

US00D521946S

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

(10) **Patent No.:** **US D521,946 S**

(45) **Date of Patent:** **** May 30, 2006**

(54) **LIGHT EMITTING DIODE**

(75) Inventor: **Tomio Inoue**, Kyoto (JP)

(73) Assignee: **Rohm Co., Ltd.**, Kyoto (JP)

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

(21) Appl. No.: **29/228,102**

(22) Filed: **Apr. 19, 2005**

(30) **Foreign Application Priority Data**

Oct. 19, 2004 (JP) 2004-031739

Oct. 19, 2004 (JP) 2004-031740

(51) **LOC (8) Cl.** **13-03**

(52) **U.S. Cl.** **D13/180**

(58) **Field of Classification Search** D13/180;
D26/2; 257/79, 80, 81, 82, 88, 89, 95, 98,
257/99, 100, 433, 434, 666; 313/483, 498,
313/500; 361/820; 362/235, 555, 800; 372/45
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,843,280	A *	6/1989	Lumbard et al.	.....	313/50
D476,961	S *	7/2003	Horiuchi et al.	.....	D13/182
6,730,939	B1 *	5/2004	Eisert et al.	.....	257/98
6,774,406	B1 *	8/2004	Isoda	.....	257/99
6,956,241	B1 *	10/2005	Sugawara et al.	.....	257/79
2002/0056848	A1 *	5/2002	Wirth	.....	257/98
2003/0155580	A1 *	8/2003	Eisert et al.	.....	257/98
2003/0173575	A1 *	9/2003	Eisert et al.	.....	257/95
2004/0061440	A1 *	4/2004	Imai et al.	.....	313/512
2004/0070338	A1 *	4/2004	Noguchi et al.	.....	313/512
2005/0173721	A1 *	8/2005	Isoda	.....	257/99

2005/0253157 A1 * 11/2005 Ohashi et al. 257/95

* cited by examiner

Primary Examiner—Ian Simmons

Assistant Examiner—Selina Sikder

(74) *Attorney, Agent, or Firm*—Hambre, Schumann,
Mueller & Larson, P.C.

(57) **CLAIM**

I claim the ornamental design for a light emitting diode, as shown.

DESCRIPTION

FIG. 1 is a front view of a light emitting diode showing a first embodiment of my new design, the rear view being identical to the front view;

FIG. 2 is a top plan view of the first embodiment;

FIG. 3 is a right side view of the first embodiment, the left side view being identical to the right side view;

FIG. 4 is a bottom view of the first embodiment;

FIG. 5 is a sectional view of the first embodiment taken along 5—5 lines in FIG. 2;

FIG. 6 is a perspective view of the first embodiment;

FIG. 7 is a front view of a light emitting diode showing a second embodiment of my new design, the rear view being identical to the front view;

FIG. 8 is a top plan view of the second embodiment;

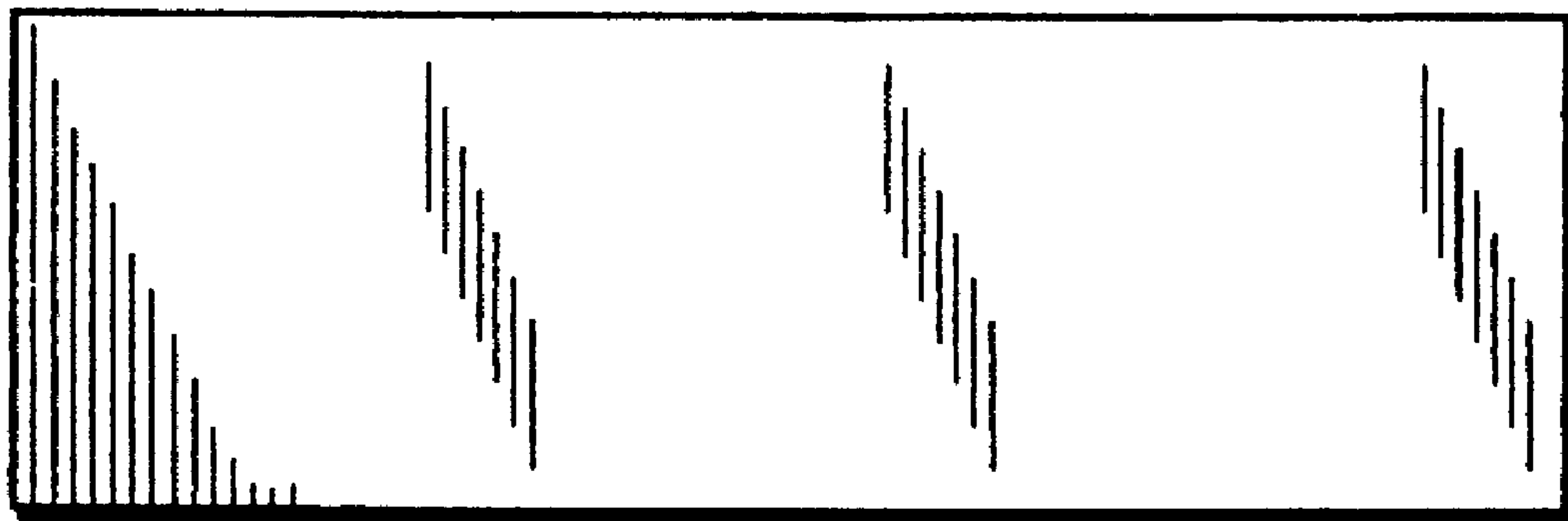
FIG. 9 is a right side view of the second embodiment, the left side view being identical to the right side view;

FIG. 10 is a bottom view of the second embodiment;

FIG. 11 is a sectional view of the second embodiment taken along 11—11 lines in FIG. 8; and,

FIG. 12 is a perspective view of the second embodiment.

