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

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(54) **LIGHT-EMITTING DIODE**

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

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

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D26/2; 257/79, 80, 81, 88, 89, 95, 98, 99,  
257/100, E33.058; 313/483, 498, 500; 362/555,  
362/800  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

6,376,902	B1 *	4/2002	Arndt	.....	257/678
D471,166	S *	3/2003	Oshio et al.	.....	D13/182
6,686,609	B1 *	2/2004	Sung	.....	257/100
D488,137	S *	4/2004	Kamada	.....	D13/182
D491,899	S *	6/2004	Yagi	.....	D13/180
D494,550	S *	8/2004	Hoshiba	.....	D13/180
D495,304	S *	8/2004	Kim et al.	.....	D13/180
D505,398	S *	5/2005	Nakashima	.....	D13/180
D510,913	S *	10/2005	Sumitani	.....	D13/180
7,102,213	B2 *	9/2006	Sorg	.....	257/667
7,176,612	B2 *	2/2007	Omoto et al.	.....	313/487
D568,261	S *	5/2008	Lee et al.	.....	D13/180
7,385,227	B2 *	6/2008	Mok et al.	.....	257/98
D576,966	S *	9/2008	Ng et al.	.....	D13/180
7,514,724	B2 *	4/2009	Ng et al.	.....	257/99

7,547,583	B2 *	6/2009	Ng et al.	.....	438/123
D599,749	S *	9/2009	Bando	.....	D13/180
D602,451	S *	10/2009	Gielen	.....	D13/180
7,635,915	B2 *	12/2009	Xie et al.	.....	257/692
D611,011	S *	3/2010	Ariizumi	.....	D13/180
7,675,145	B2 *	3/2010	Wong et al.	.....	257/676
7,696,526	B2 *	4/2010	Tay et al.	.....	257/99
7,719,024	B2 *	5/2010	Bando	.....	257/99
D621,800	S *	8/2010	Hsieh	.....	D13/180

(Continued)

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(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a perspective view of a light-emitting diode showing our new design.

FIG. 2 is a front elevational view of the light-emitting diode of FIG. 1.

FIG. 3 is a rear elevational view of the light-emitting diode of FIG. 1.

FIG. 4 is a left-side, elevational view of the light-emitting diode of FIG. 1.

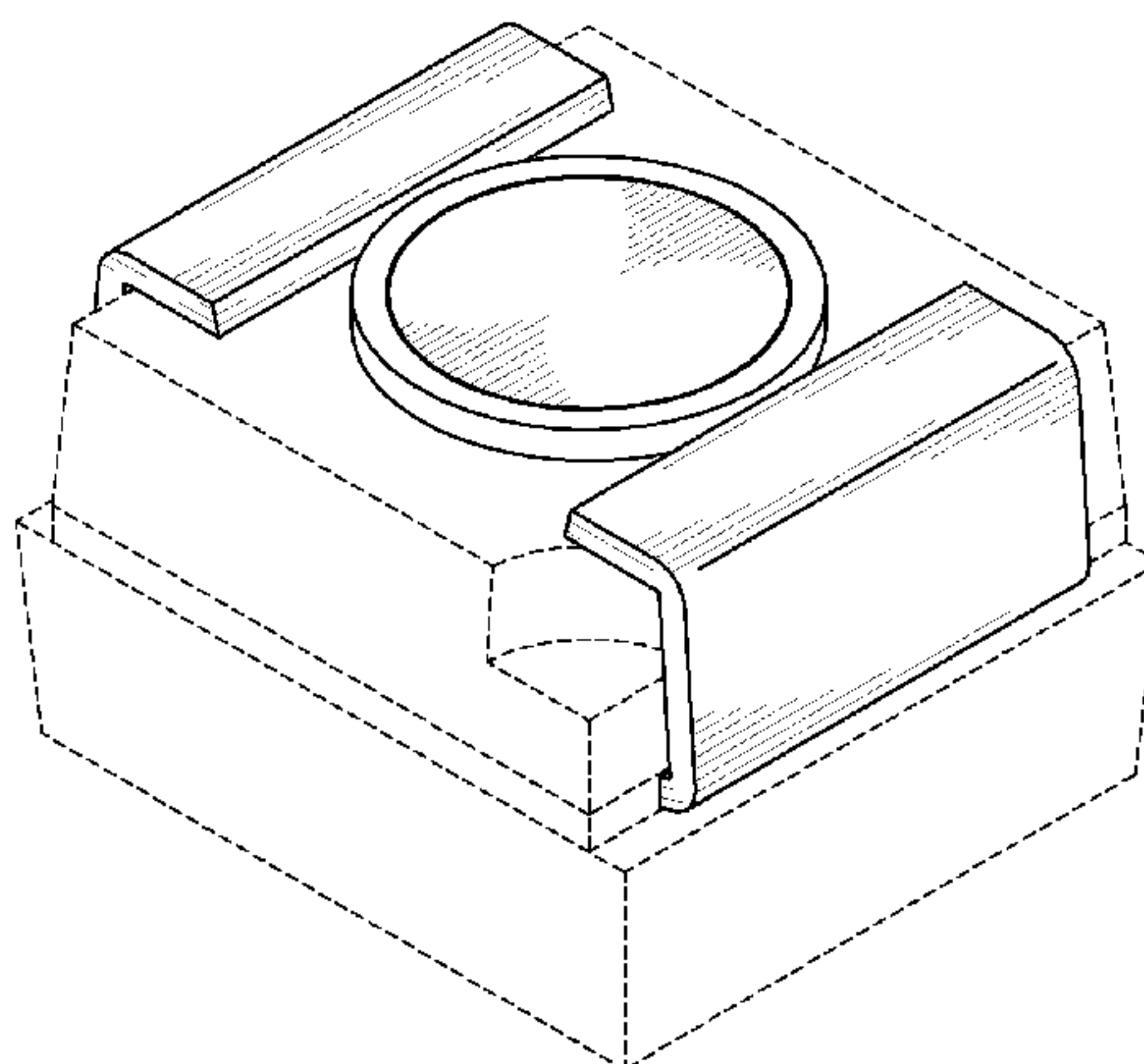
FIG. 5 is a right-side, elevational view of the light-emitting diode of FIG. 1.

