



US00D559174S

(12) **United States Design Patent** (10) **Patent No.:** **US D559,174 S**
Sharma et al. (45) **Date of Patent:** **** Jan. 8, 2008**

(54) **SHAPED SOLAR CELL PACKAGE DESIGN**

4,691,994 A 9/1987 Afian et al.

(75) Inventors: **Suvi Sharma**, Berkeley, CA (US);
Kevin Gibson, Redwood City, CA
(US); **Alelie Funcell**, Berkeley, CA
(US)

(Continued)

FOREIGN PATENT DOCUMENTS

AU 5544098 A1 8/1998

(73) Assignee: **Solaria Corporation**, Fremont, CA
(US)

(Continued)

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

Primary Examiner—Stella Reid
Assistant Examiner—Derrick Holland

(21) Appl. No.: **29/243,073**

(74) *Attorney, Agent, or Firm*—Townsend and Townsend
and Crew LLP

(22) Filed: **Nov. 18, 2005**

(57) **CLAIM**

(51) **LOC (8) Cl.** **13-02**

The ornamental design for a shaped solar cell package design, as shown and described.

(52) **U.S. Cl.** **D13/102**

(58) **Field of Classification Search** D13/102,
D13/101, 103, 184, 199; 126/561; 136/206,
136/244–251, 256, 291, 292
See application file for complete search history.

DESCRIPTION

FIG. 1 is a top perspective view of a shaped solar cell package design showing our new design;

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,029,519 A 6/1977 Schertz et al.
- 4,091,798 A 5/1978 Fletcher et al.
- 4,122,833 A 10/1978 Lovelace et al.
- 4,143,234 A 3/1979 Johnson et al.
- 4,166,917 A 9/1979 Dorfled et al.
- D258,232 S * 2/1981 Weis D13/102
- 4,293,192 A 10/1981 Bronstein
- 4,295,463 A 10/1981 Citron
- 4,333,447 A 6/1982 Lemrow et al.
- 4,361,136 A 11/1982 Huang
- 4,404,422 A 9/1983 Green et al.
- 4,440,153 A 4/1984 Melchior
- 4,449,514 A 5/1984 Selcuk
- 4,454,371 A 6/1984 Folino
- 4,457,297 A 7/1984 Sobczak et al.
- 4,463,749 A 8/1984 Sobczak et al.
- 4,485,264 A * 11/1984 Izu et al. 136/244
- 4,511,618 A 4/1985 Duchene et al.
- 4,571,812 A 2/1986 Gee
- 4,589,191 A 5/1986 Green et al.

FIG. 2 is a front side view thereof;

FIG. 3 is a top plan view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a rear view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is a top perspective view of an alternative embodiment thereof;

FIG. 9 is a front side view thereof;

FIG. 10 is a top plan view thereof;

FIG. 11 is a left side view thereof;

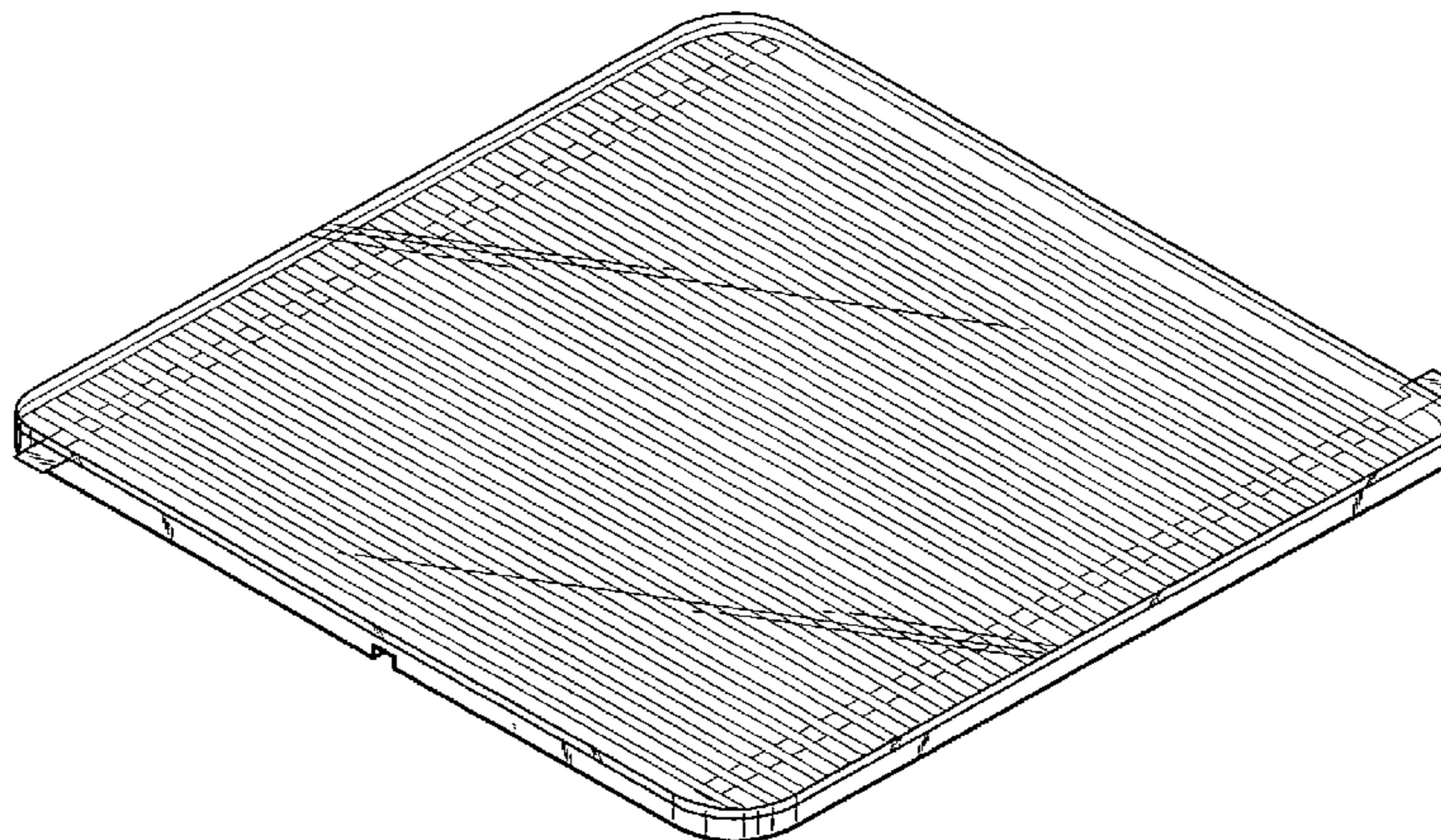
FIG. 12 is a right side view thereof;

