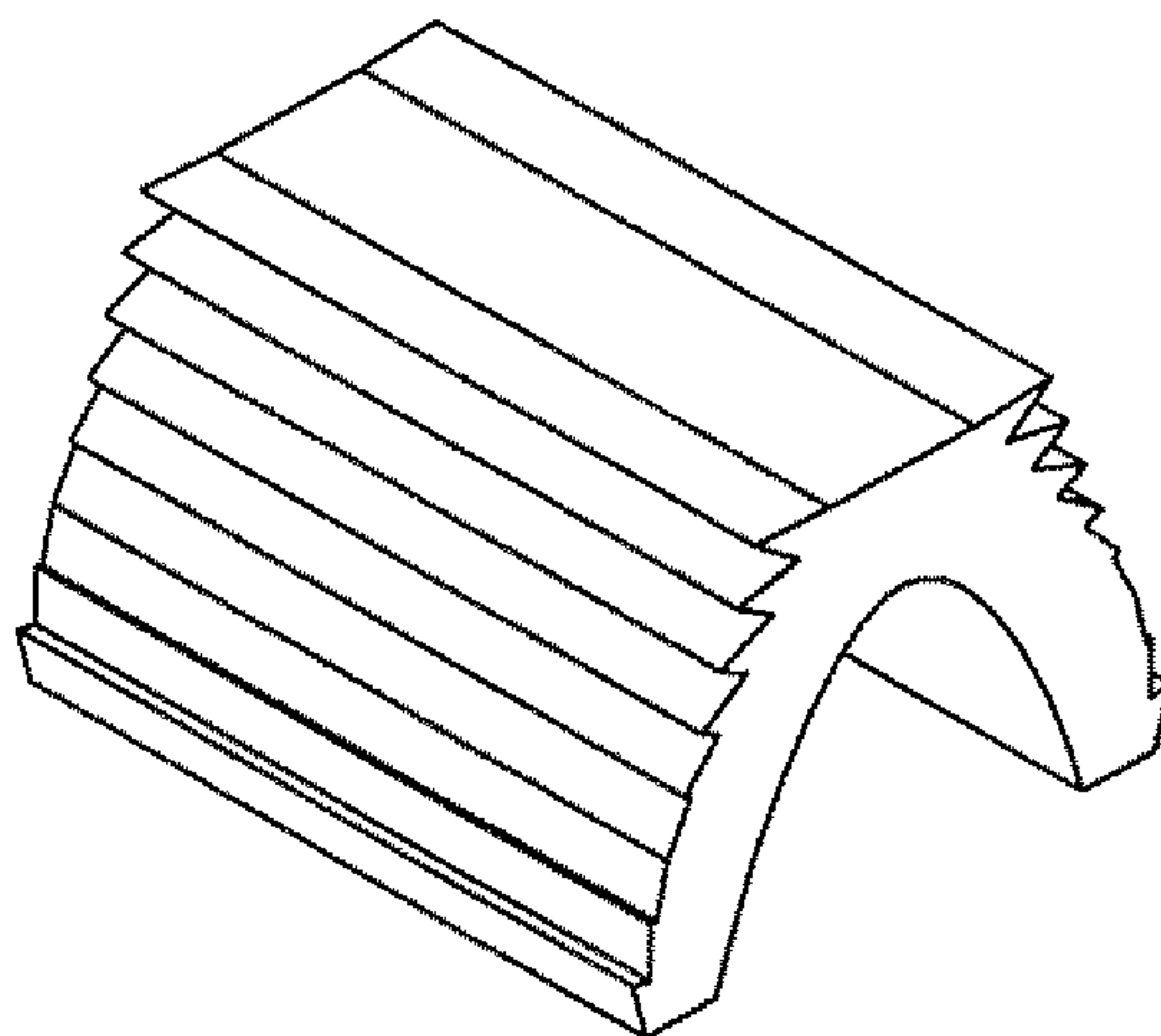


FIG. 10

