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

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(54) **TUBE CLEARING DEVICE**

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

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(51) **LOC (9) Cl.** ..... **24-02**

(52) **U.S. Cl.** ..... **D24/129**

(58) **Field of Classification Search** ..... D24/107,  
D24/108, 112, 113, 127, 129, 143, 169; 222/101,  
222/102; 251/6; 414/476, 477.6; 604/93.01,  
604/246, 257, 523; 606/209

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,466,628	A *	4/1949	Waiters	.....	222/101
2,932,431	A *	4/1960	Lipton	.....	222/93
3,970,220	A *	7/1976	Spears	.....	222/102
4,164,223	A *	8/1979	Munib	.....	606/209
4,563,171	A *	1/1986	Bodicky	.....	604/540
5,881,916	A *	3/1999	Madjarac	.....	222/102
6,123,690	A *	9/2000	Mejslov	.....	604/533
6,302,866	B1 *	10/2001	Marggi	.....	604/174
6,387,076	B1 *	5/2002	Landuyt	.....	604/174
D465,843	S *	11/2002	Guala	.....	D24/129
6,659,309	B2 *	12/2003	Friedman	.....	222/97
D541,935	S *	5/2007	Mijers	.....	D24/129
7,309,055	B1 *	12/2007	Spiegel et al.	.....	251/6
D593,680	S *	6/2009	Hafele et al.	.....	D24/143
D595,846	S *	7/2009	Racz et al.	.....	D24/129
D609,338	S *	2/2010	Dozier, Jr.	.....	D24/130
7,669,735	B1 *	3/2010	Alleyne	.....	222/102
2004/0267305	A1 *	12/2004	Borgman	.....	606/209

2006/0241551	A1 *	10/2006	Lynch et al.	.....	604/174
2007/0149896	A1 *	6/2007	Yang	.....	600/573
2009/0308034	A1 *	12/2009	Olson et al.	.....	55/417

**OTHER PUBLICATIONS**

Tube-Evac, as shown on www.tube-evac.com, viewed Apr. 21, 2010  
(3 pages).\*

\* cited by examiner

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(57) **CLAIM**

The ornamental design for a tube clearing device, as shown  
and described.

**DESCRIPTION**

FIG. 1 is a top, left perspective view of a tube clearing device,  
according to the present invention;

FIG. 2 is a bottom view of the tube clearing device of FIG. 1;

FIG. 3 is a top view of the tube clearing device of FIG. 1;

FIG. 4 is a rear view of the tube clearing device of FIG. 1;