FIG. 13 is a rear side view thereof; and,

FIG. 14 is a bottom plan view thereof.

The broken lines shown are for illustrative purposes and form no part of the claimed design.

1 Claim, 4 Drawing Sheets



US D559,174 S

U.S. PATENT DOCUMENTS

4,848,319	A	7/1989	Appeldorn	
D303,244	S *	9/1989	Hanak	D13/102
4,863,224	A	9/1989	Afian et al.	
4,964,713	A	10/1990	Goetzberger	
4,999,059	A	3/1991	Bagno	
5,153,780	A	10/1992	Jorgensen et al.	
5,167,724	A	12/1992	Chiang	
5,174,275	A	12/1992	Holland	
5,232,518	A *	8/1993	Nath et al.	136/251
5,245,985	A	9/1993	Holland	
5,344,496	A	9/1994	Stern et al.	
5,356,488	A	10/1994	Hezel	
5,365,920	A	11/1994	Lechner	
D353,129	S *	12/1994	Ricaud et al.	D13/102
5,395,070	A	3/1995	Stirbl et al.	
5,449,626	A	9/1995	Hezel	
5,460,659	A	10/1995	Krut	
5,517,339	A	5/1996	Riccobono et al.	
5,529,054	A	6/1996	Shoen	
5,542,409	A	8/1996	Sampayo	
5,542,988	A *	8/1996	Bogus	136/244
5,564,411	A	10/1996	Myles, III et al.	
5,660,644	A	8/1997	Clemens	
D391,921	S *	3/1998	Zimmer et al.	D13/102
5,787,878	A	8/1998	Ratliff, Jr.	
5,790,304	A	8/1998	Sanders et al.	
5,851,309	A	12/1998	Kousa	
5,865,905	A	2/1999	Clemens	
5,877,874	A	3/1999	Rosenberg	
5,882,434	A	3/1999	Horne	
5,936,777	A	8/1999	Dempewolf	
5,959,787	A	9/1999	Fairbanks	
5,964,216	A	10/1999	Hoffschmidt et al.	
6,008,449	A	12/1999	Cole	
6,091,017	A	7/2000	Stern	
6,091,020	A	7/2000	Fairbanks et al.	
6,118,067	A	9/2000	Lashley et al.	
6,134,784	A	10/2000	Carrie et al.	
6,167,724	B1	1/2001	Pozivil	
D442,139	S *	5/2001	Sasaoka	D13/102
6,274,402	B1	8/2001	Verlinden et al.	
6,274,860	B1	8/2001	Rosenberg	
6,309,901	B1	10/2001	Tahon et al.	
6,333,457	B1	12/2001	Mulligan et al.	
6,337,283	B1	1/2002	Verlinden et al.	
6,387,726	B1	5/2002	Verlinden et al.	
6,423,568	B1	7/2002	Verlinden et al.	
6,429,037	B1	8/2002	Wenham et al.	
6,440,769	B2	8/2002	Peumans et al.	
D469,399	S *	1/2003	Shugar	D13/102
6,528,716	B2	3/2003	Collette et al.	
6,612,705	B1	9/2003	Davidson et al.	
6,619,282	B1	9/2003	Murtha	
6,620,995	B2	9/2003	Vasylyev et al.	
6,666,207	B1	12/2003	Arkas et al.	
6,676,263	B2	1/2004	Winston	
6,700,054	B2	3/2004	Cherney et al.	
6,700,055	B2	3/2004	Barone	
6,804,062	B2	10/2004	Atwater et al.	
6,843,573	B2	1/2005	Rabinowitz et al.	
2002/0007845	A1	1/2002	Jean-Paul et al.	
2002/0018308	A1	2/2002	Winston	