1 Claim, 4 Drawing Sheets



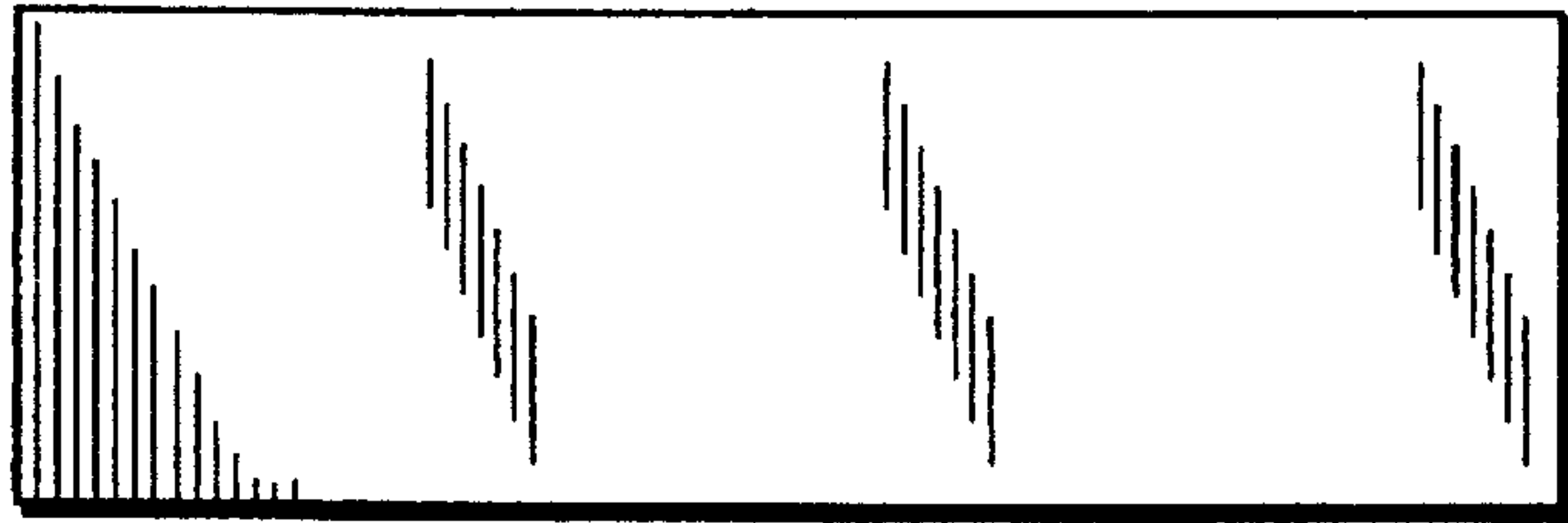


FIG.1

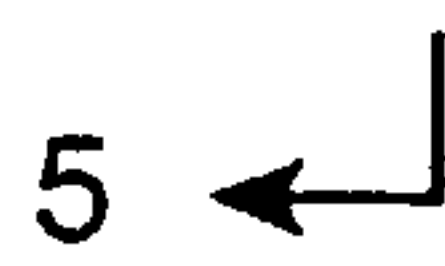
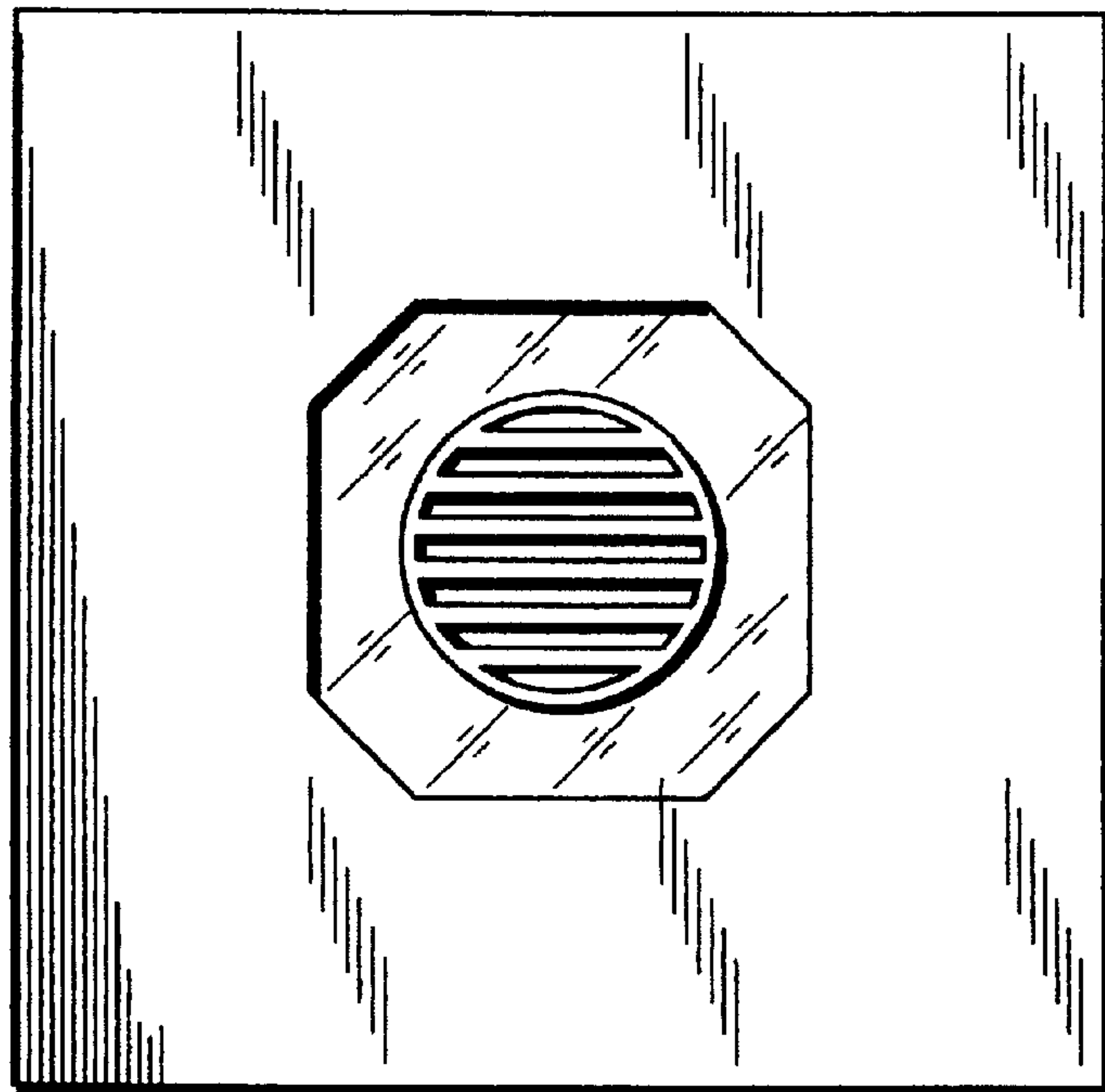
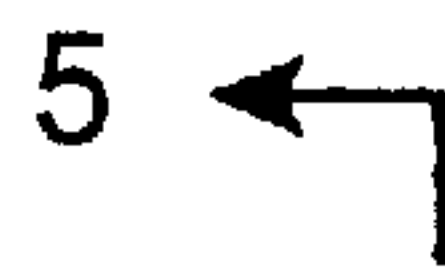


