



US00D615933S

(12) **United States Design Patent**
Ono et al.

(10) **Patent No.:** **US D615,933 S**

(45) **Date of Patent:** **** May 18, 2010**

(54) **LIGHT EMITTING DIODE**

(75) Inventors: **Masato Ono**, Kanagawa (JP); **Hiroshi Miyairi**, Kanagawa (JP); **Masaru Kato**, Kanagawa (JP); **Kazunori Watanabe**, Kanagawa (JP)

(73) Assignee: **Nichia Corporation**, Anan-shi (JP)

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

(21) Appl. No.: **29/334,779**

(22) Filed: **Apr. 1, 2009**

Related U.S. Application Data

(62) Division of application No. 29/318,361, filed on May 19, 2008, now Pat. No. Des. 592,159, which is a division of application No. 29/266,467, filed on Sep. 22, 2006, now Pat. No. Des. 572,670.

(30) **Foreign Application Priority Data**

Mar. 30, 2006	(JP)	.....	2006-008059
Mar. 30, 2006	(JP)	.....	2006-008061
Mar. 30, 2006	(JP)	.....	2006-008067
Mar. 30, 2006	(JP)	.....	2006-008068
Mar. 30, 2006	(JP)	.....	2006-008069
Mar. 30, 2006	(JP)	.....	2006-008070
Mar. 30, 2006	(JP)	.....	2006-008071
Mar. 30, 2006	(JP)	.....	2006-008072
Mar. 30, 2006	(JP)	.....	2006-008073
Mar. 30, 2006	(JP)	.....	2006-008074
Mar. 30, 2006	(JP)	.....	2006-008075

(51) **LOC (9) Cl.** **13-03**

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

(58) **Field of Classification Search** D13/180;
D26/2; 257/79, 80, 81, 88, 89, 95, 98, 99,
257/100; 313/483, 498, 500; 362/555, 800

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,429,464 B1 8/2002 Lin
6,720,581 B2 4/2004 Ozawa

(Continued)

Primary Examiner—Selina Sikder

(74) *Attorney, Agent, or Firm*—Global IP Counselors, LLP

(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front top side perspective view of a light emitting diode in accordance with my new design;

FIG. 2 is a top plan view of the light emitting diode in accordance with my new design;

FIG. 3 is a bottom plan view of the light emitting diode in accordance with my new design;

FIG. 4 is a front elevational view of the light emitting diode in accordance with my new design;

FIG. 5 is a rear elevational view of the light emitting diode in accordance with my new design;