2002/0075579	A1	6/2002	Vasylyev et al.
2002/0139414	A1	10/2002	Vasylyev et al.
2003/0015233	A1	1/2003	Barone
2003/0037814	A1	2/2003	Gilbert et al.
2003/0081333	A1	5/2003	Winston et al.
2003/0095340	A1	5/2003	Atwater et al.
2003/0156337	A1	8/2003	Davidson et al.
2003/0201007	A1	10/2003	Fraas et al.
2004/0016454	A1	1/2004	Murphy et al.
2004/0021964	A1	2/2004	Rabinowitz et al.
2004/0097012	A1	5/2004	Weber et al.
2004/0134531	A1	7/2004	Habraken et al.
2004/0194820	A1	10/2004	Barone
2004/0243364	A1	12/2004	Wendelin et al.
2005/0070059	A1	3/2005	Blakers et al.
2005/0081908	A1	4/2005	Stewart
2005/0081909	A1	4/2005	Paull
2005/0087294	A1	4/2005	Rabinowitz

FOREIGN PATENT DOCUMENTS

AU	743826	B2	2/2002
AU	220348	A5	6/2002
AU	3902270	A4	5/2003
AU	2349175	AA	6/2003
CA	2432300	AA	6/2002
CA	2467112	AA	6/2003
EP	461124	B1	5/1995
EP	657948	A3	6/1997
EP	1174342	A1	1/2002
EP	1261039	A1	11/2002
EP	1342259	A1	9/2003
EP	1461834	A1	9/2003
EP	1112597	B1	3/2004
EP	1131586	B1	3/2004
EP	1732141	A1	12/2006
JP	10104547	A2	4/1998
WO	9118420	A1	11/1991
WO	9406046	A1	3/1994
WO	9506330	A1	3/1995
WO	9533220	A1	12/1995
WO	9623115	A1	8/1996
WO	9624954	A1	8/1996
WO	9803823	A1	1/1998
WO	9832164	A1	7/1998
WO	9905462	A1	2/1999
WO	0074147	A1	12/2000
WO	0079593	A1	12/2000
WO	0151962	A2	7/2001
WO	1554650	A3	8/2001
WO	0208058	A1	1/2002
WO	0245143	A1	6/2002
WO	02075225	A2	9/2002
WO	0155650	C2	10/2002
WO	0190661	A3	11/2002
WO	02095838	A1	11/2002
WO	03019083	A1	3/2003
WO	03022578	A1	3/2003
WO	03047004	A1	6/2003
WO	03049201	A1	6/2003
WO	03107078	A2	12/2003
WO	04100252	A1	11/2004