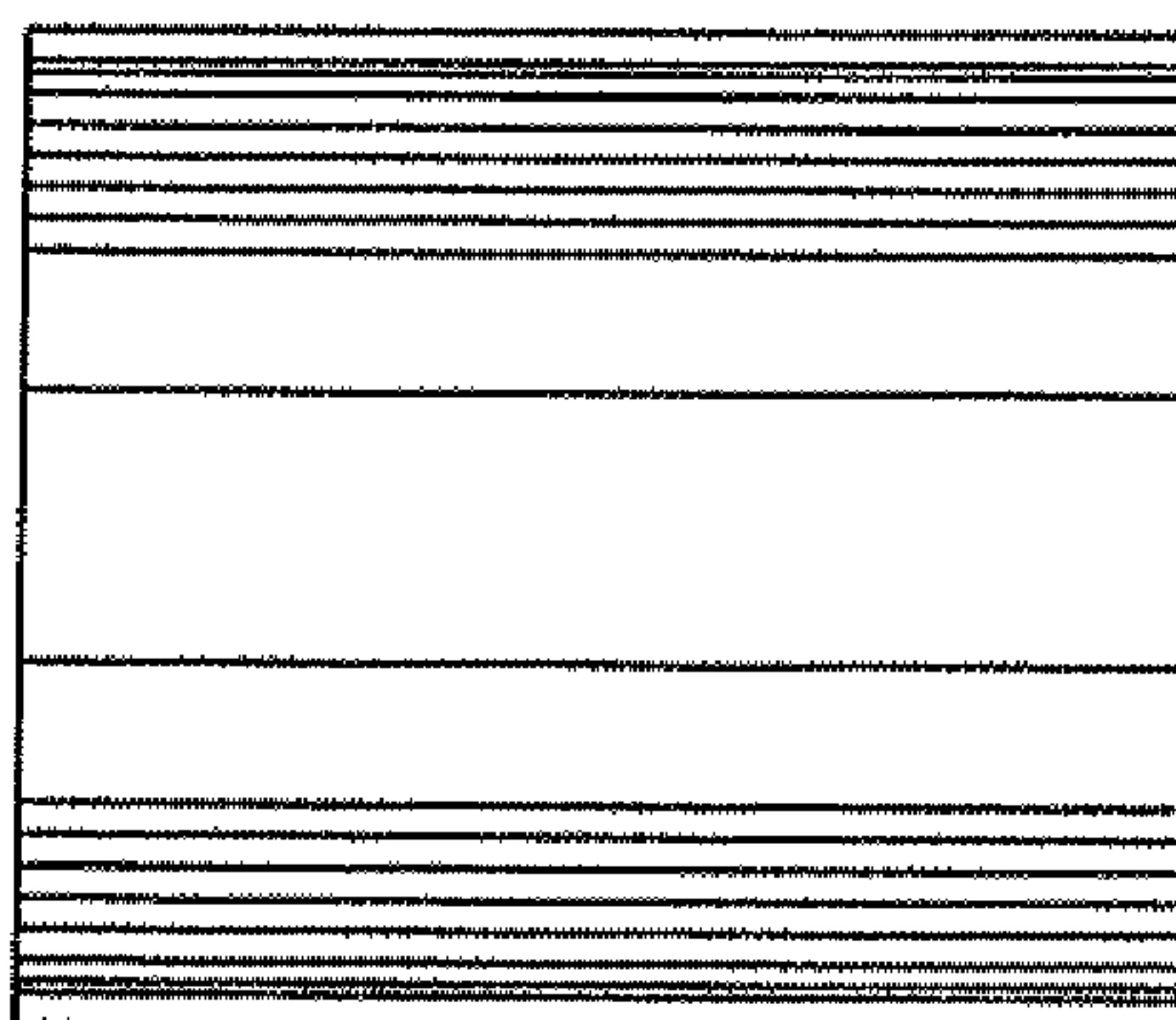


FIG. 11