FIG. 6 is a top plan view of the light-emitting diode of FIG. 1; and,

FIG. 7 is a bottom plan view of the light-emitting diode of FIG. 1.

The broken line showing of the environment is for illustrative purpose only and forms no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



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## U.S. PATENT DOCUMENTS

2002/0163001	A1*	11/2002	Shaddock .....	257/79	2006/0163705	A1*	7/2006	Kamikawa et al. ....	257/676
2004/0201028	A1*	10/2004	Waitl et al. ....	257/99	2007/0145403	A1*	6/2007	Tomioka et al. ....	257/99
2005/0127816	A1*	6/2005	Sumitani .....	313/498	2007/0252250	A1*	11/2007	Hui et al. ....	257/672

\* cited by examiner

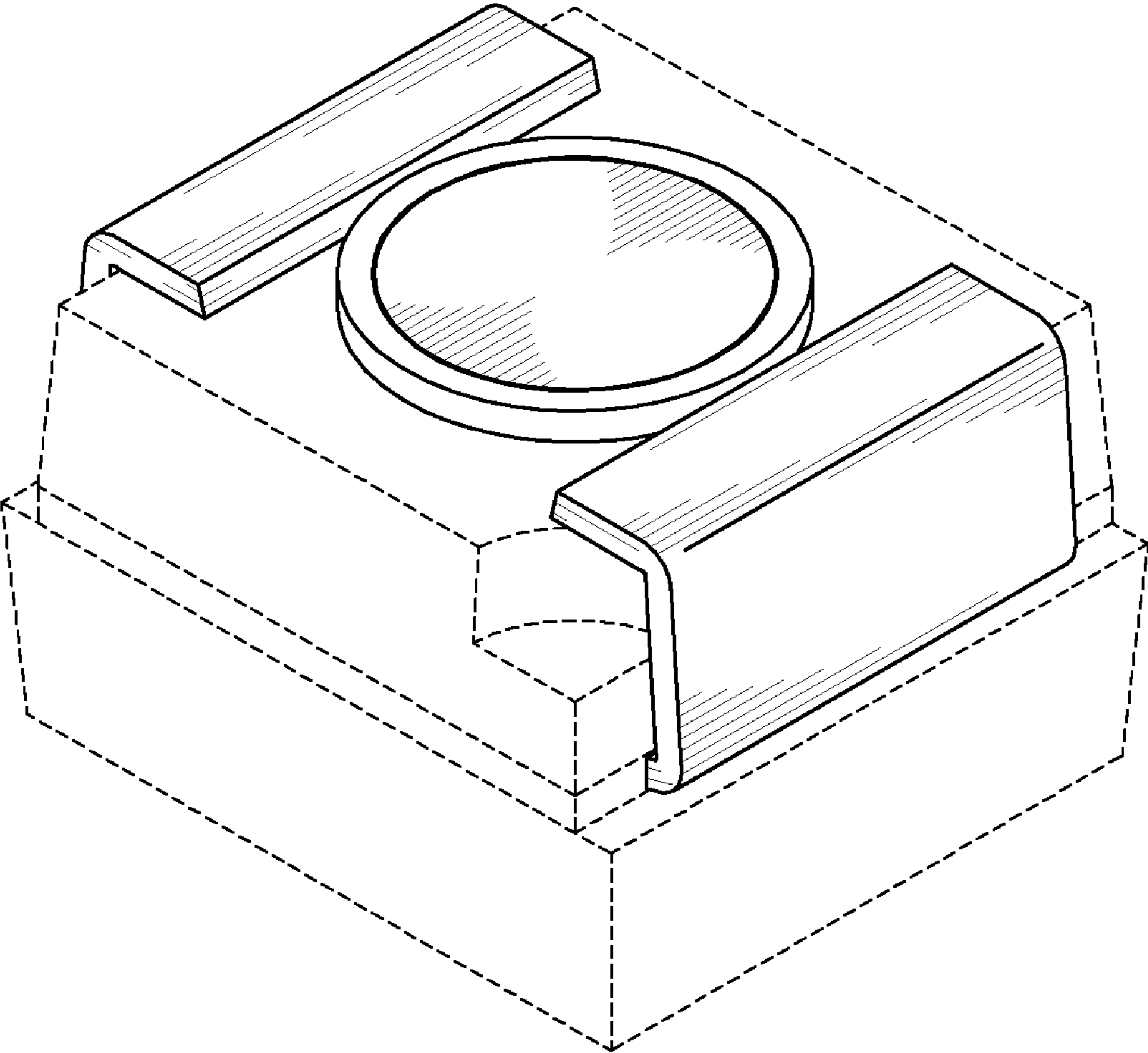


FIG. 1