* cited by examiner

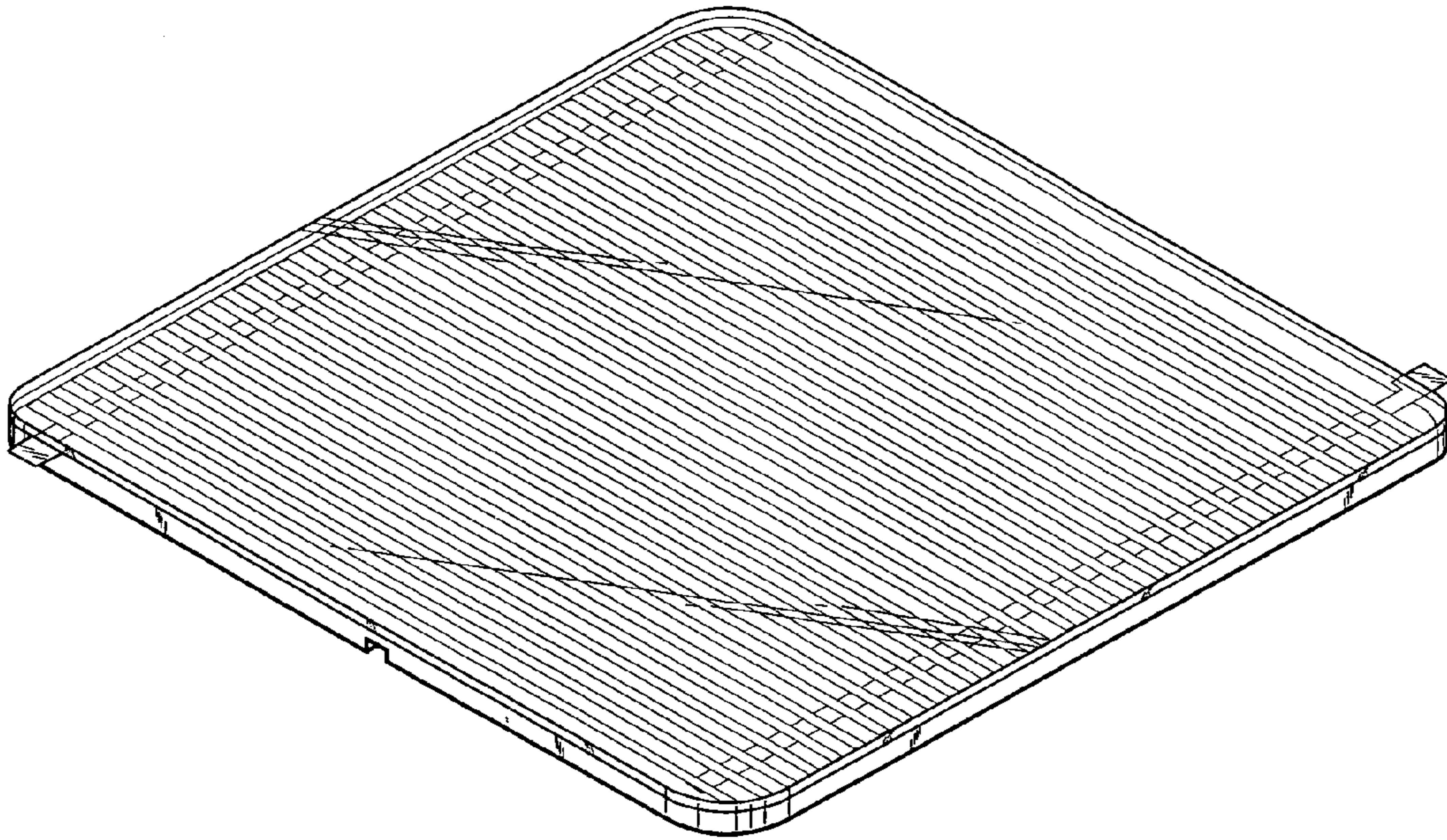


FIG. 1

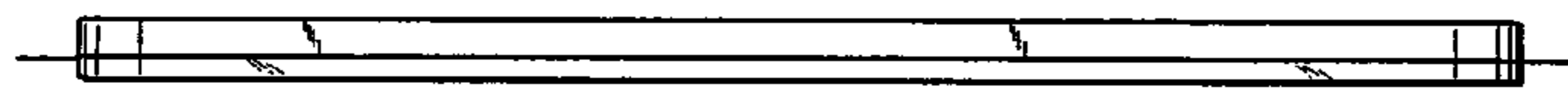