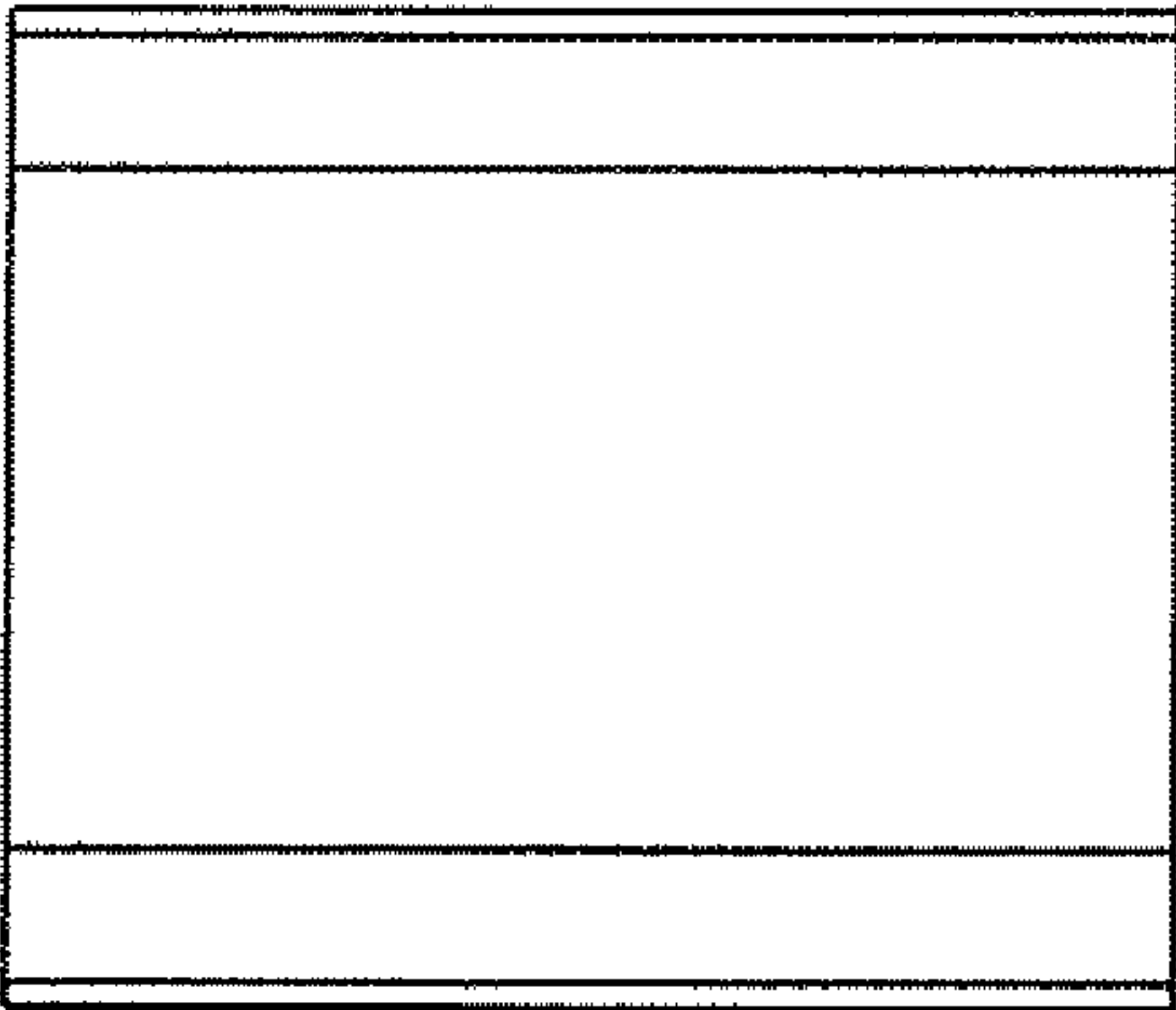


FIG. 12

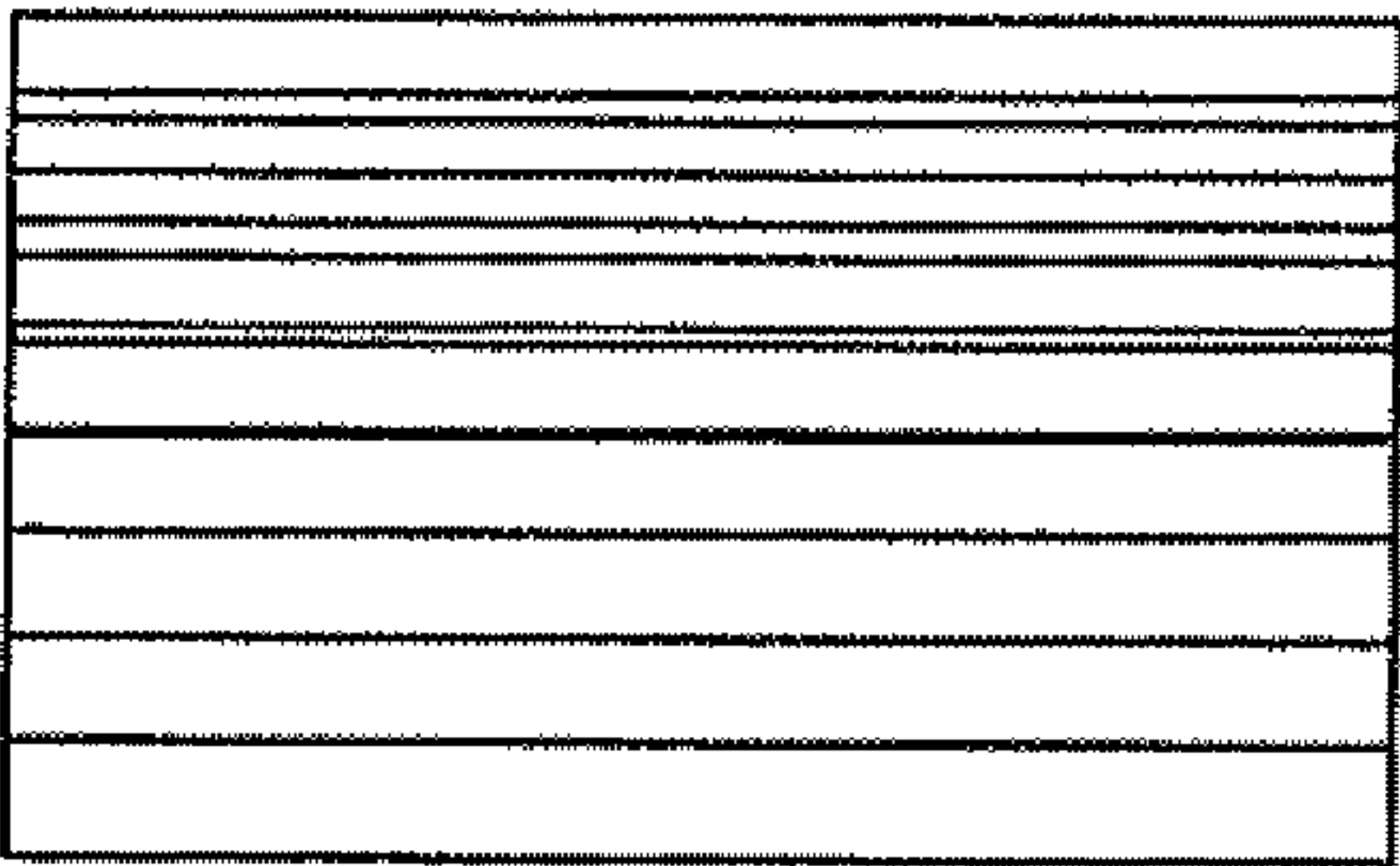


