



US00D838681S

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

(10) **Patent No.:** **US D838,681 S**

(45) **Date of Patent:** **\*\* \*Jan. 22, 2019**

(54) **PLASMA CHAMBER LINER**

(71) Applicant: **Applied Materials, Inc.**, Santa Clara, CA (US)

(72) Inventor: **Eric Kihara Shono**, San Mateo, CA (US)

(73) Assignee: **Applied Materials, Inc.**, Santa Clara, CA (US)

(\*) Notice: This patent is subject to a terminal disclaimer.

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

(21) Appl. No.: **29/602,211**

(22) Filed: **Apr. 28, 2017**

(51) **LOC (11) Cl.** ..... **13-03**

(52) **U.S. Cl.**  
USPC ..... **D13/182**

(58) **Field of Classification Search**  
USPC ..... D13/182; D7/550.1, 587; D15/138;  
118/715, 728, 50, 500, 501, 428, 722,  
118/504, 505, 506, 719, 733, 309, 723 R;  
156/345.51, 916

CPC . C23C 16/00; C23C 16/4401; C23C 16/0245;  
C23C 14/564; C23F 1/02; C23F 1/04;  
C23F 1/38; B65B 1/04; B65B 3/04

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,964,947	A *	10/1999	Zhao	.....	C23C 16/4411	118/715
6,277,237	B1 *	8/2001	Schoepp	.....	H01J 37/32495	118/723 R
6,374,871	B2 *	4/2002	Donohoe	.....	H01J 37/321	118/715
7,011,039	B1 *	3/2006	Mohn	.....	H01J 37/321	118/723 R
D583,838	S	12/2008	Schmitz			

D658,691	S *	5/2012	Suzuki	.....	D15/138
D658,692	S *	5/2012	Suzuki	.....	D15/138
D658,693	S *	5/2012	Suzuki	.....	D15/138
D678,228	S *	3/2013	Suzuki	.....	D13/199
D699,692	S *	2/2014	Yousif	.....	D13/182
D716,239	S *	10/2014	Lau	.....	D13/182
D716,240	S *	10/2014	Lau	.....	D13/182
8,858,754	B2 *	10/2014	Horiguchi	.....	H01J 37/3244
					118/723 E
D717,746	S *	11/2014	Lau	.....	D13/182
8,980,005	B2	3/2015	Carlson et al.		
D802,545	S *	11/2017	Tauchi	.....	D13/182
D804,436	S *	12/2017	Tauchi	.....	D13/182
D812,578	S *	3/2018	Uemura	.....	D13/182

(Continued)

**OTHER PUBLICATIONS**

Taiwan Search Report for Application No. 106306300 dated May 7, 2018.

(Continued)

*Primary Examiner* — Elizabeth J Oswecki  
(74) *Attorney, Agent, or Firm* — Patterson + Sheridan, LLP