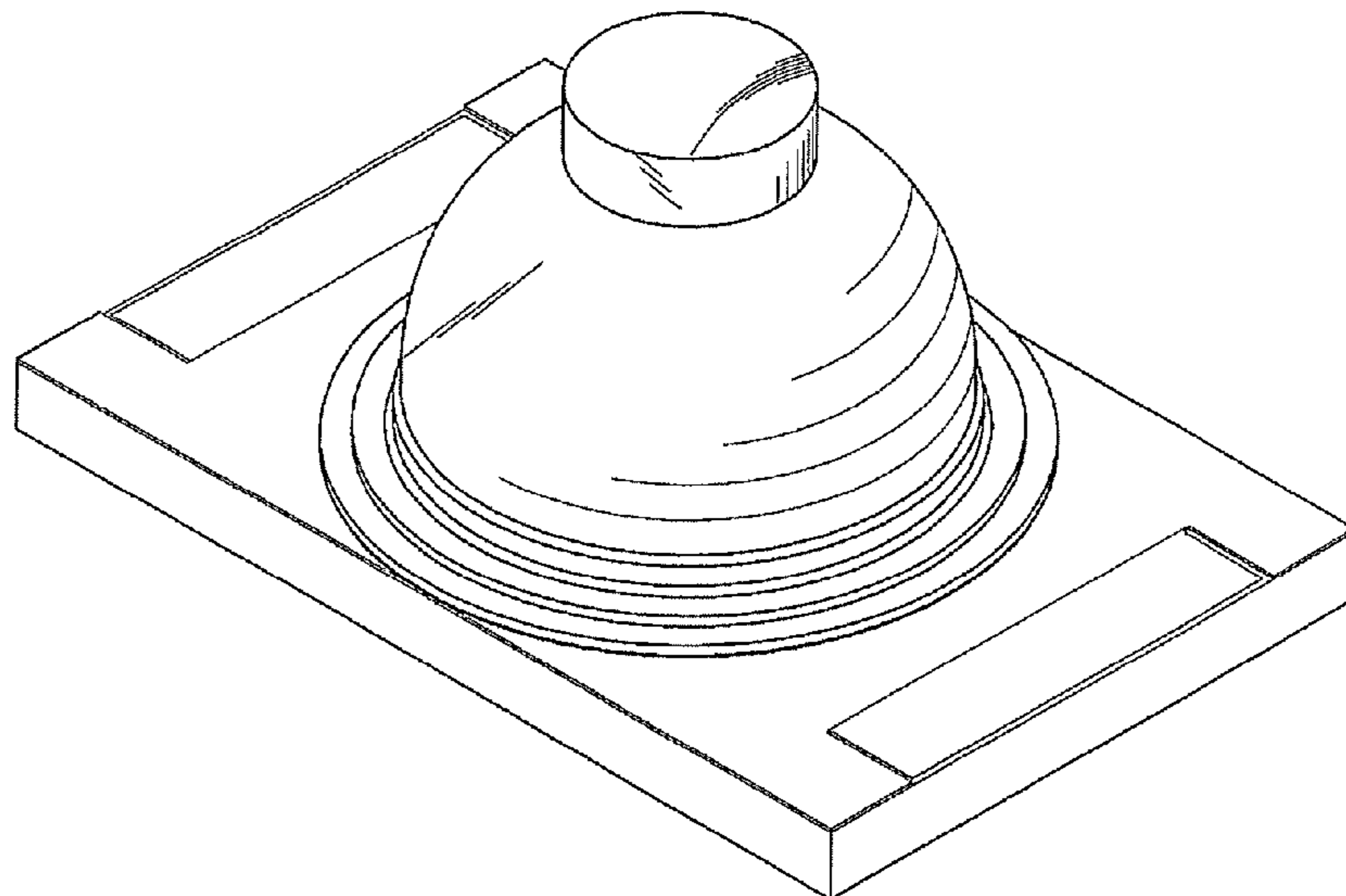
FIG. 6 is a left side end elevational view of the light emitting diode in accordance with my new design; and,

FIG. 7 is a right side end elevational view of the light emitting diode in accordance with my new design.

The opaque line shading illustrates a translucent portion of the light emitting diode.

An exterior surface of the transparent portion of the light emitting diode in accordance with the embodiment illustrated in FIGS. 1 to 7 is symmetrical about a center axis arranged vertically in FIG. 1.

1 Claim, 4 Drawing Sheets



US D615,933 S

Page 2

U.S. PATENT DOCUMENTS			
2004/0245591	A1*	12/2004	Wang et al. 257/433
2004/0257817	A1	12/2004	Philipp
2005/0242708	A1	11/2005	Keong et al.
2006/0001361	A1	1/2006	Imai et al.
2006/0220049	A1	10/2006	Flaherty et al.
2006/0273338	A1	12/2006	Lee et al.
2006/0284209	A1	12/2006	Kim et al.
2006/0284305	A1	12/2006	Yen et al.
2006/0291203	A1	12/2006	Anandan
* cited by examiner			
D491,898	S	6/2004	Kamada
D524,260	S	7/2006	Ishizaka et al.
7,224,000	B2	5/2007	Aanegola et al.
7,262,438	B2	8/2007	Mok et al.
D572,670	S	7/2008	Ono et al.
D572,671	S	7/2008	Ono et al.
D592,159	S *	5/2009	Ono et al. D13/180
D592,162	S *	5/2009	Sugimoto et al. D13/180
2004/0126913	A1	7/2004	Loh