FIG.2

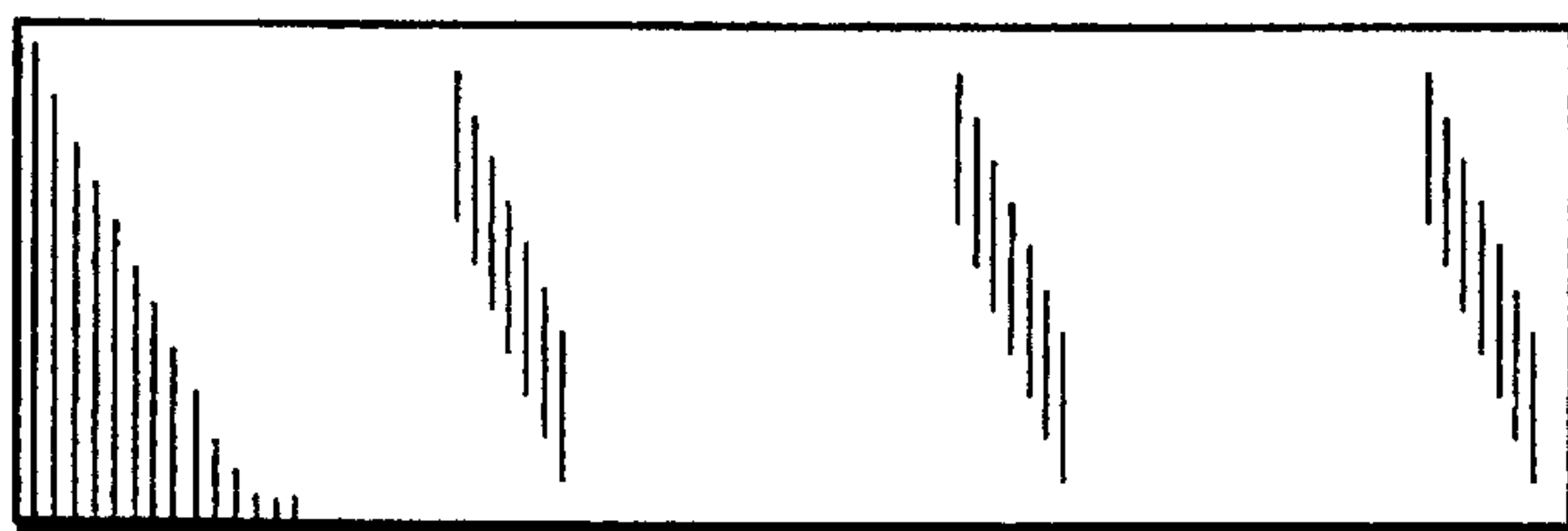


FIG.3

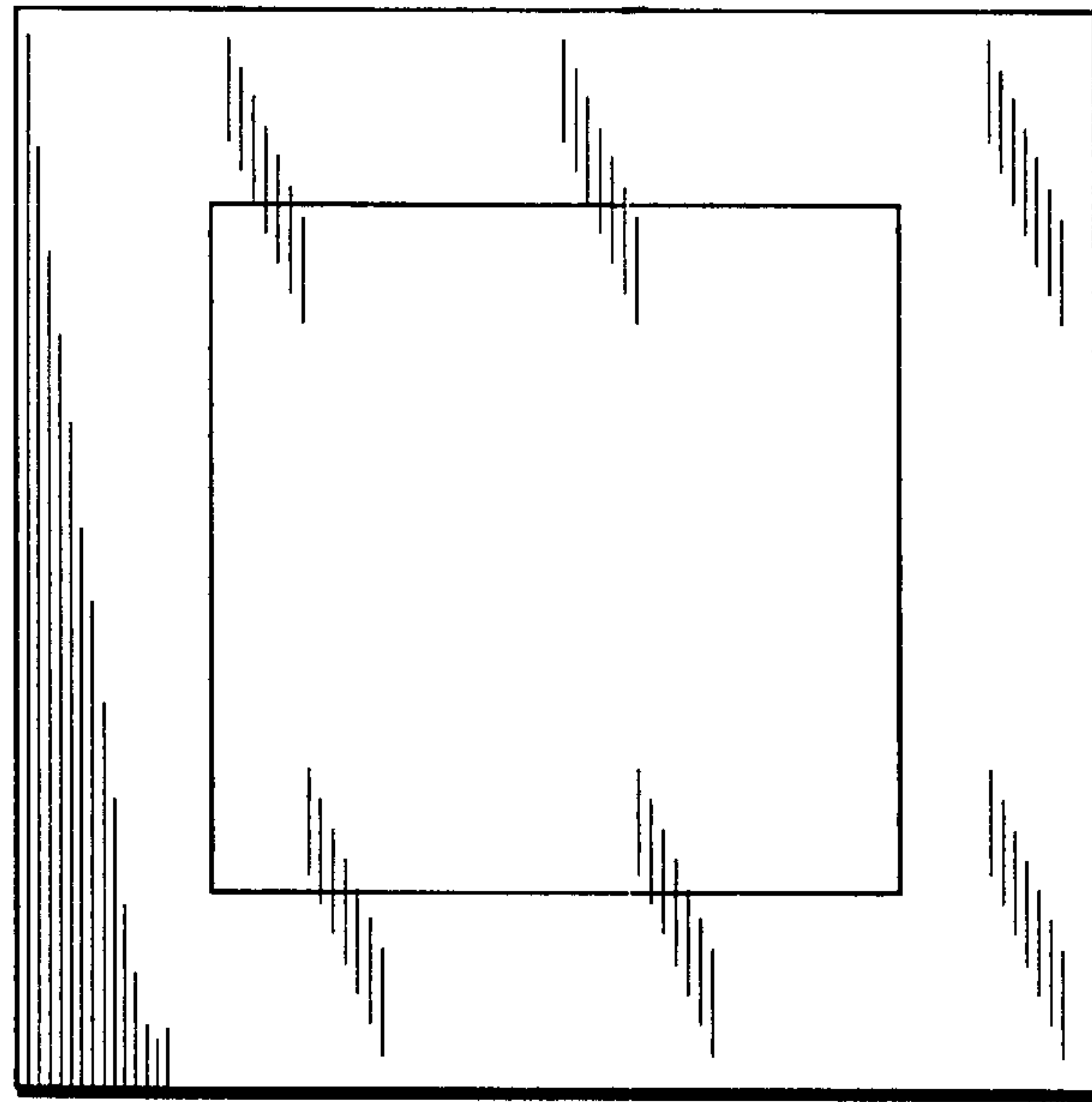