FIG. 2



FIG. 4

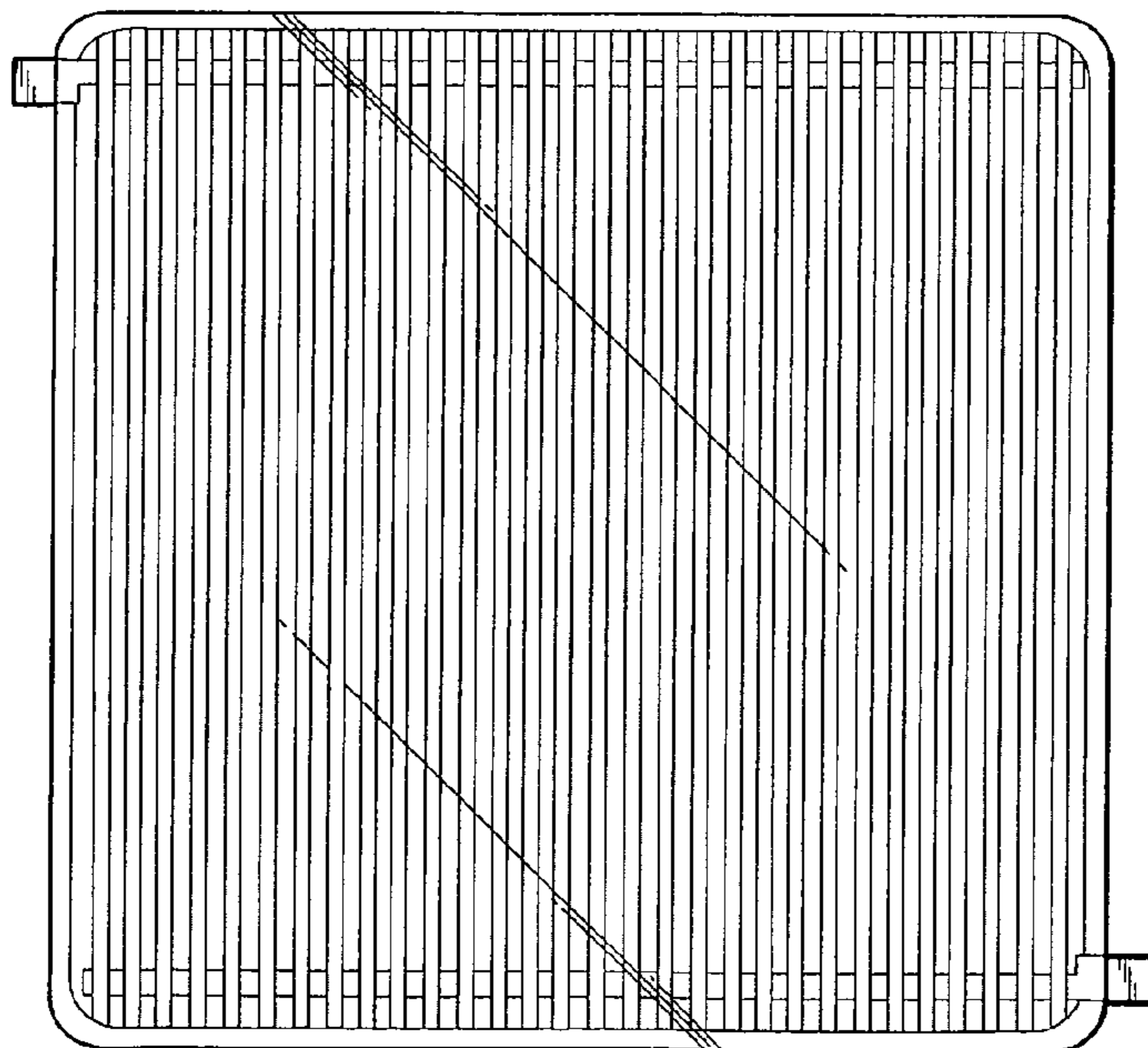


FIG. 3



FIG. 5

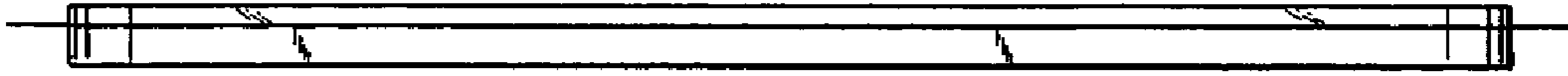