FIG. 13

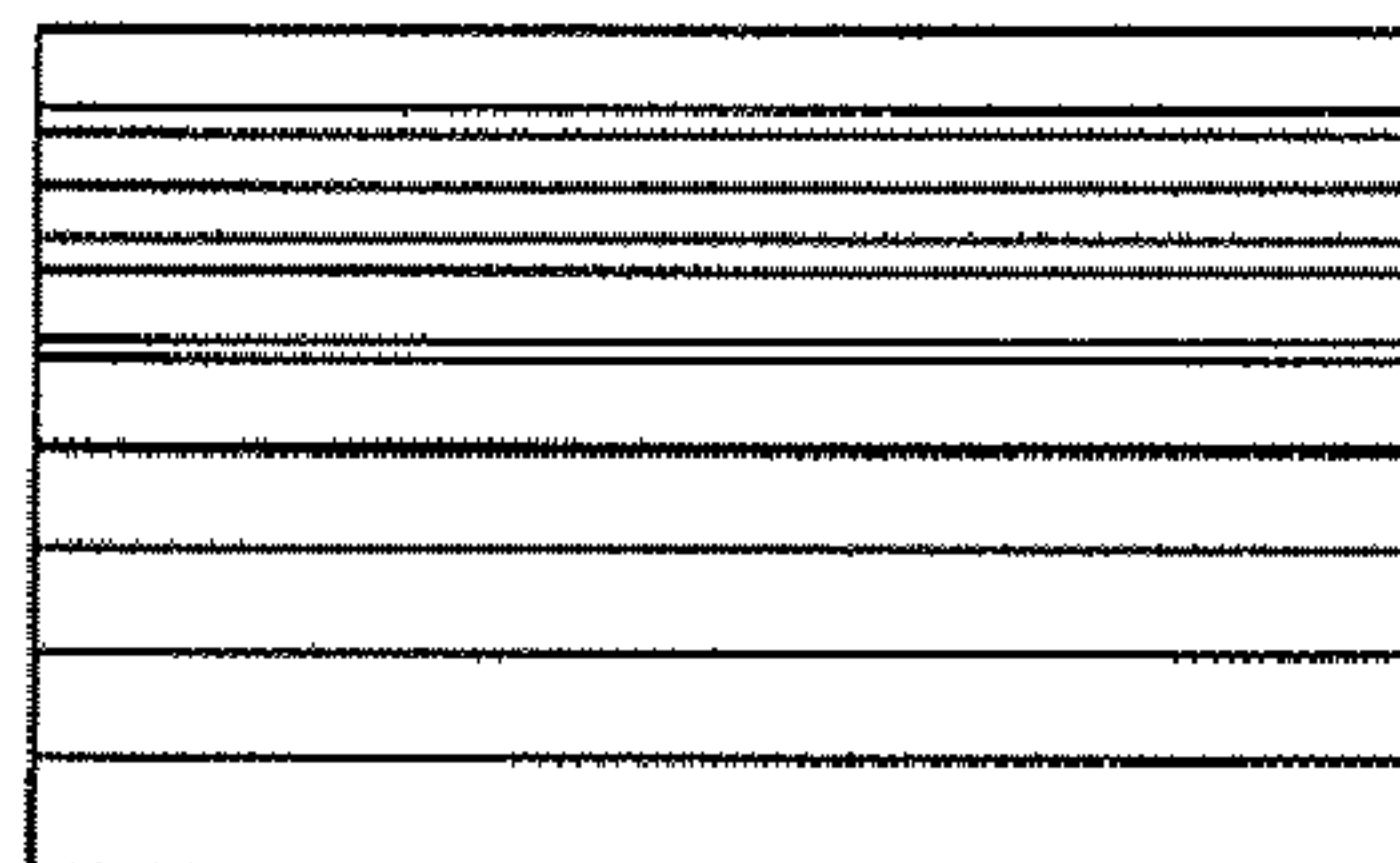