FIG. 4

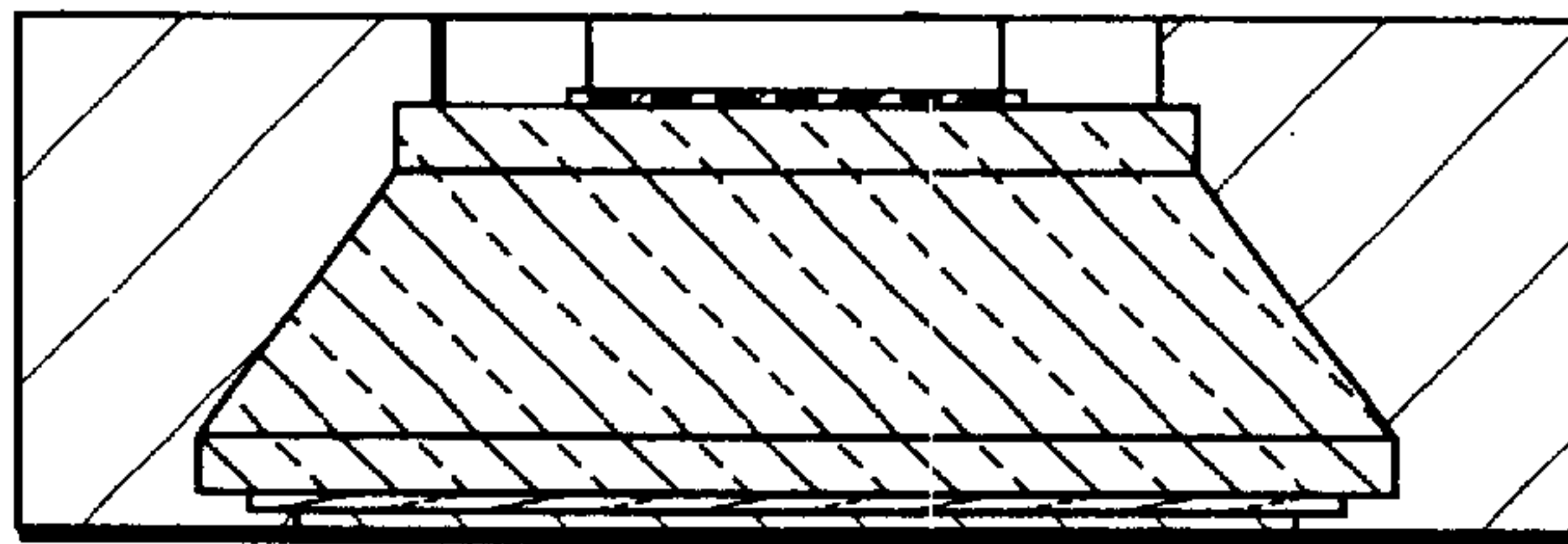


FIG. 5

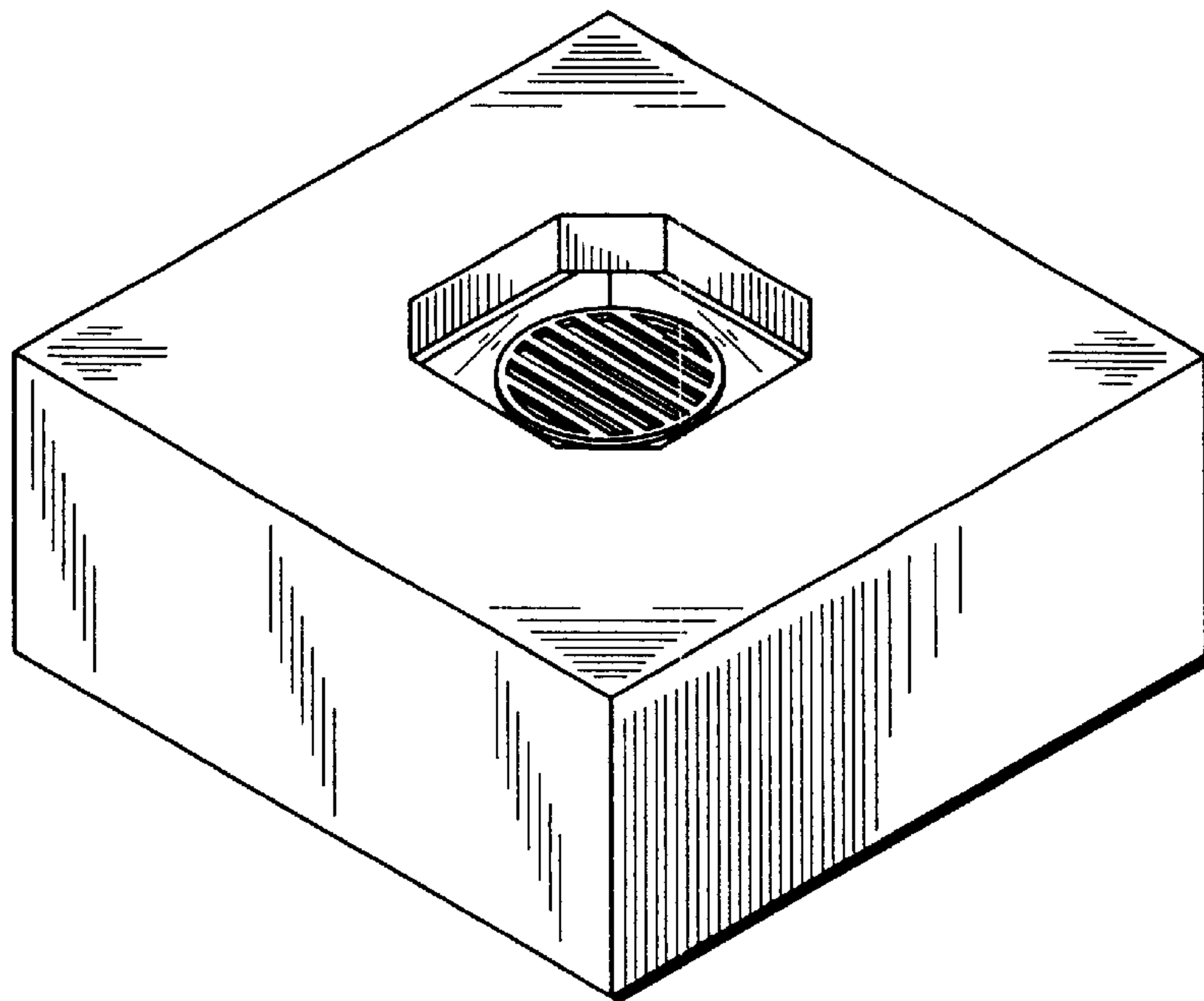