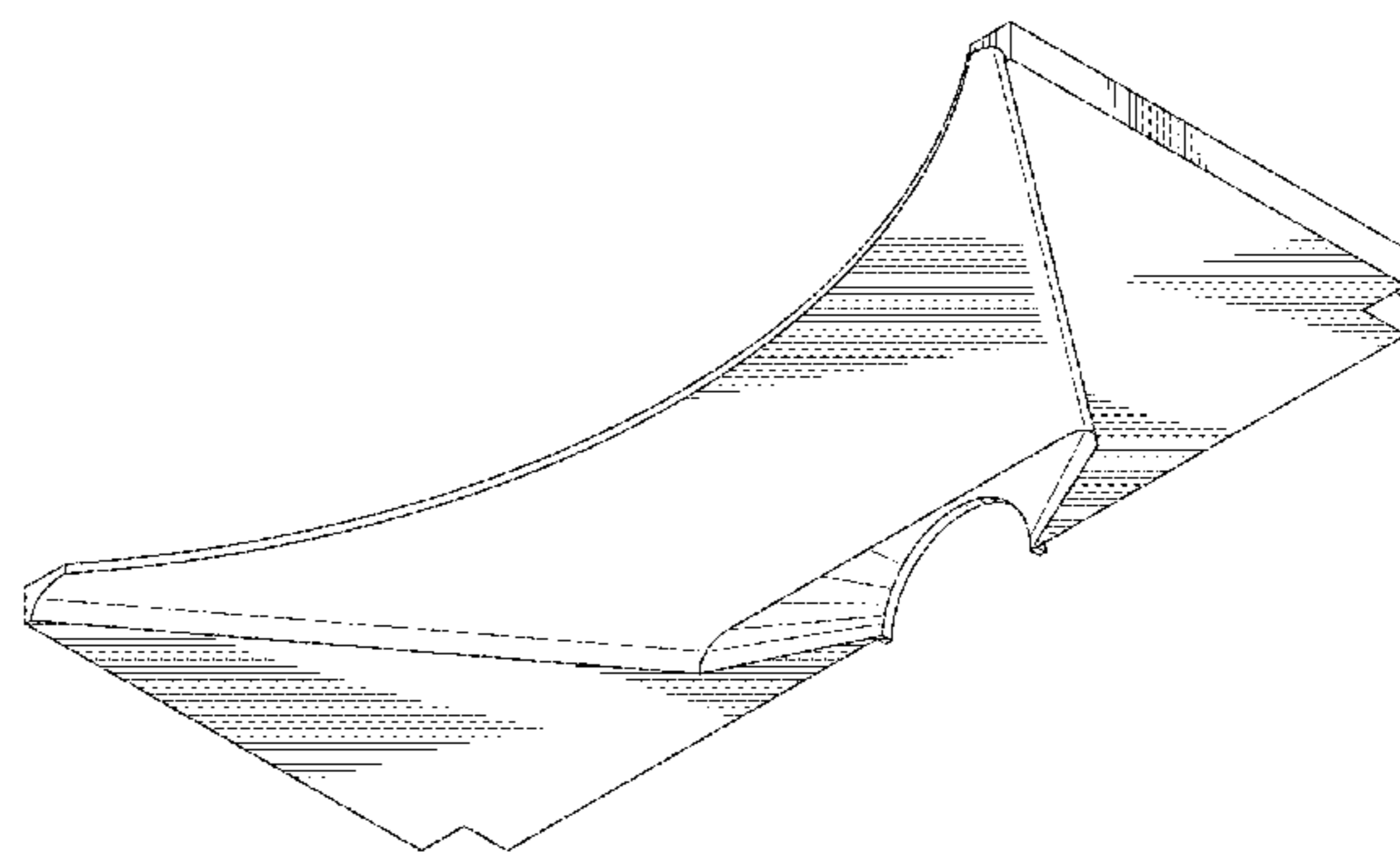