FIG. 14

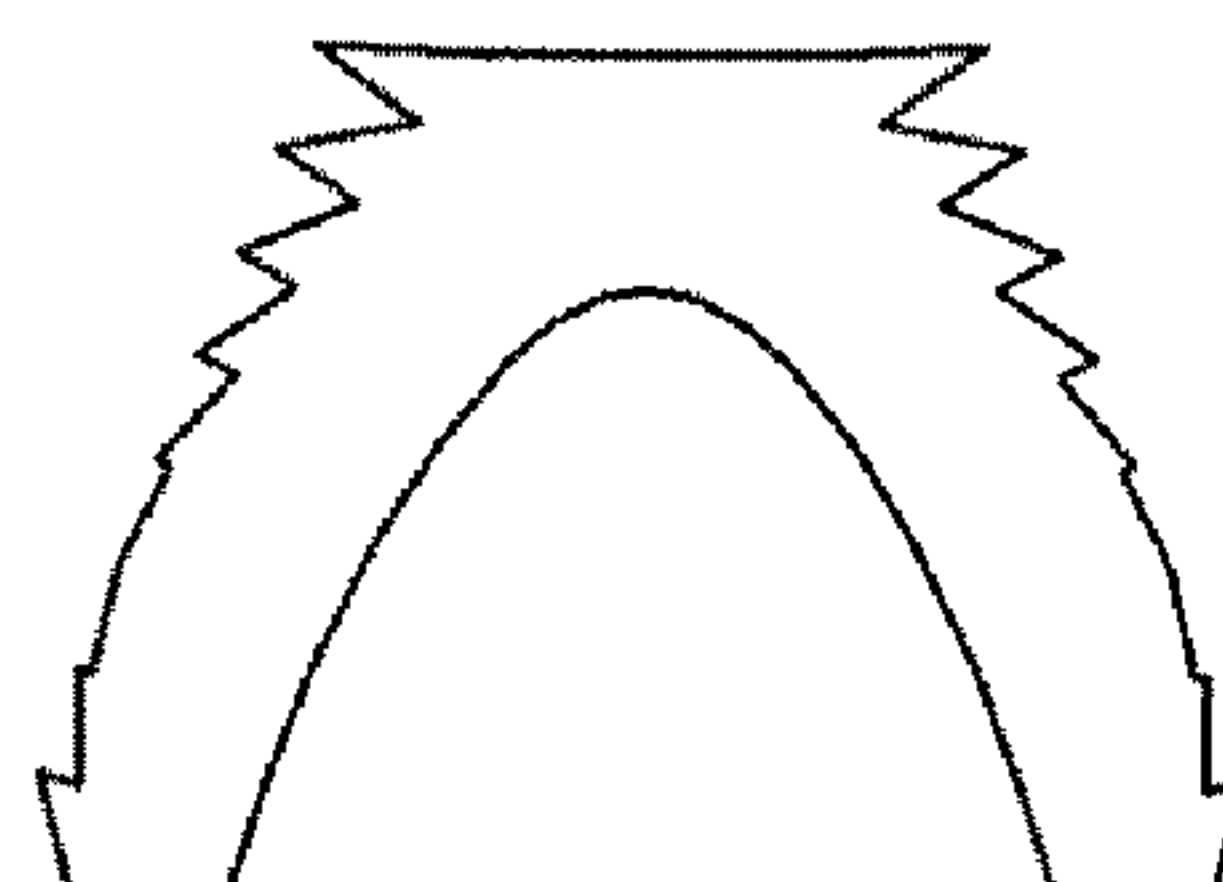