FIG. 6

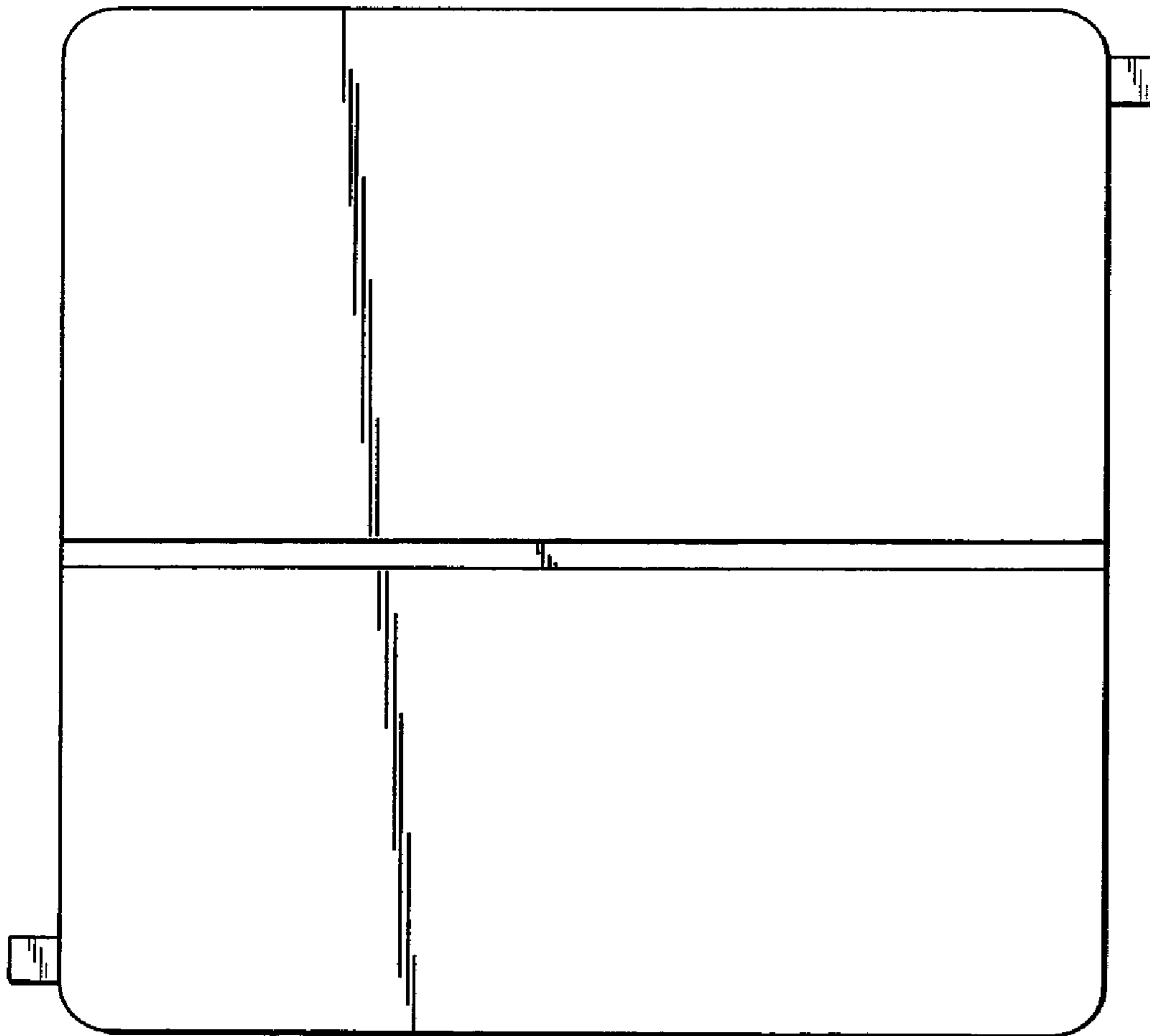


FIG. 7

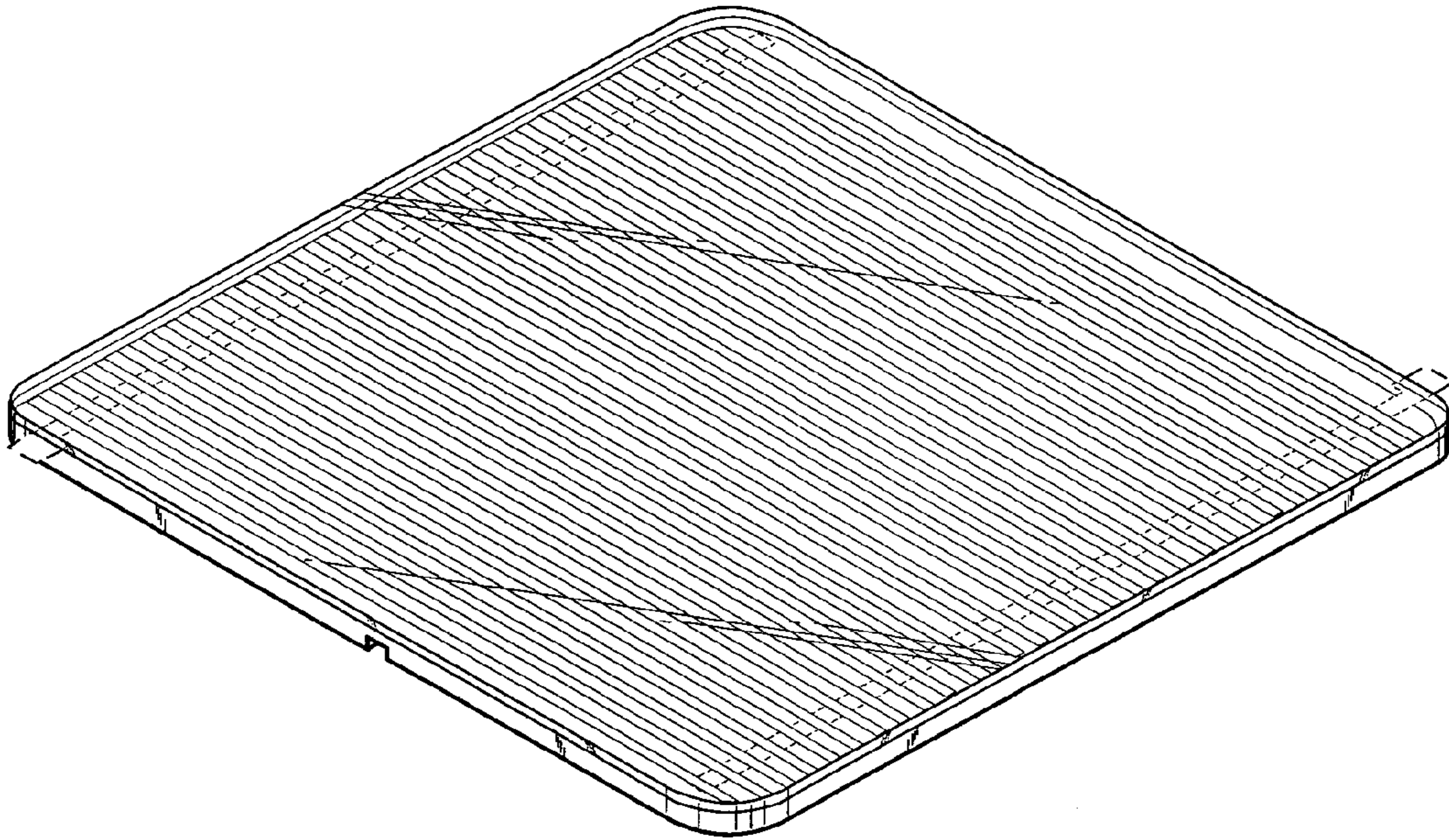


FIG. 8