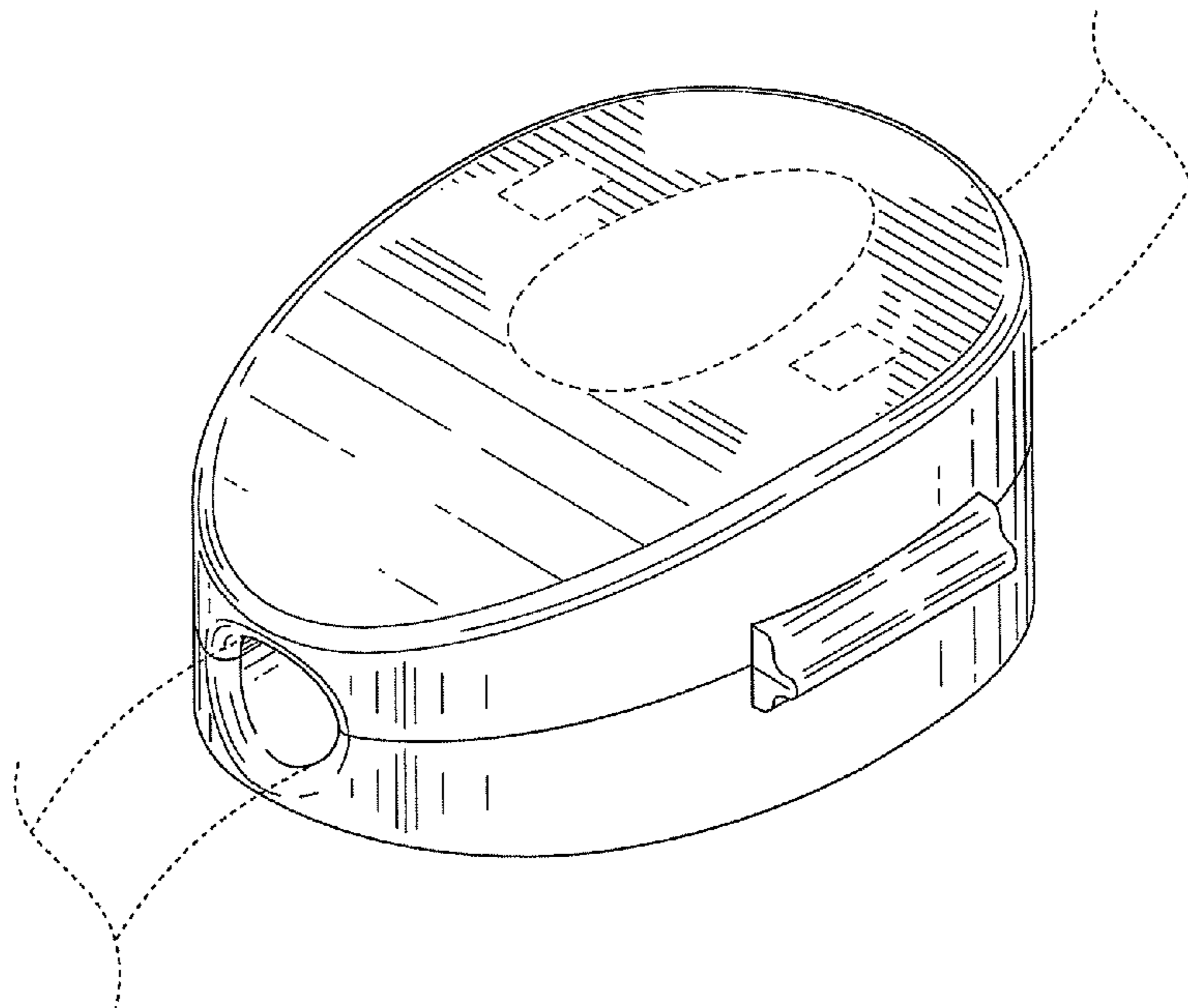
FIG. 5 is a front view of the tube clearing device of FIG. 1;