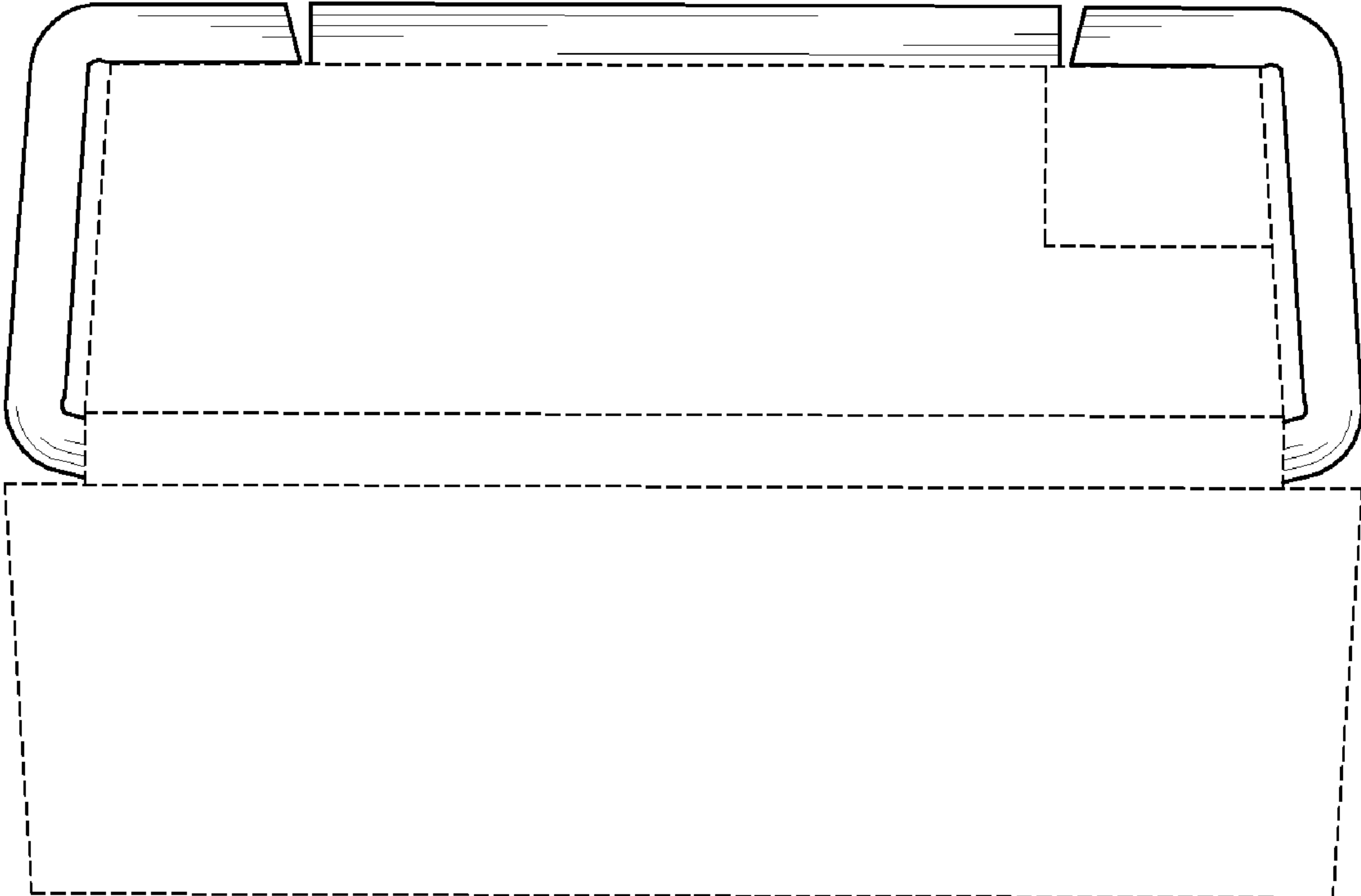


FIG. 2

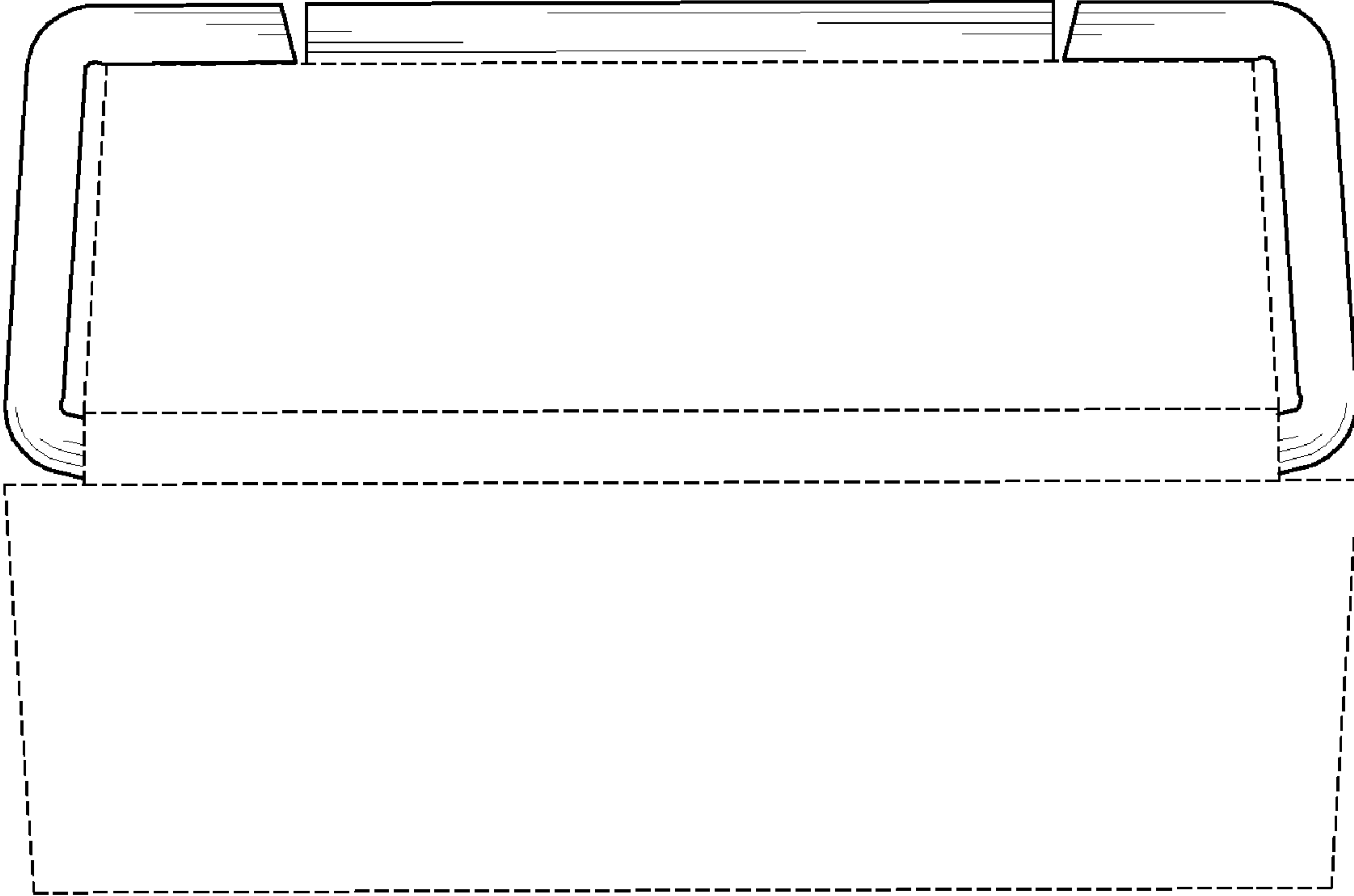


FIG. 3

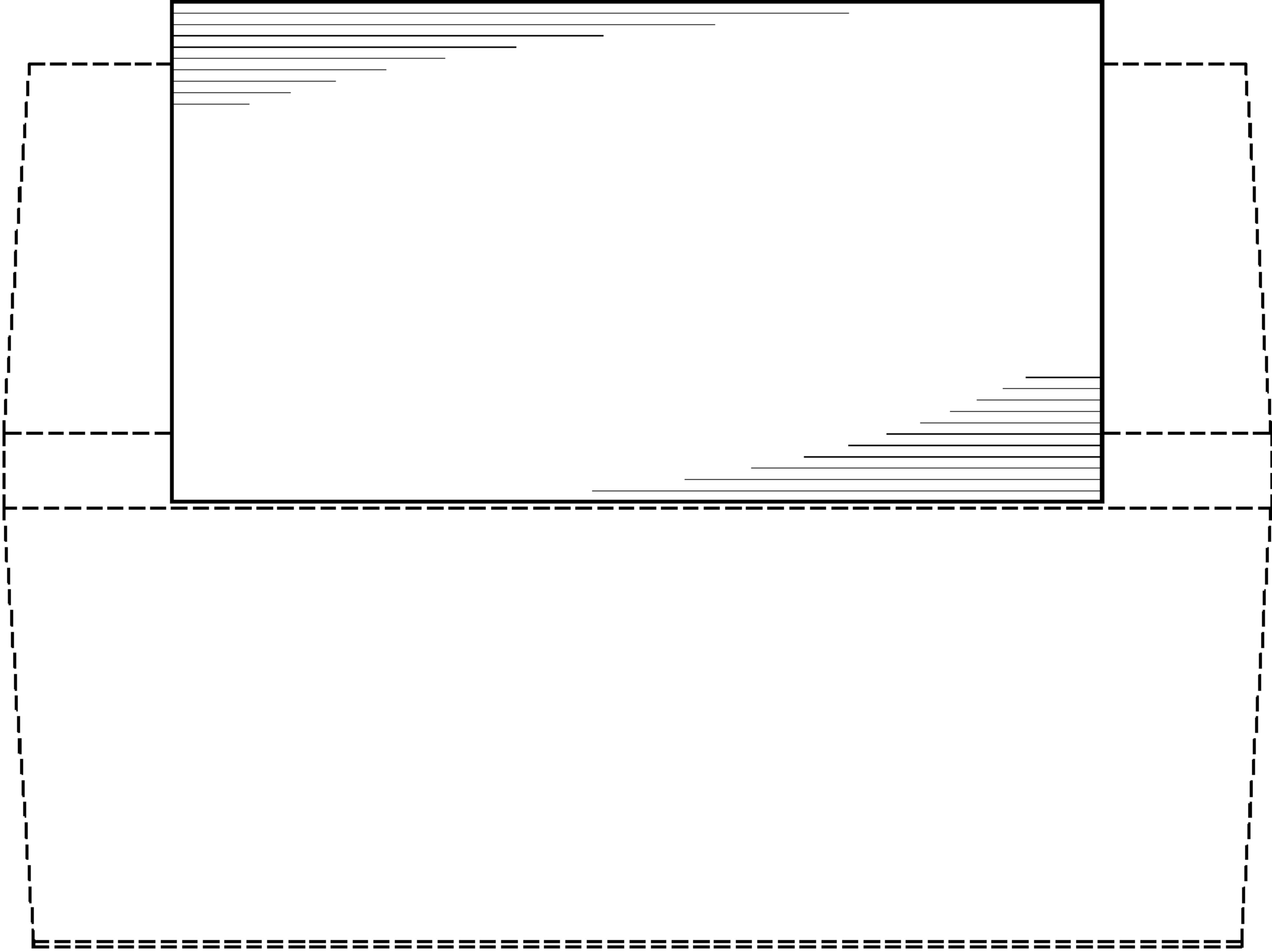


FIG. 4