FIG. 15

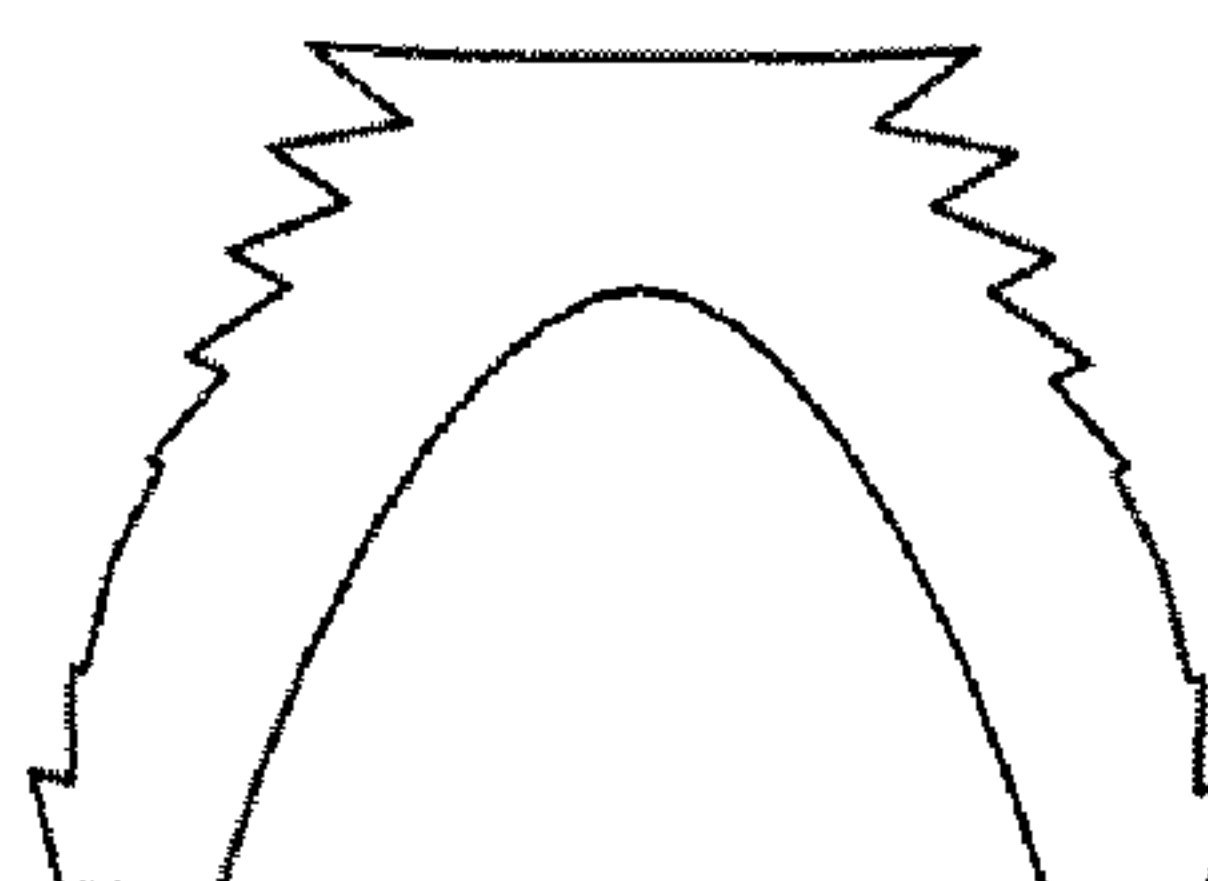


FIG. 16