FIG. 6

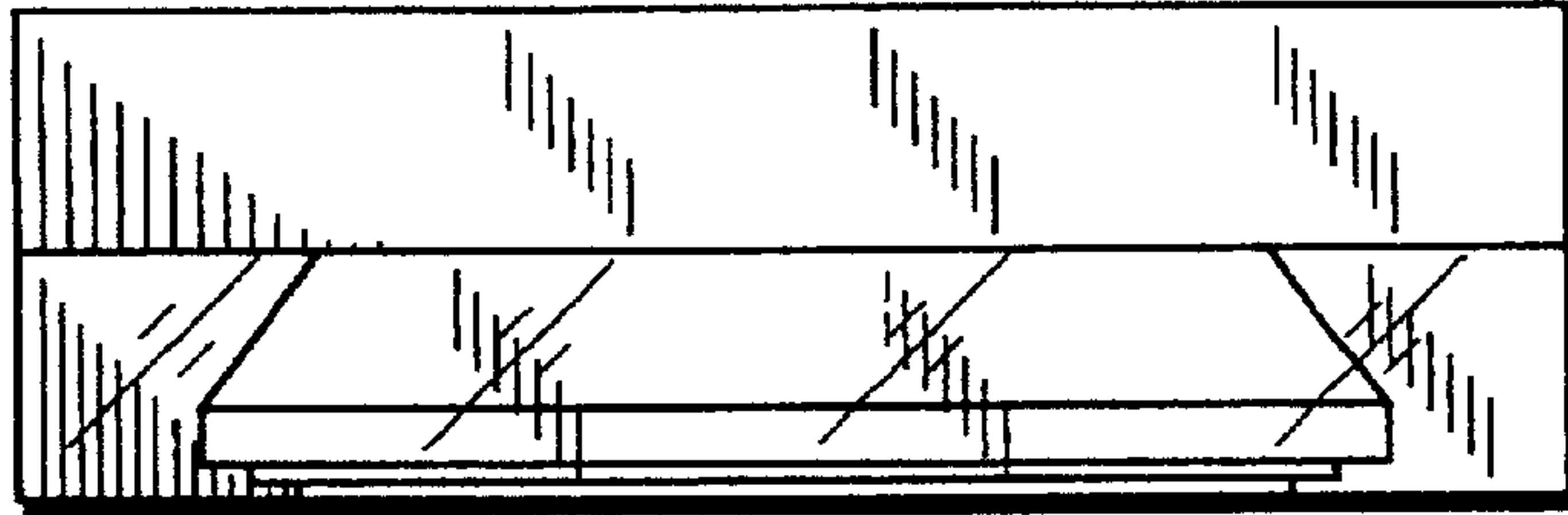


FIG. 7

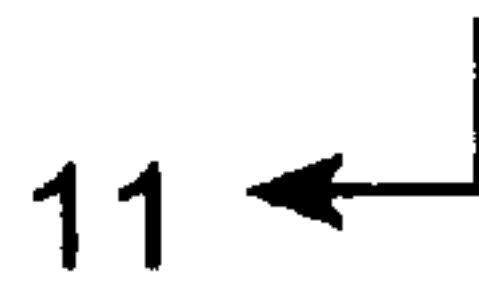