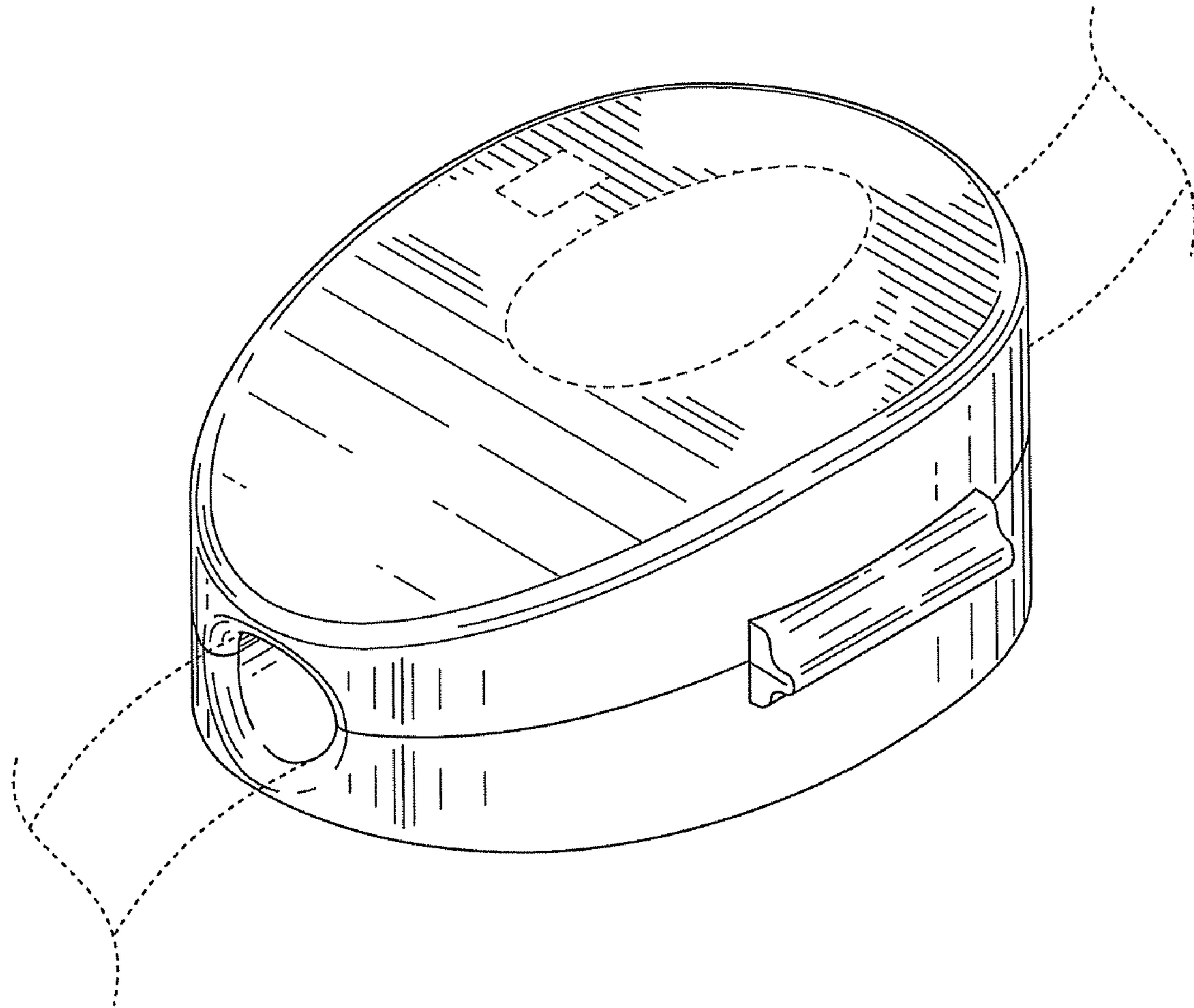
FIG. 6 is a left side view of the tube clearing device of FIG. 1;  
and,