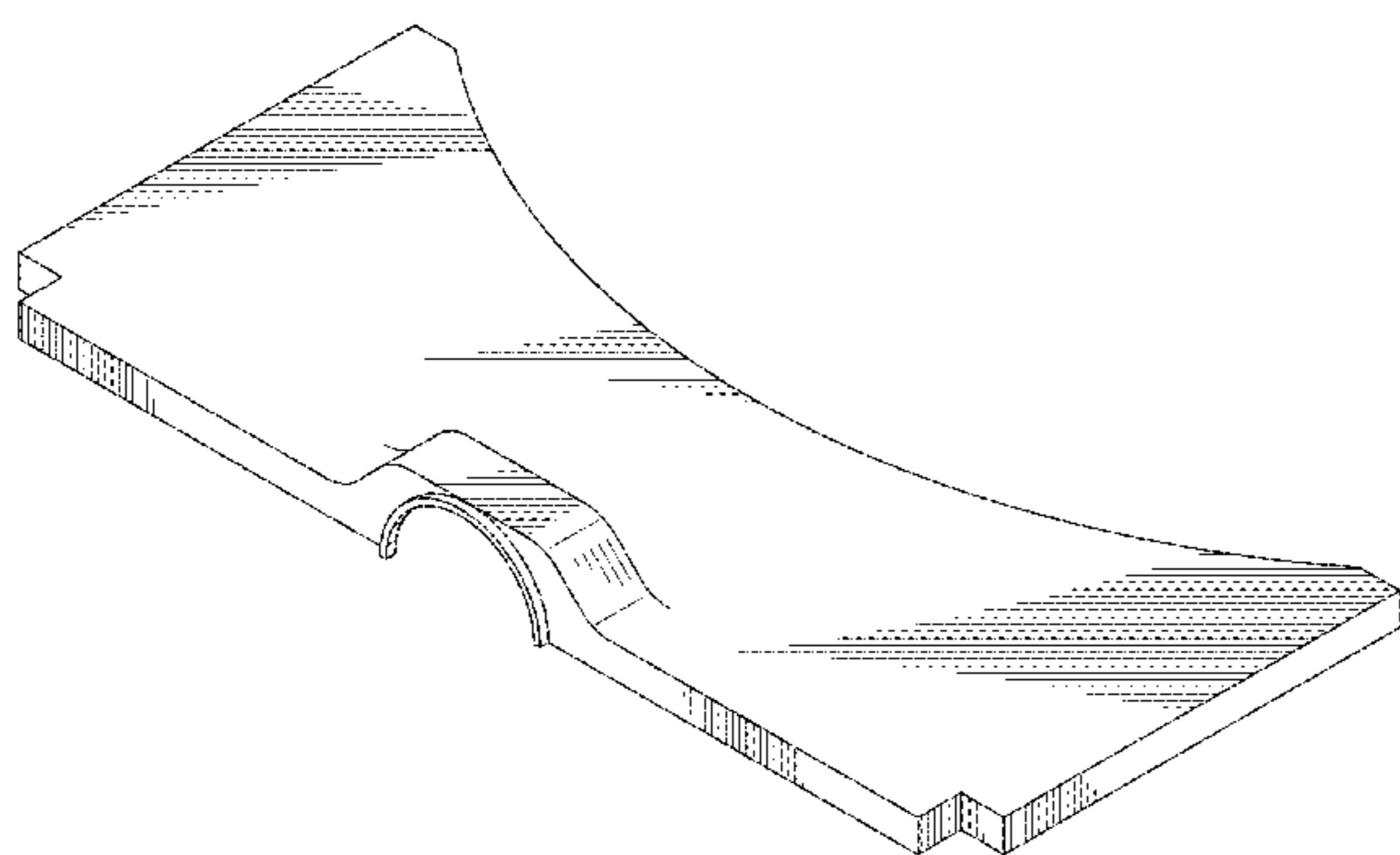
(57) **CLAIM**