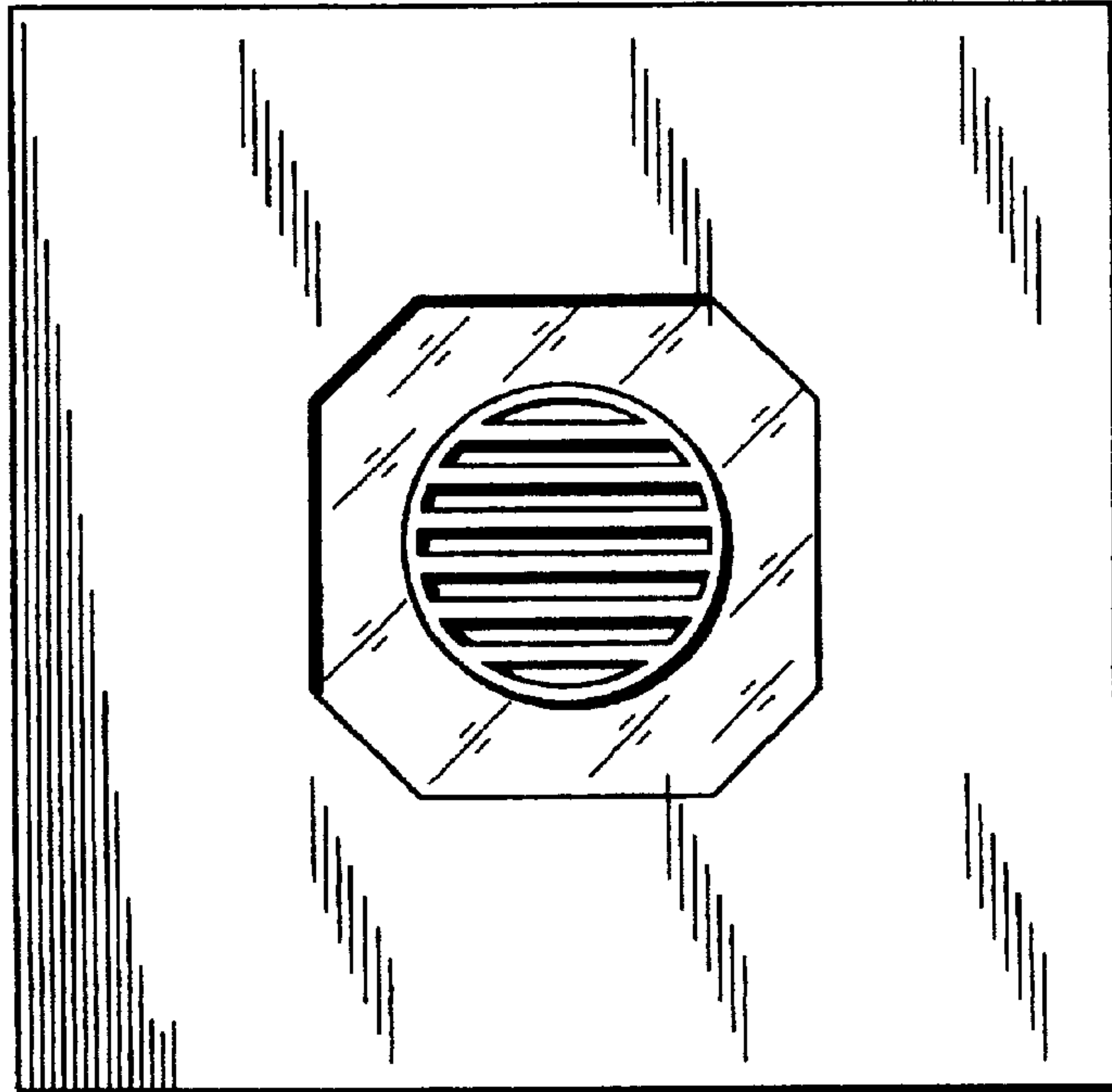
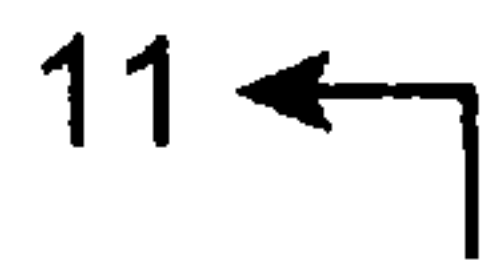