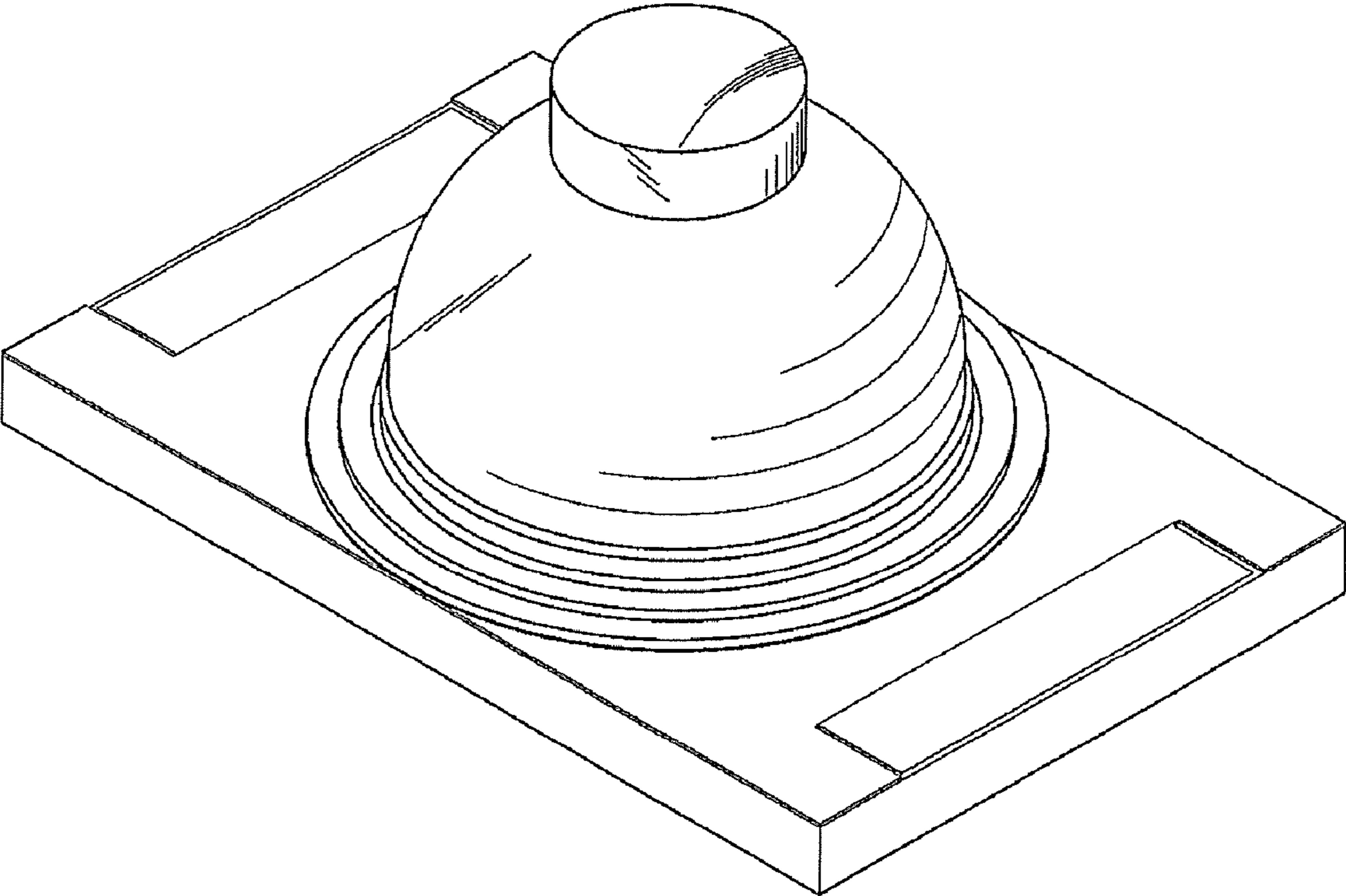


FIG. 1