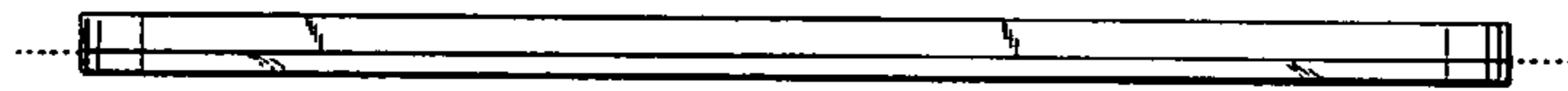


FIG. 9



FIG. 11

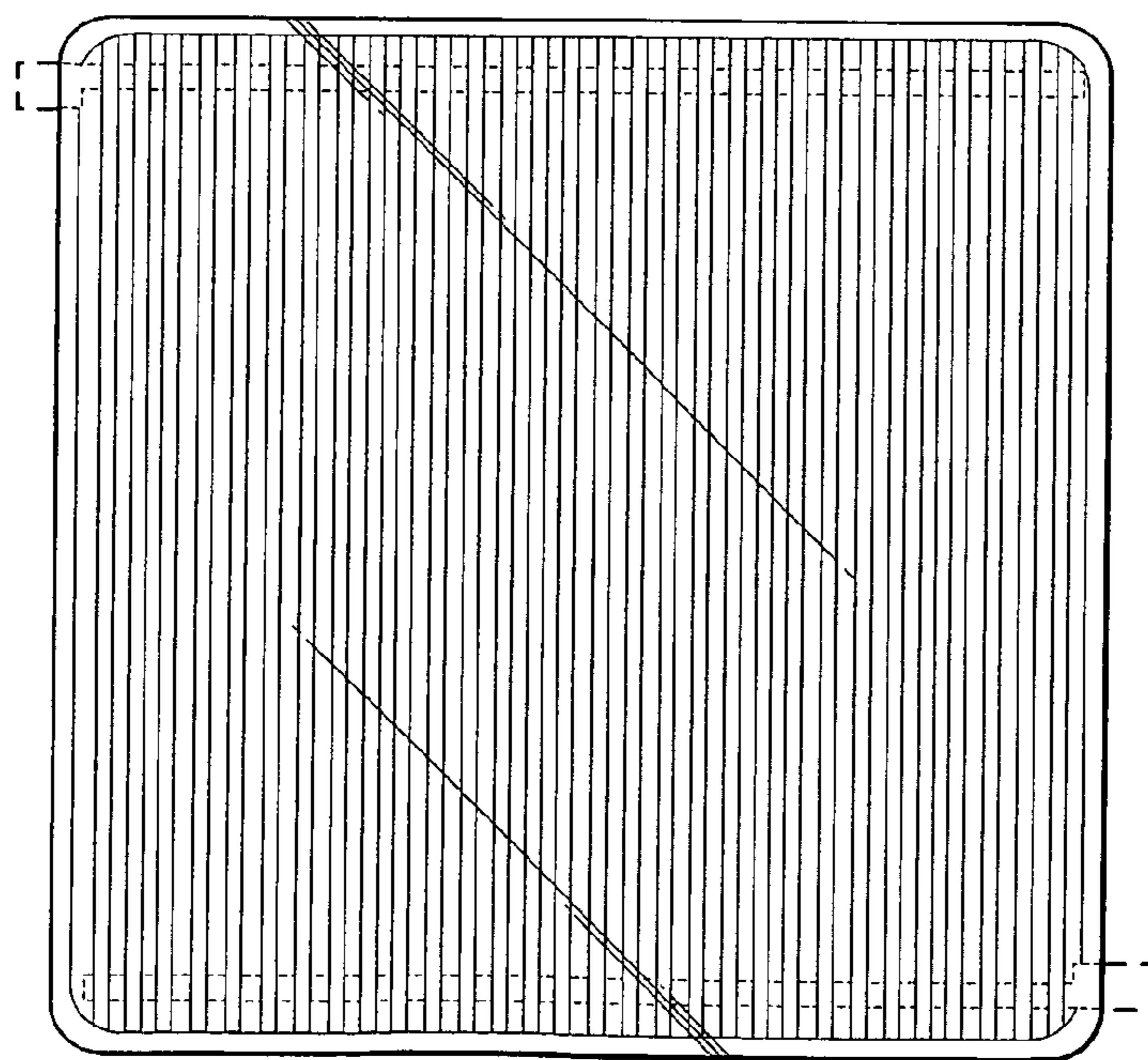


FIG. 10