The ornamental design for a plasma chamber liner, as shown and described.

**DESCRIPTION**

FIG. 1 is a top isometric view of a plasma chamber liner showing my new design;  
FIG. 2 is a bottom isometric view thereof;  
FIG. 3 is a top plan view thereof;  
FIG. 4 is a bottom plan view thereof;  
FIG. 5 is a side elevational view thereof;  
FIG. 6 is an opposite side elevational view thereof; and,  
FIG. 7 is a front elevational view thereof, a rear elevational view being identical.

**1 Claim, 6 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2014/0116366 A1 5/2014 Harman  
2014/0322897 A1 10/2014 Samir et al.

OTHER PUBLICATIONS

Japanese Office Action for Application No. JP 2017-024106 dated  
Apr. 10, 2018.

Japanese Office Action for Application No. JP 2017-024107 dated  
Apr. 10, 2018.

\* cited by examiner

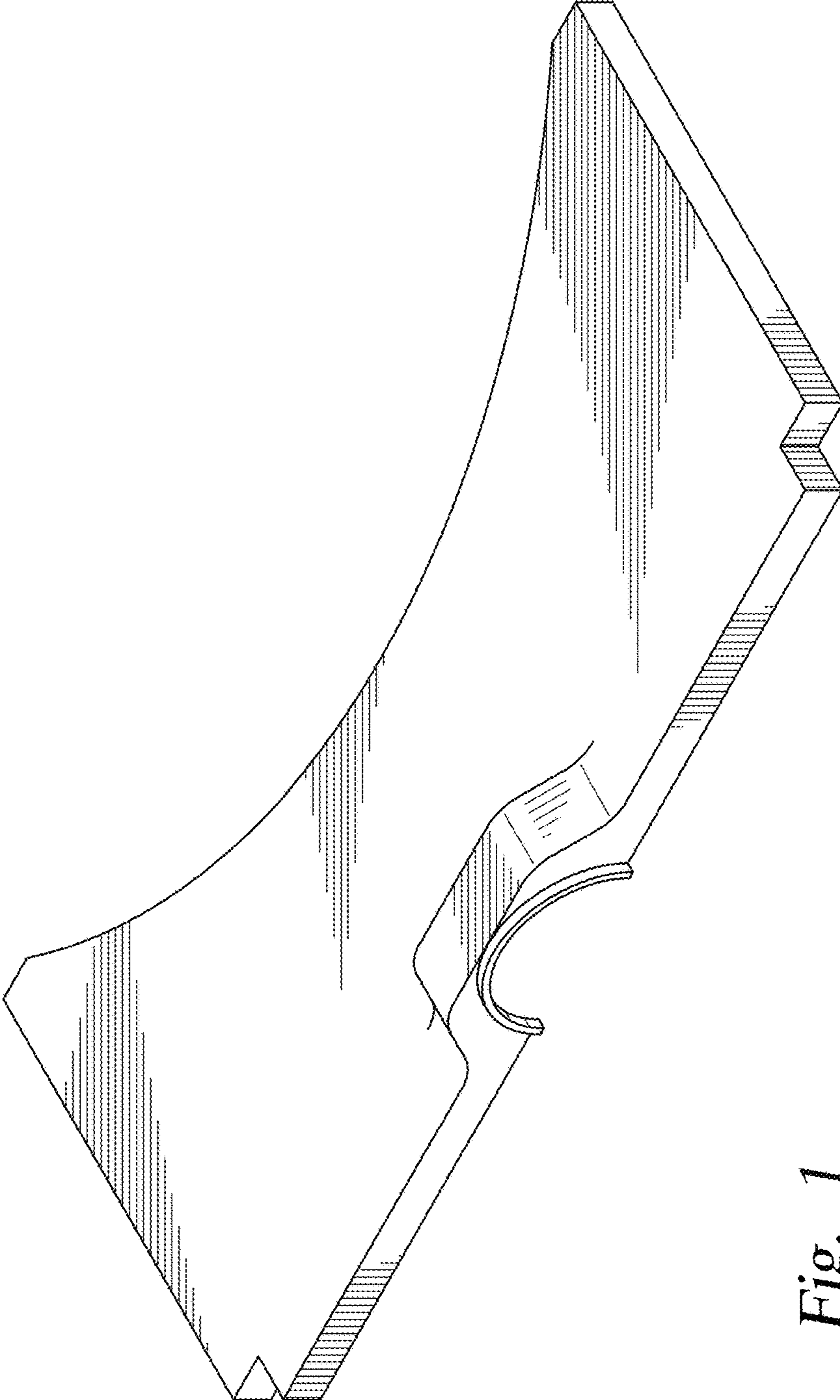


Fig. 1