FIG. 7 is a right side view of the tube clearing device of FIG.  
1.

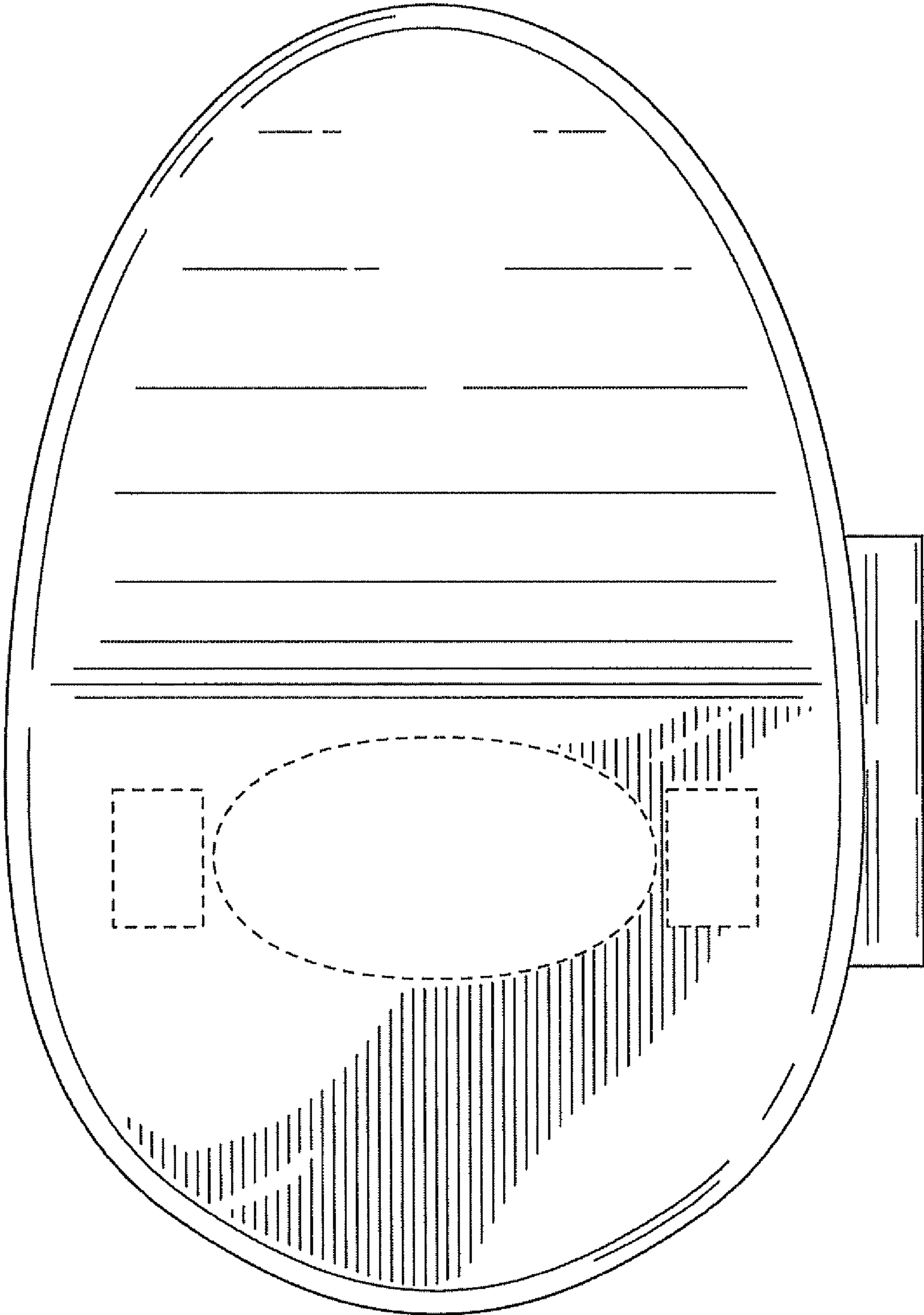
The longer broken lines in FIGS. 1-3 define the bounds of the  
claimed design and form no part thereof. The shorter broken  
lines in FIGS. 1, 4 and 5 depict environmental matter, and  
form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**