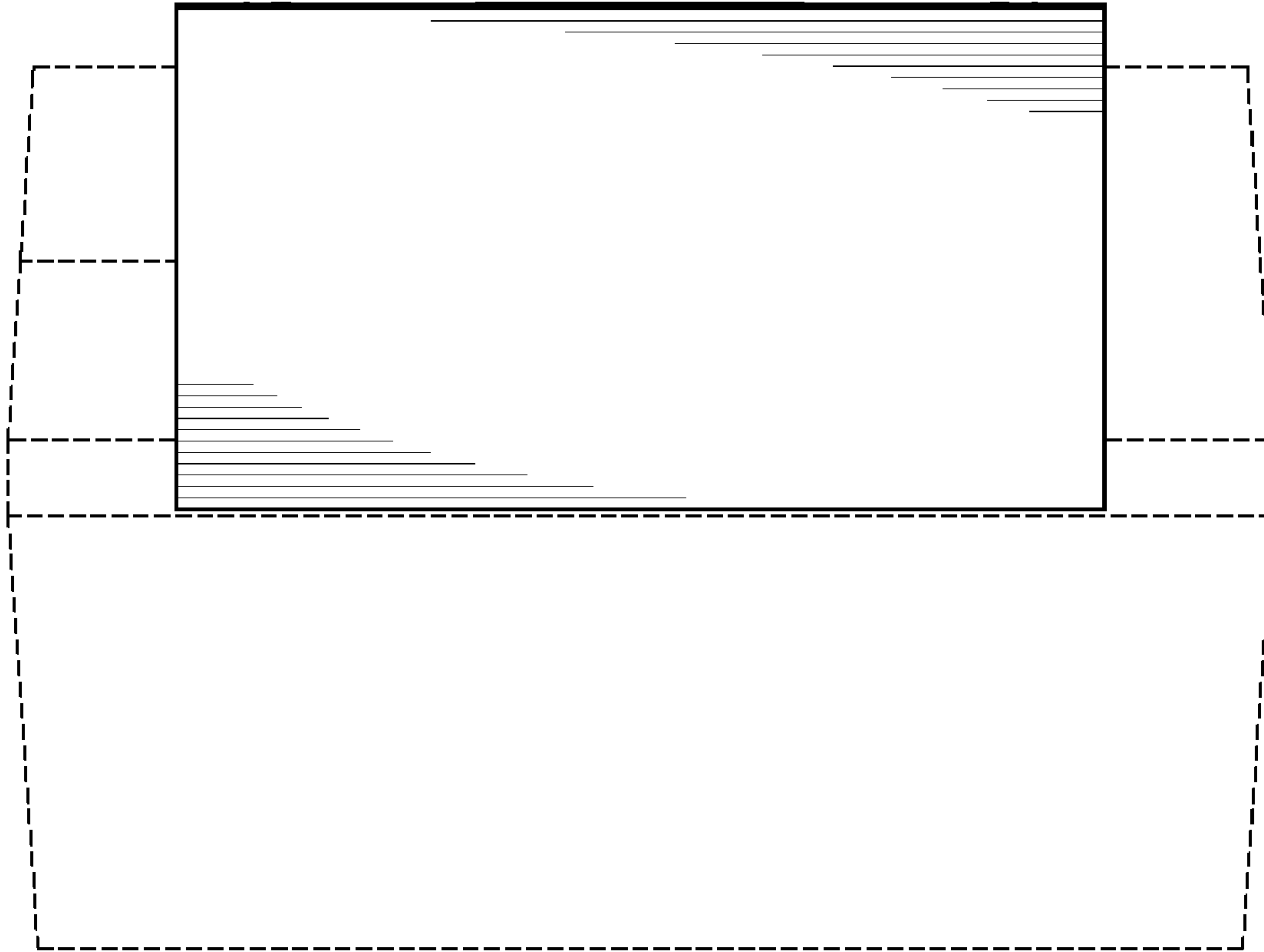


FIG. 5

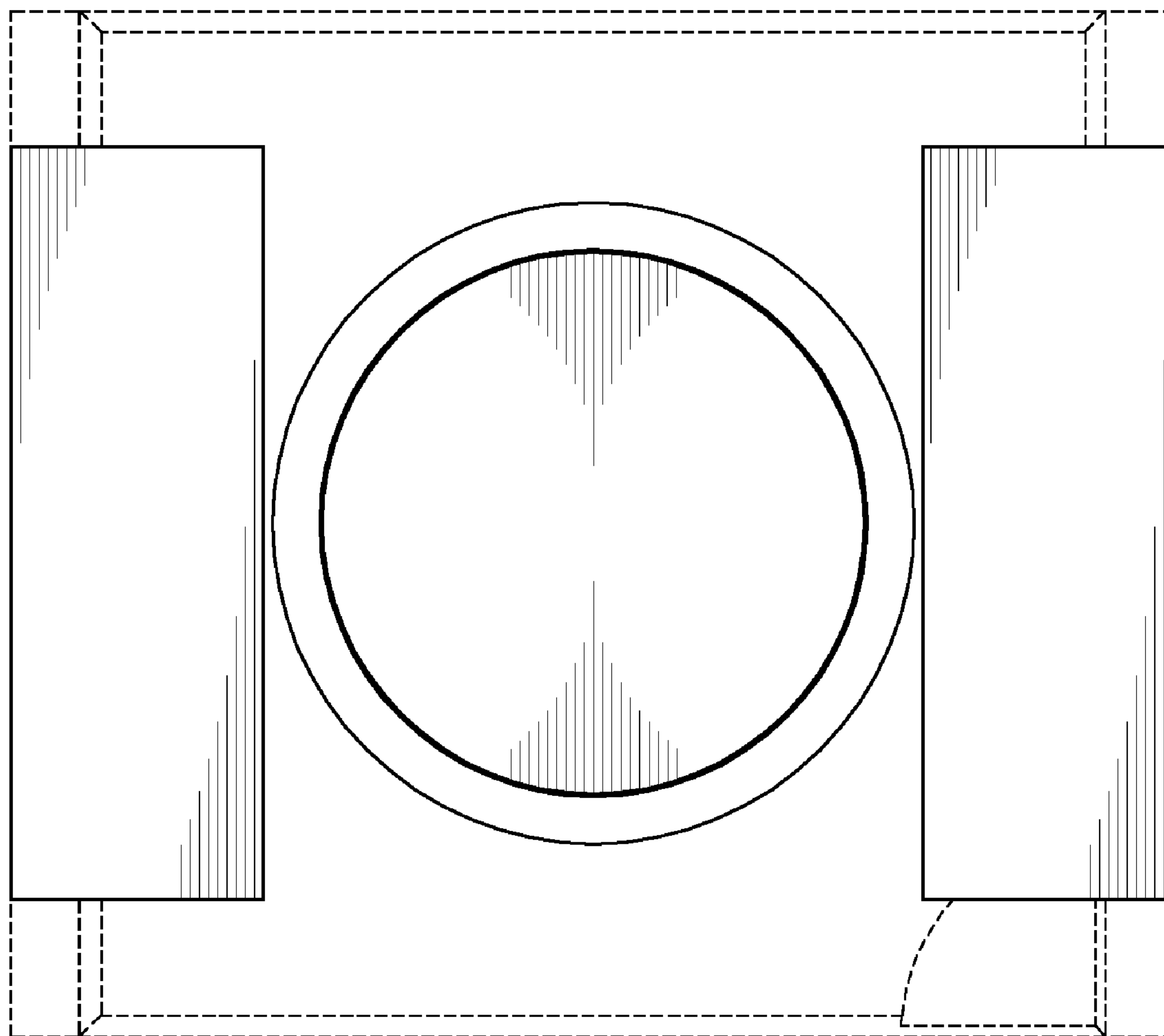


FIG. 6



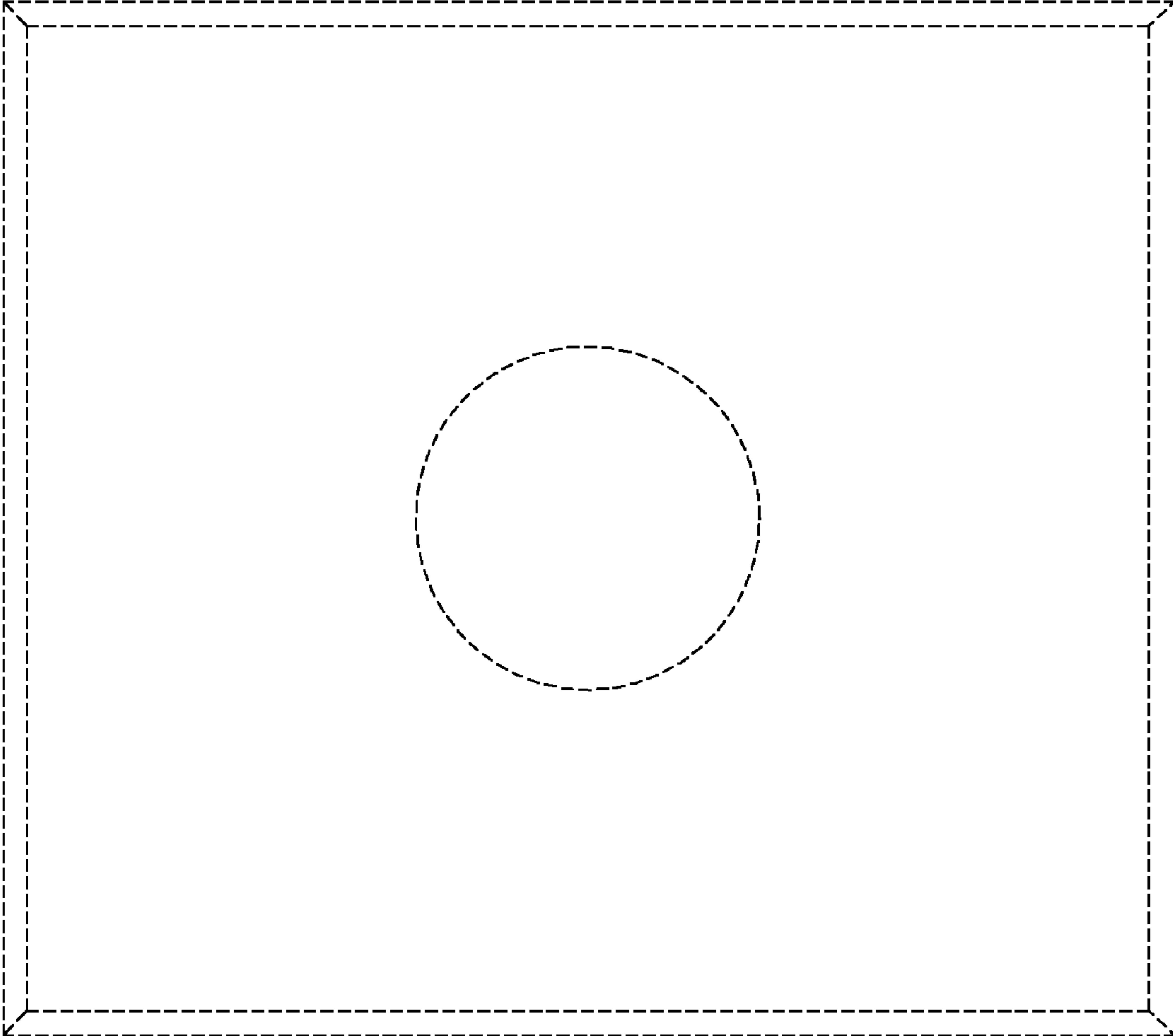


FIG. 7