FIG. 8

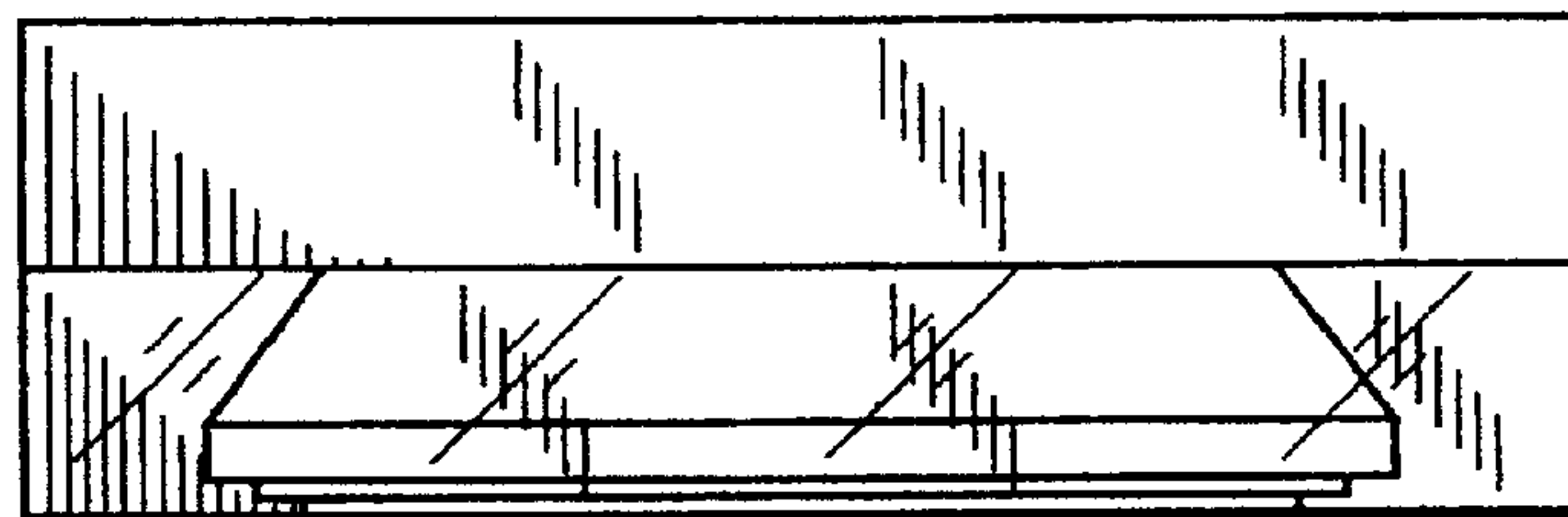


FIG. 9

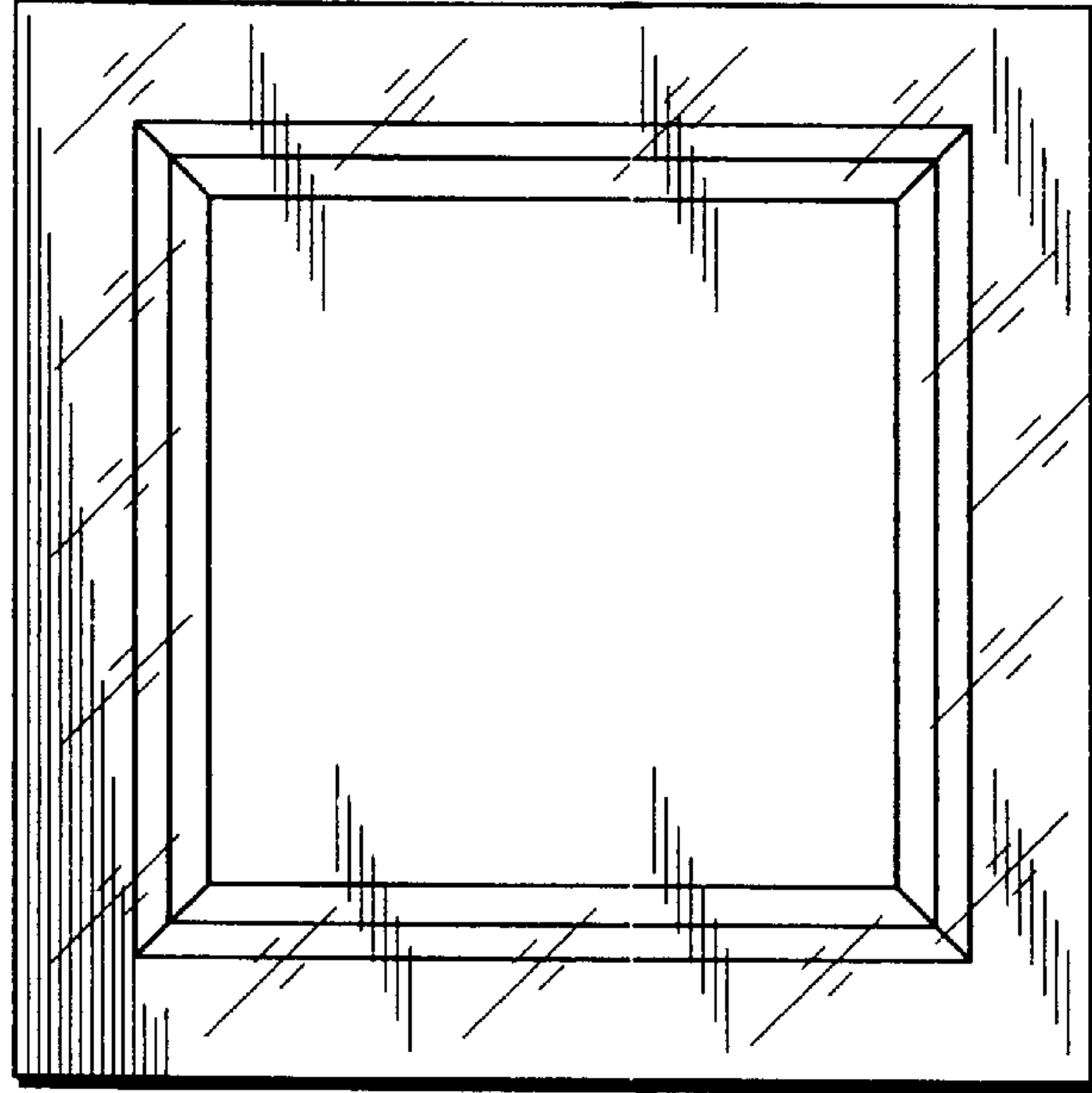