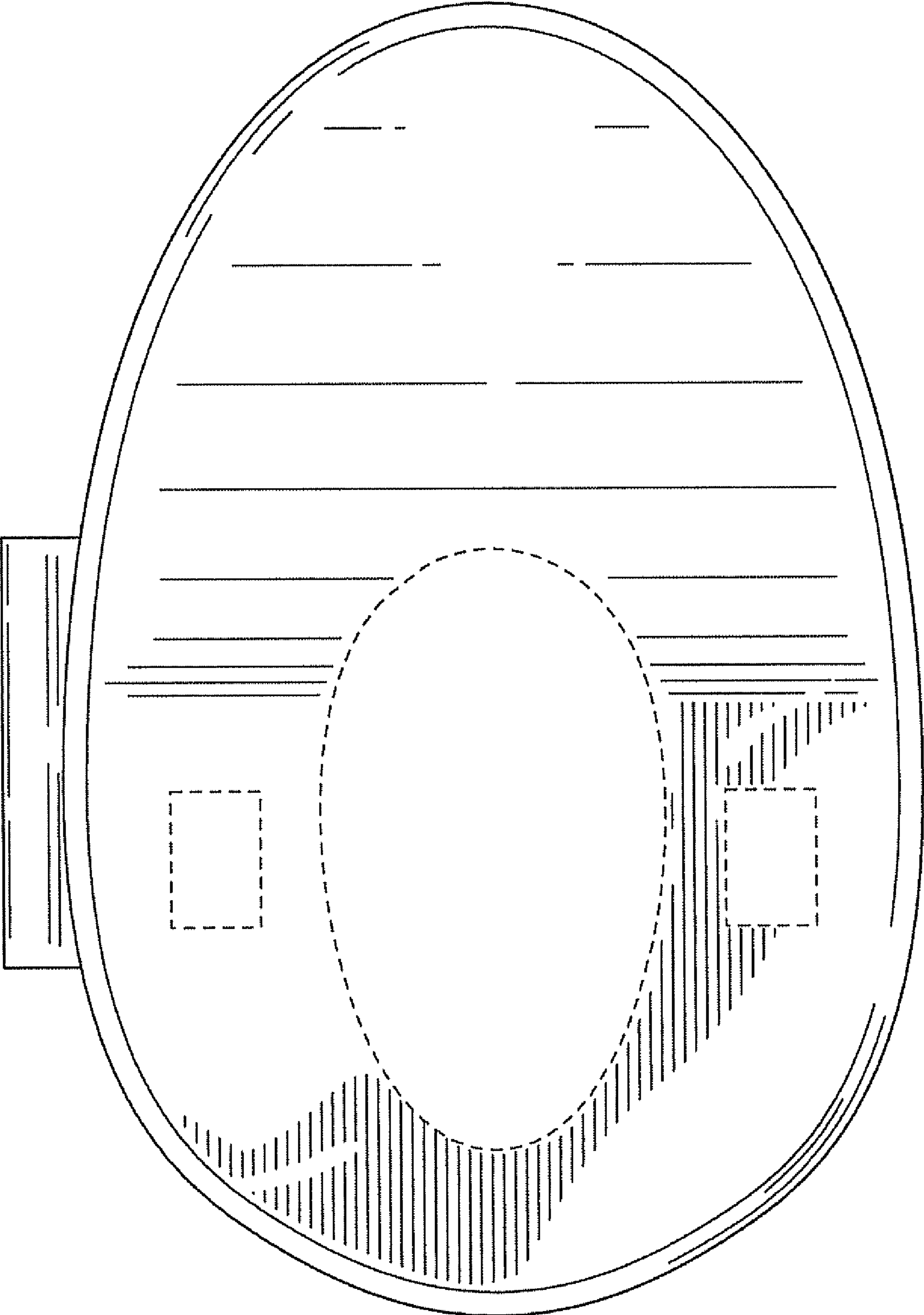




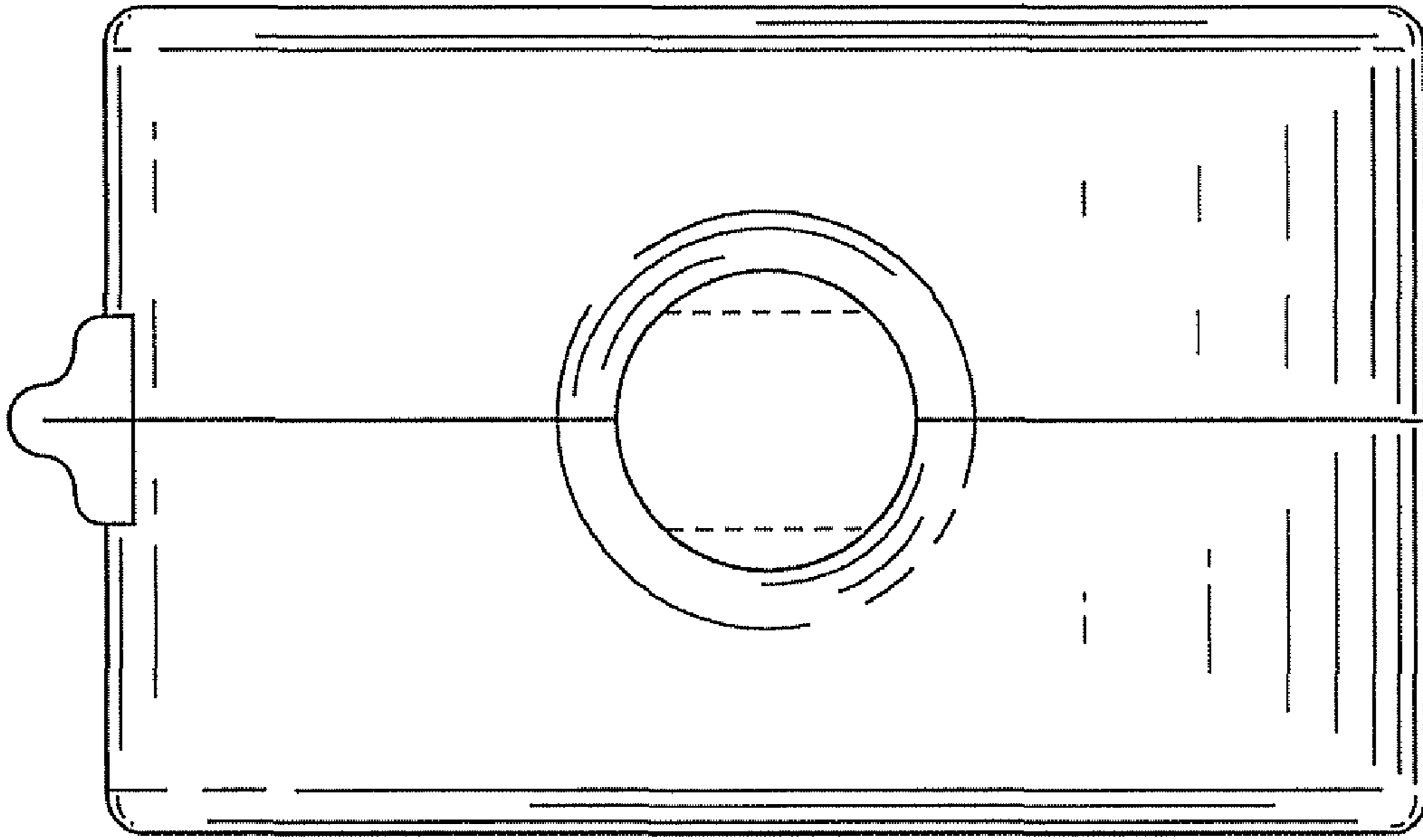