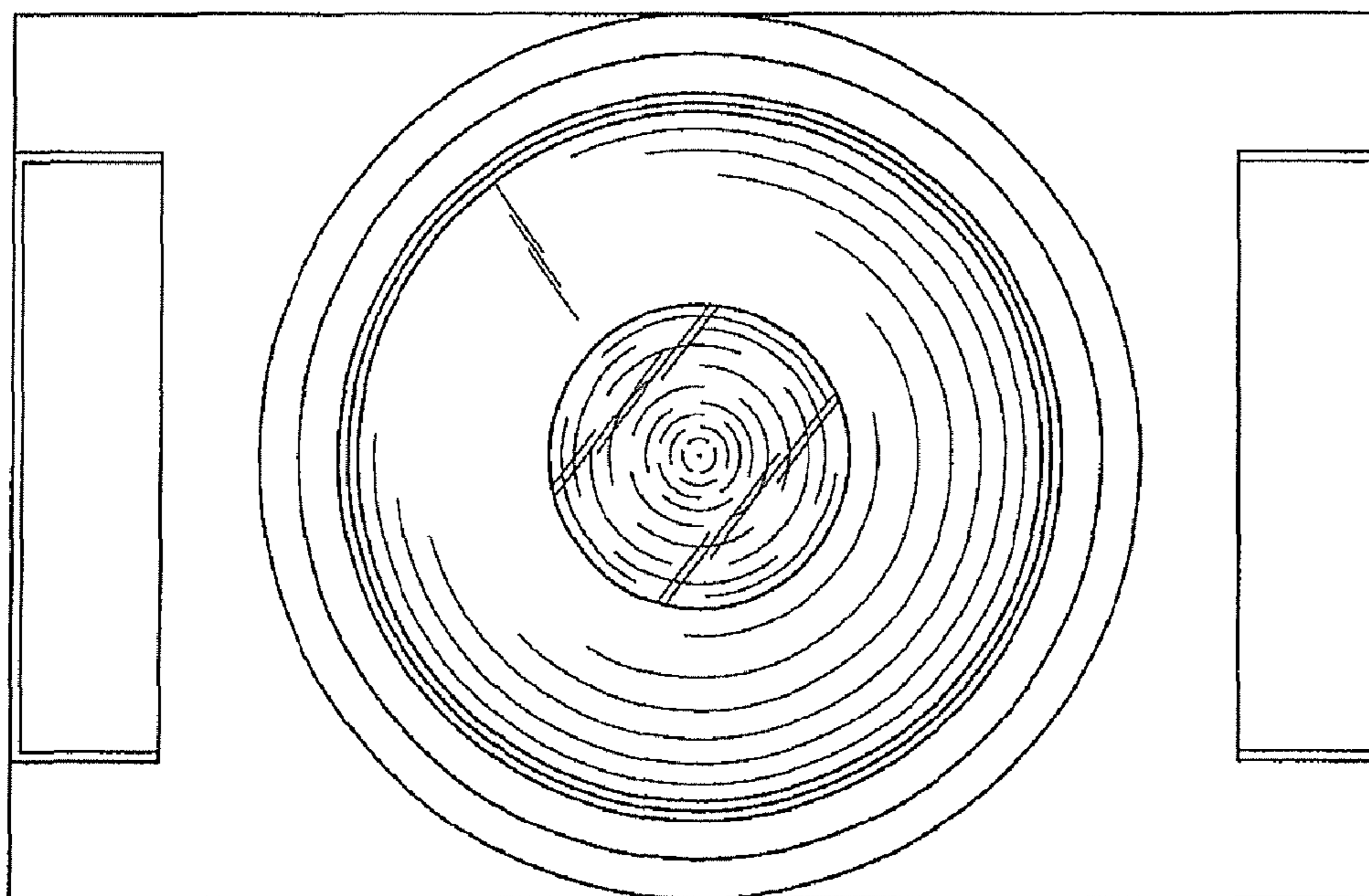


FIG. 2