FIG. 10

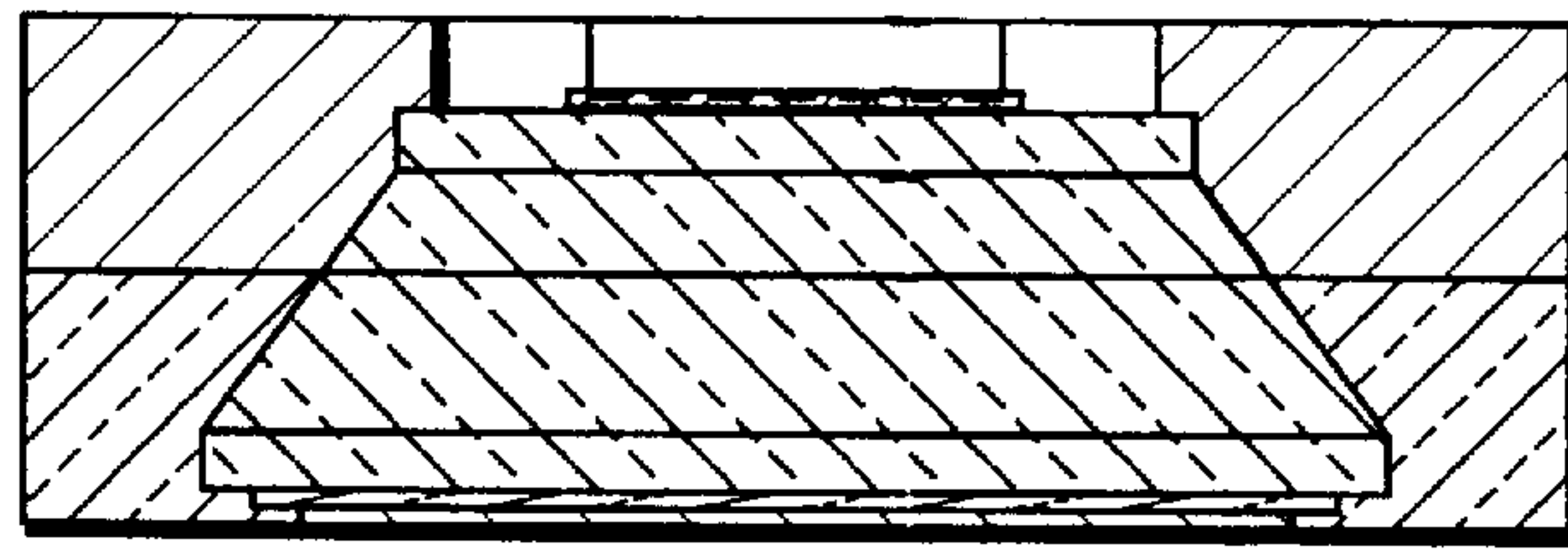


FIG. 11

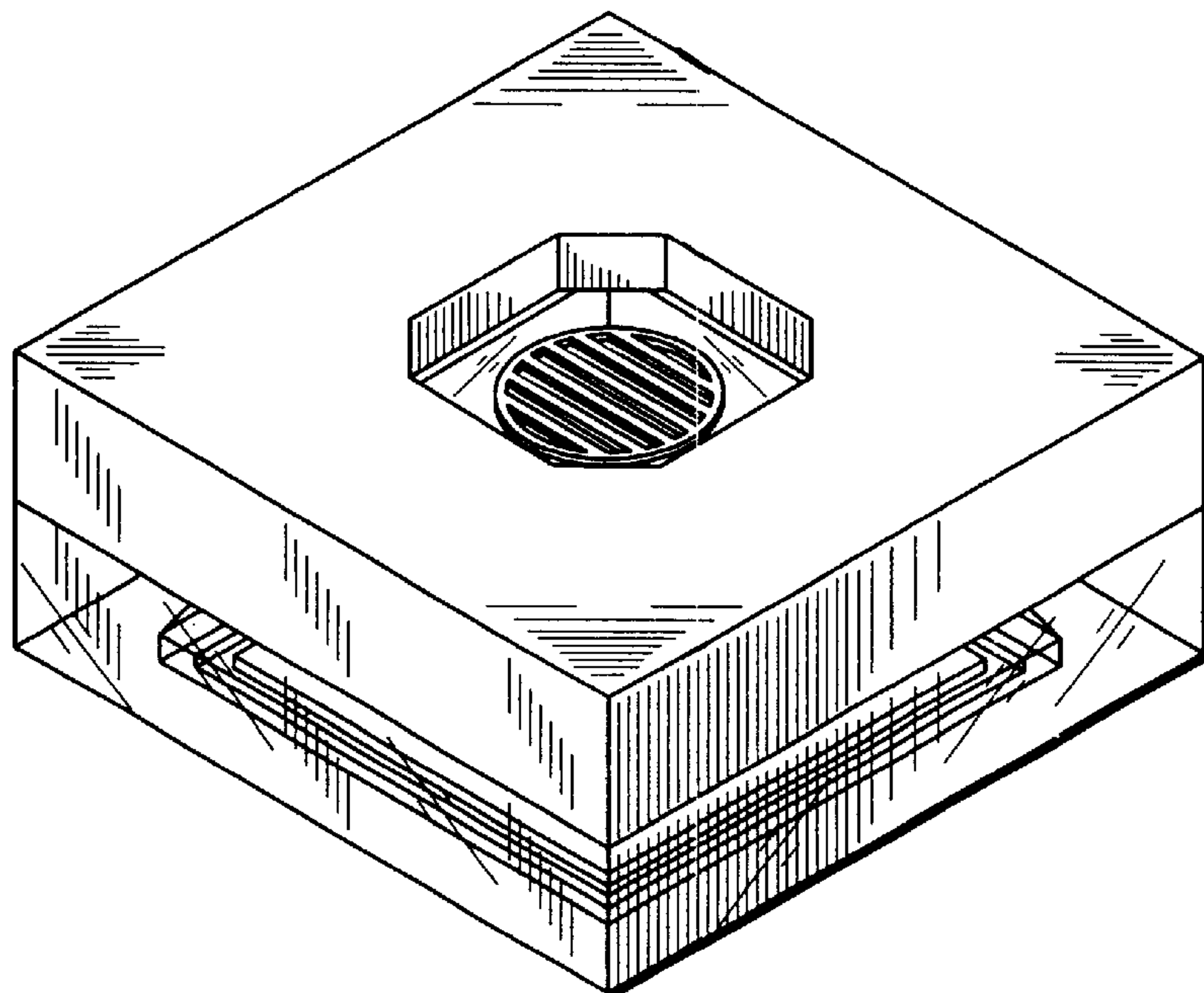


FIG. 12