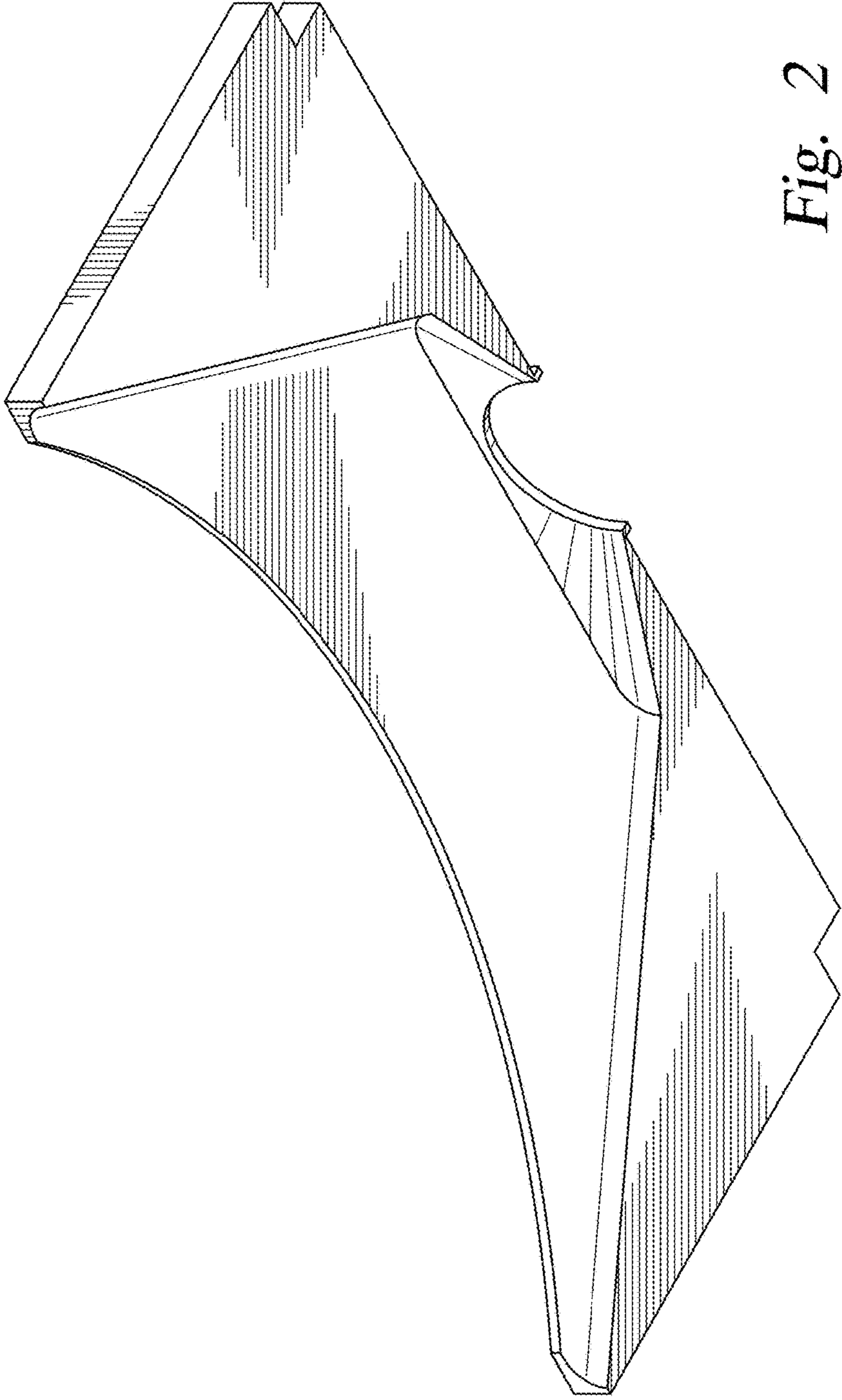


Fig. 2

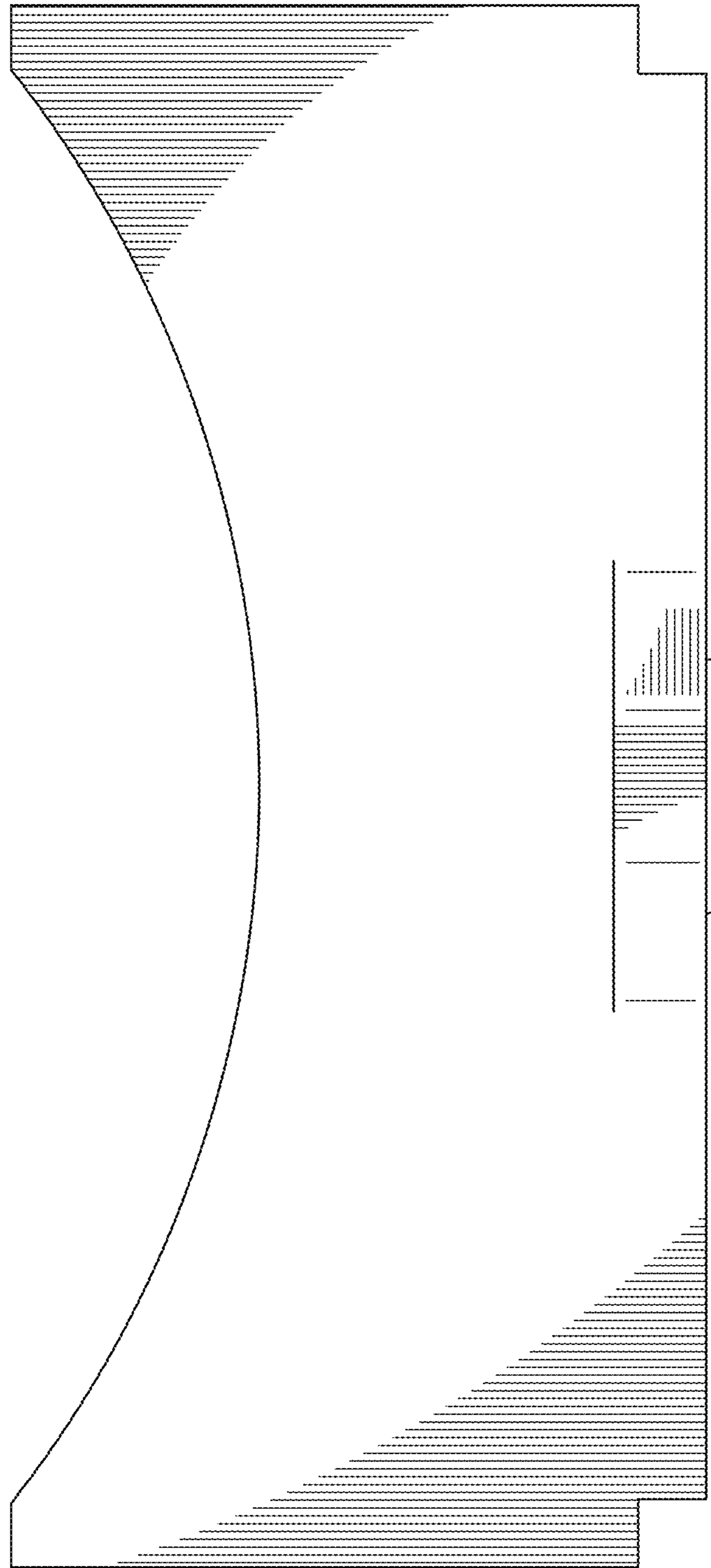


Fig. 3



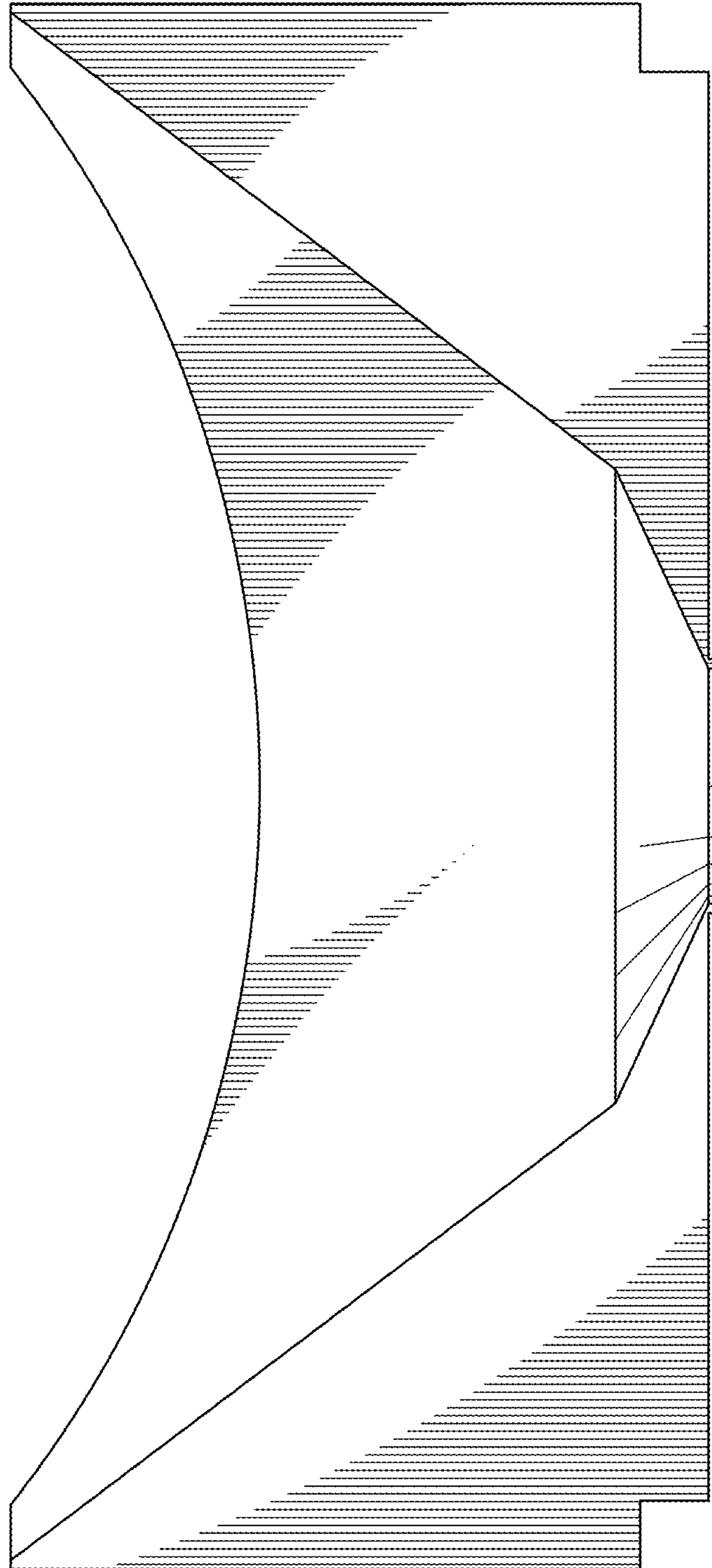


Fig. 4

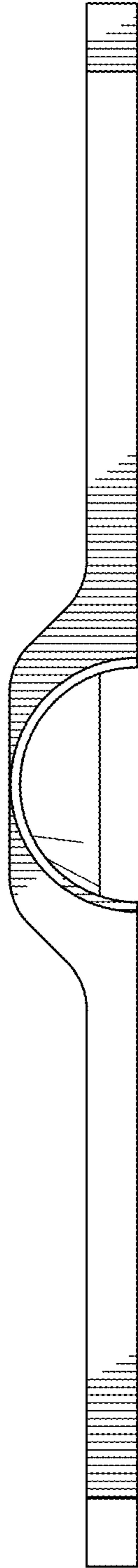


Fig. 5

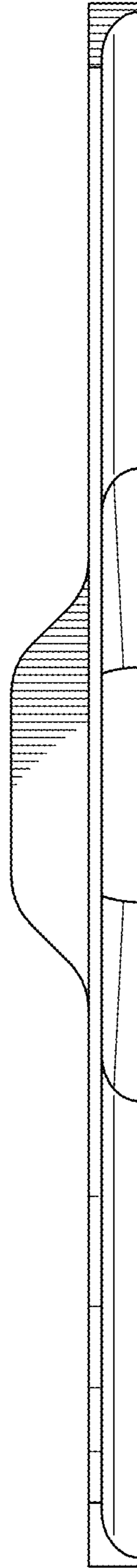
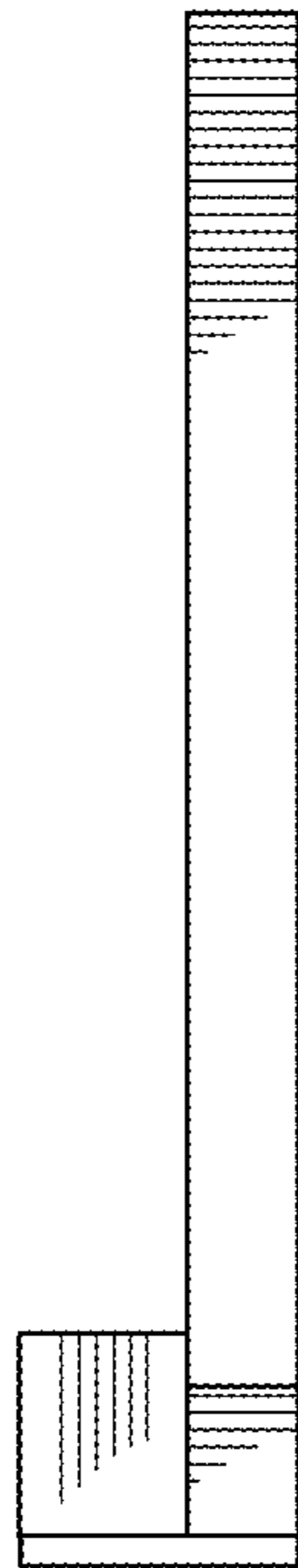


Fig. 6



*Fig. 7*