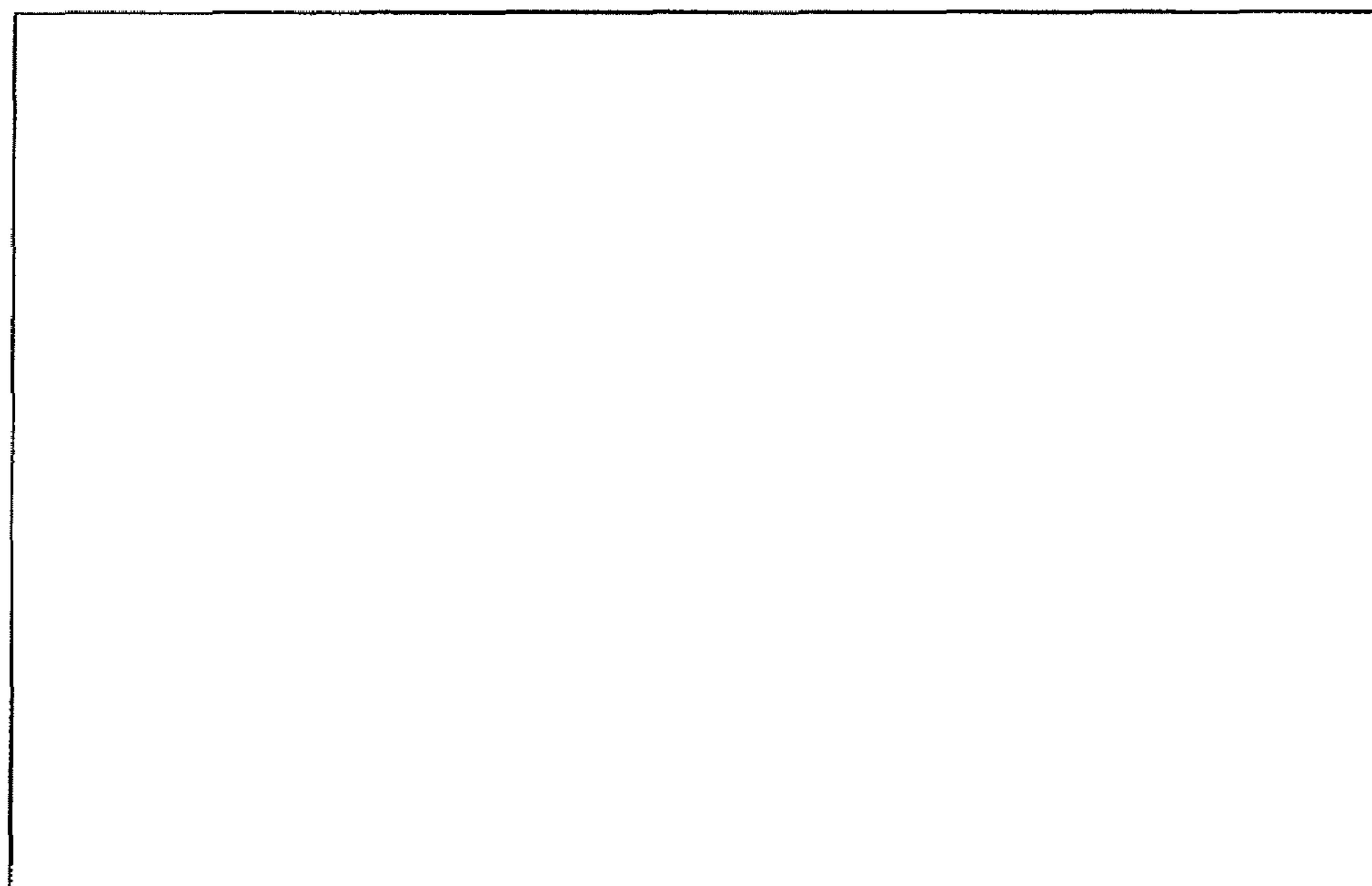


FIG. 3

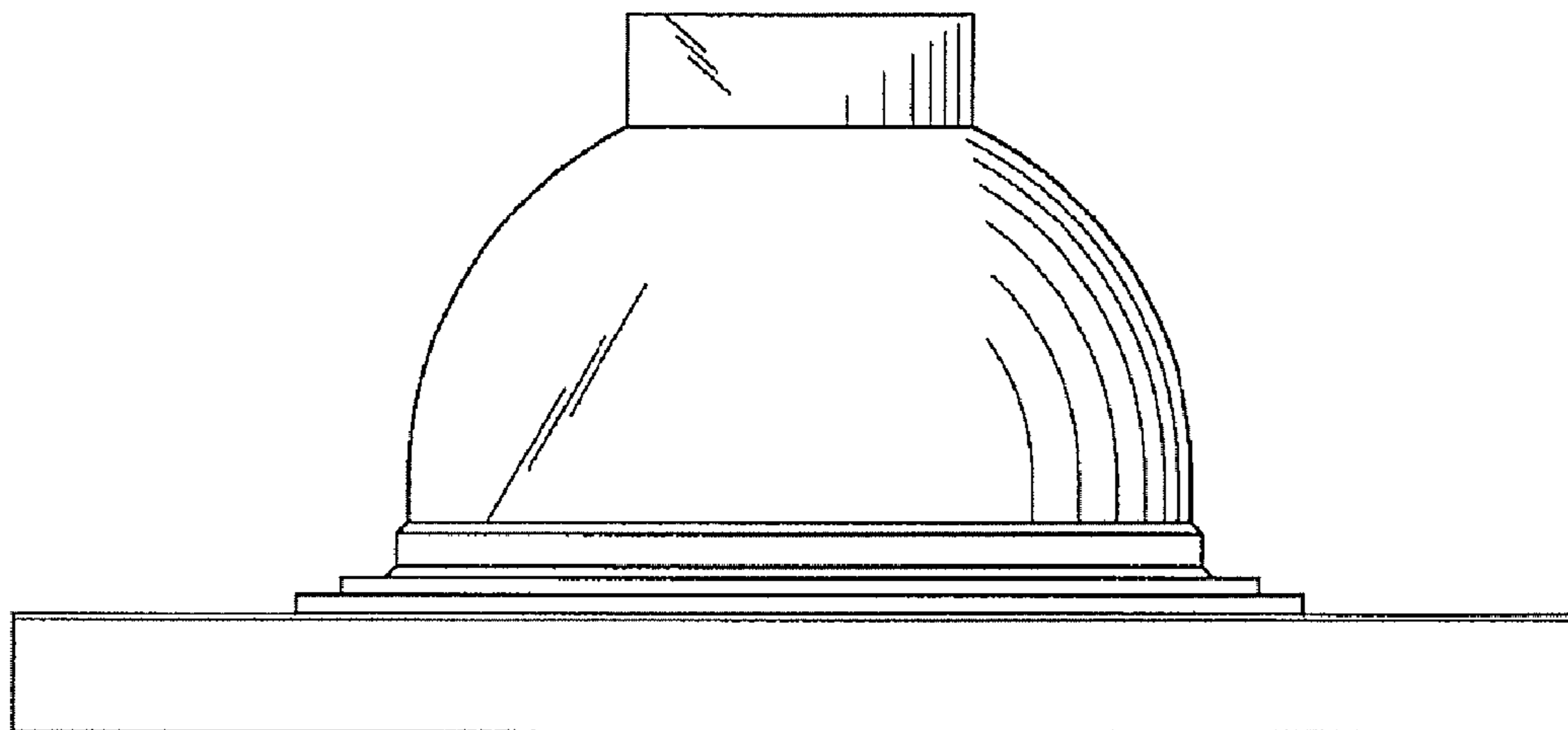