FIG. 12

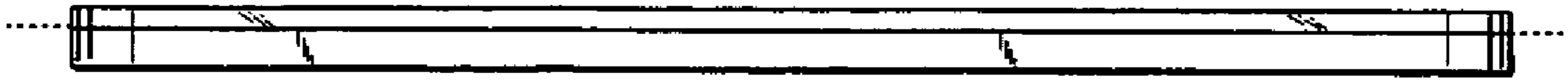


FIG. 13

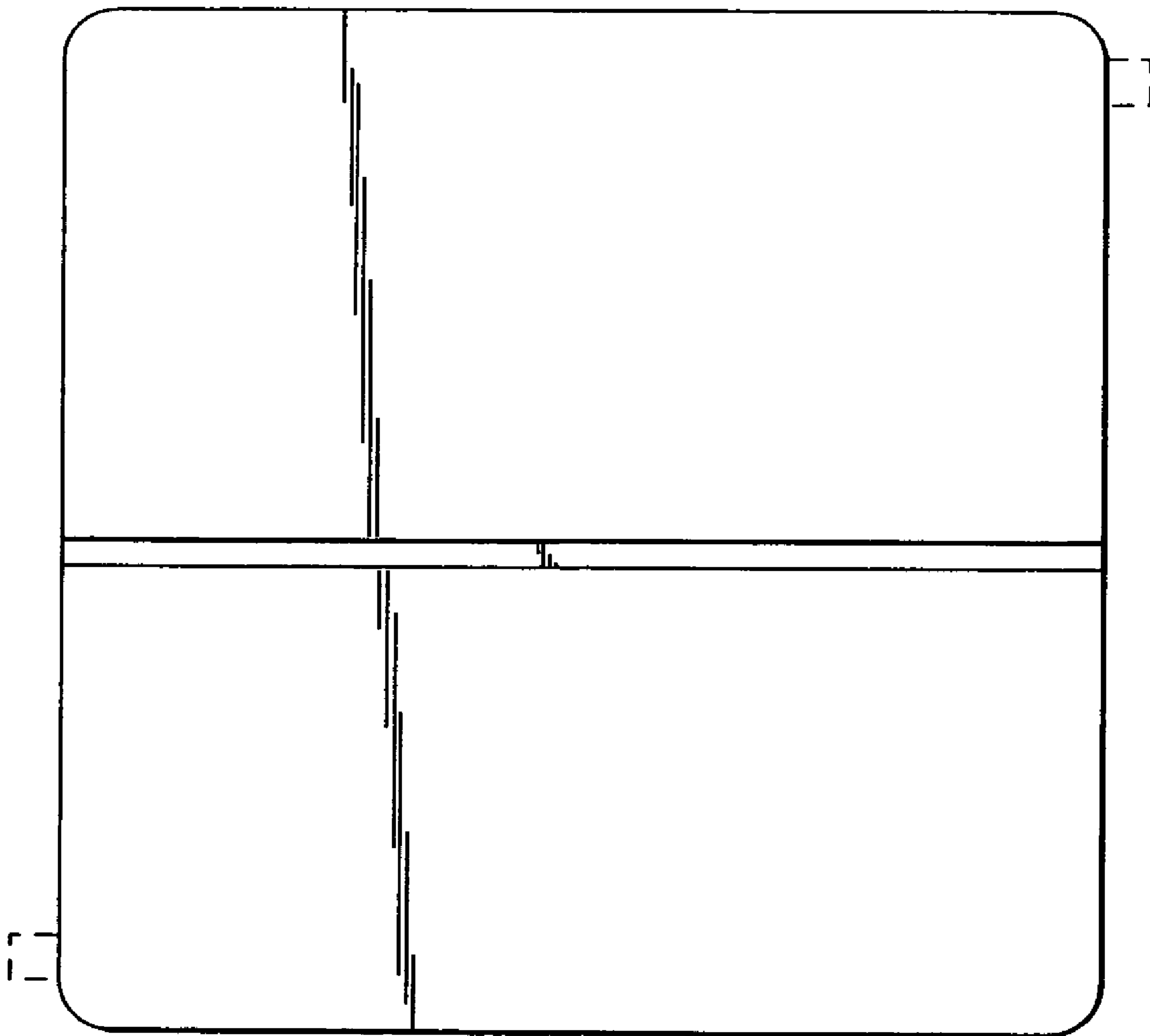


FIG. 14