FIG. 4

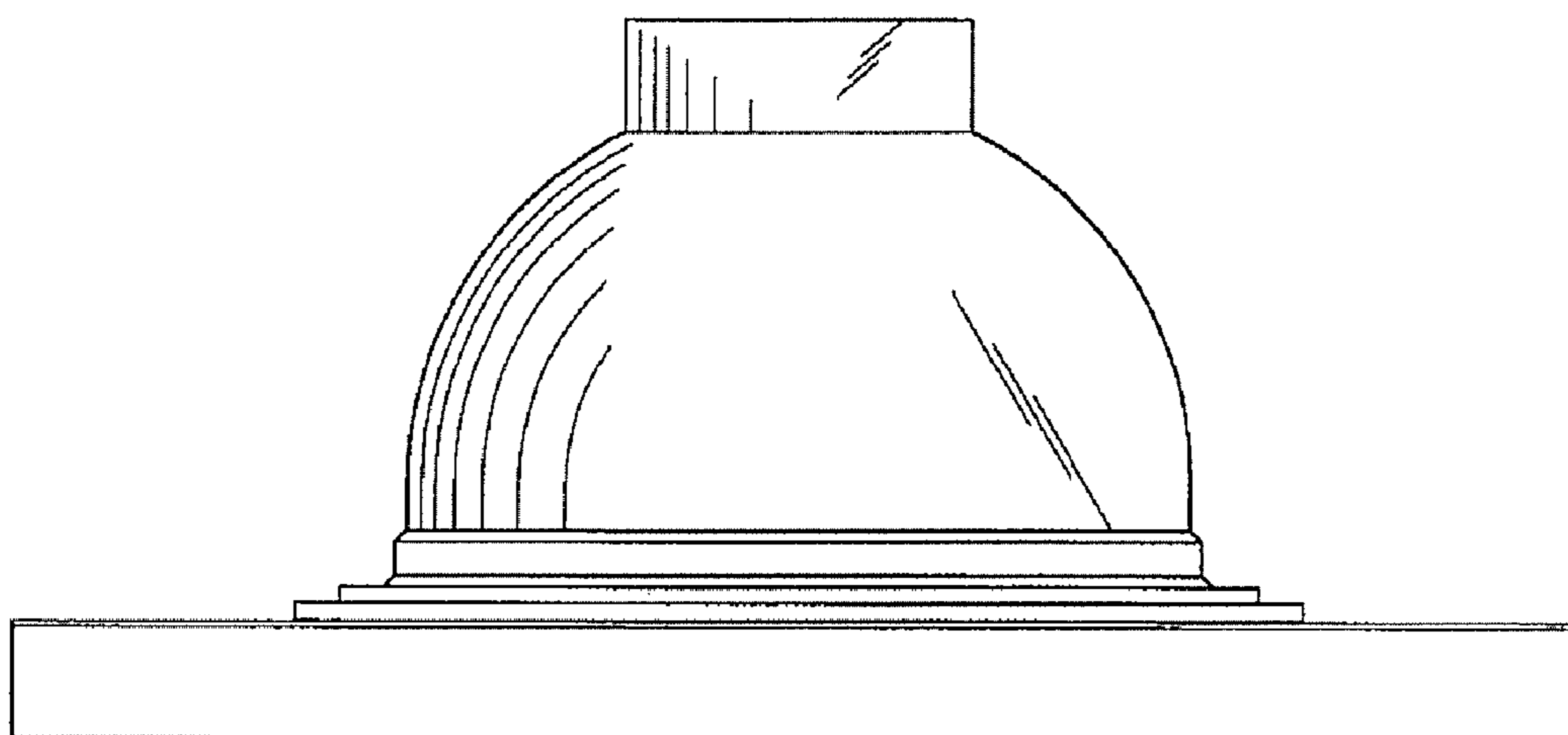


FIG. 5

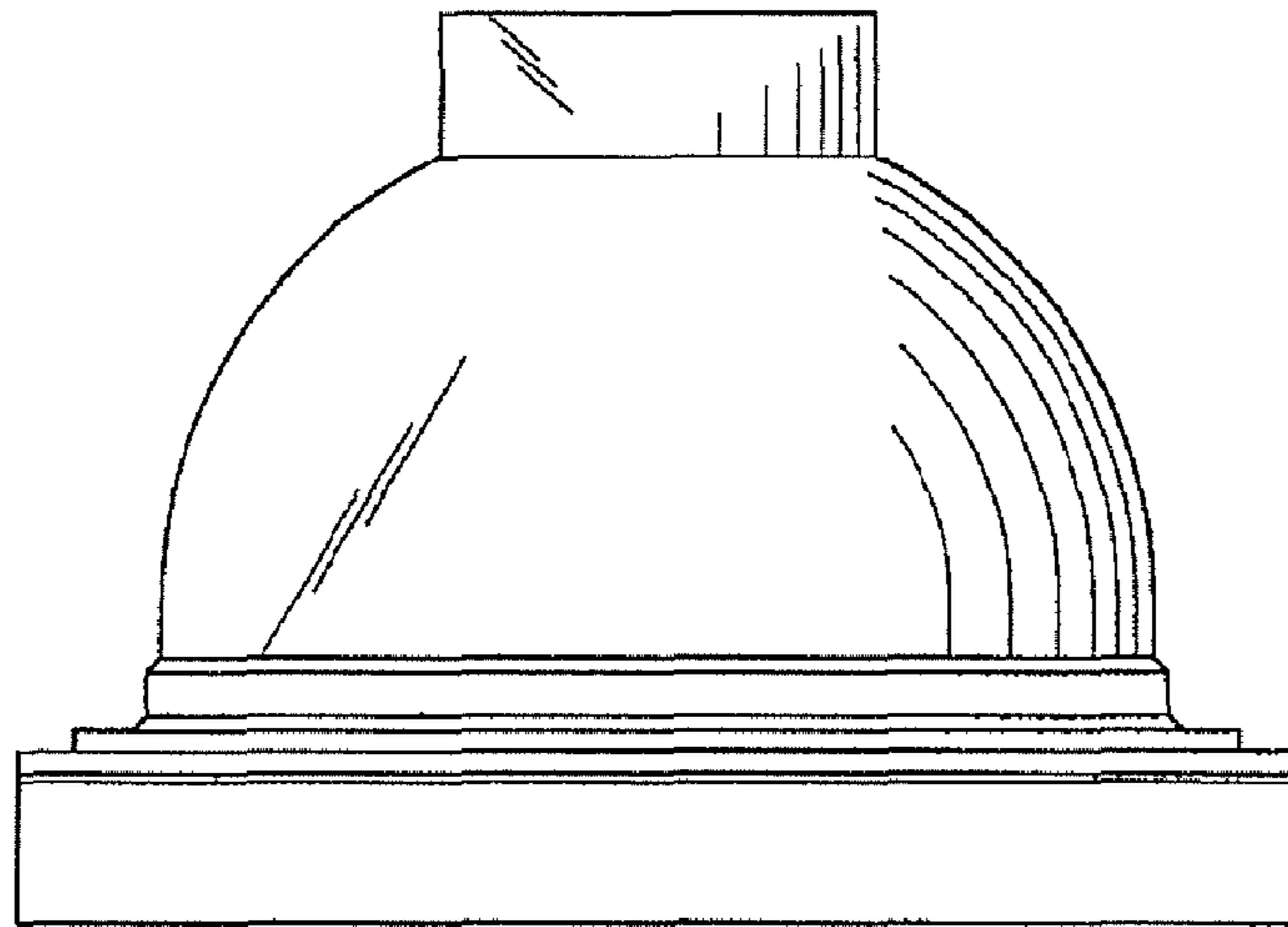


FIG. 6

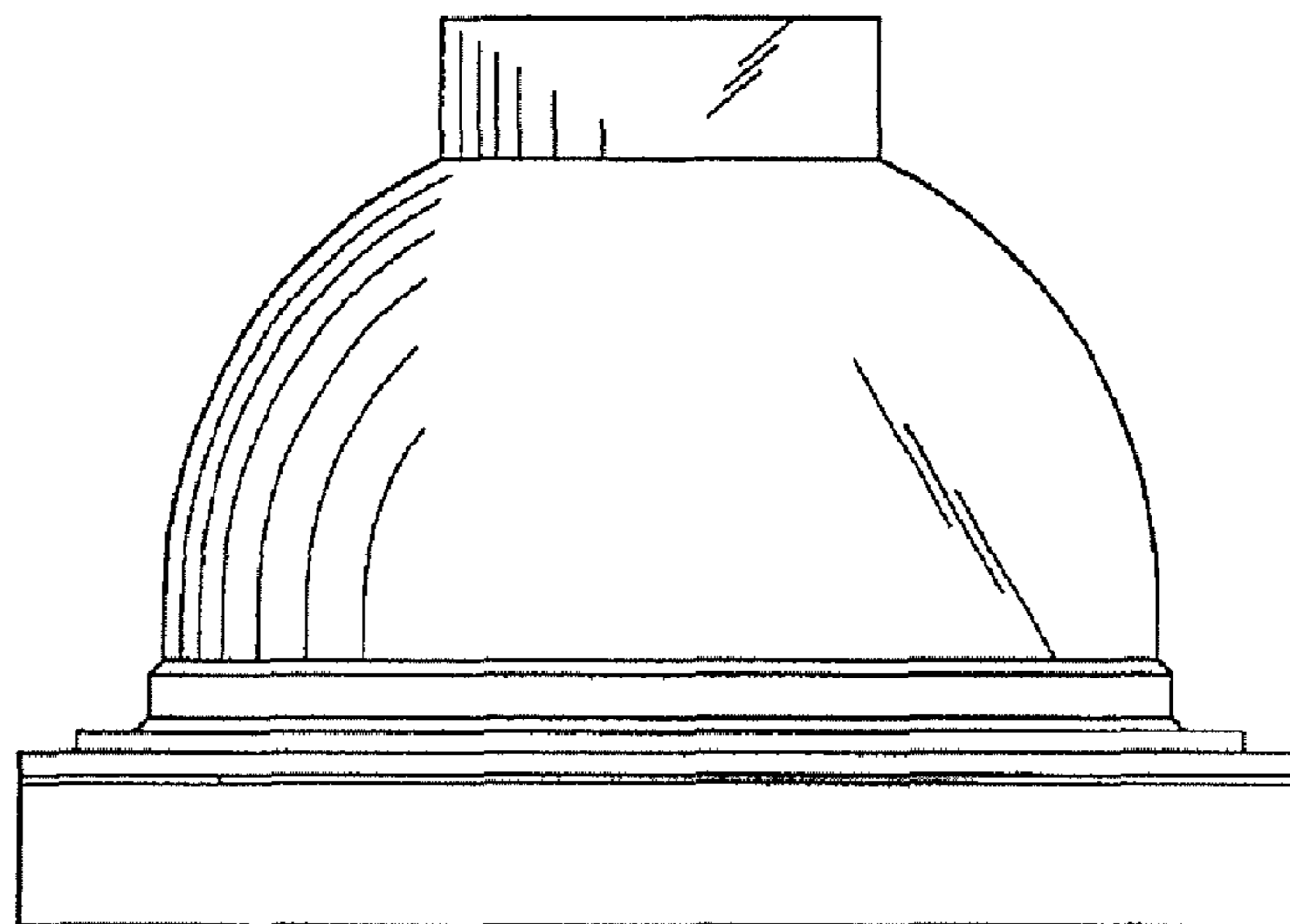


FIG. 7