**FIG. 1**



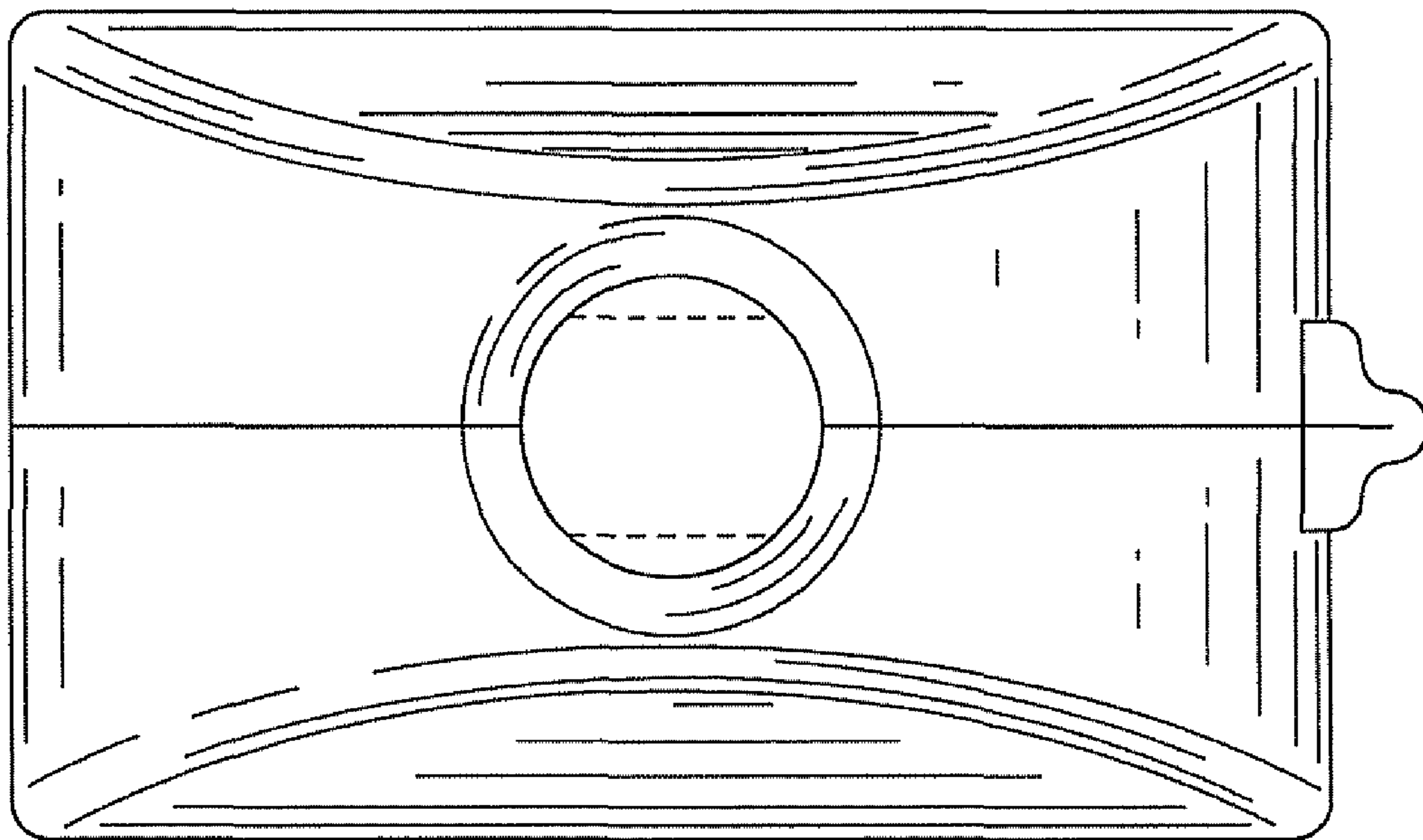
**FIG. 2**



**FIG. 3**



**FIG. 4**



**FIG. 5**

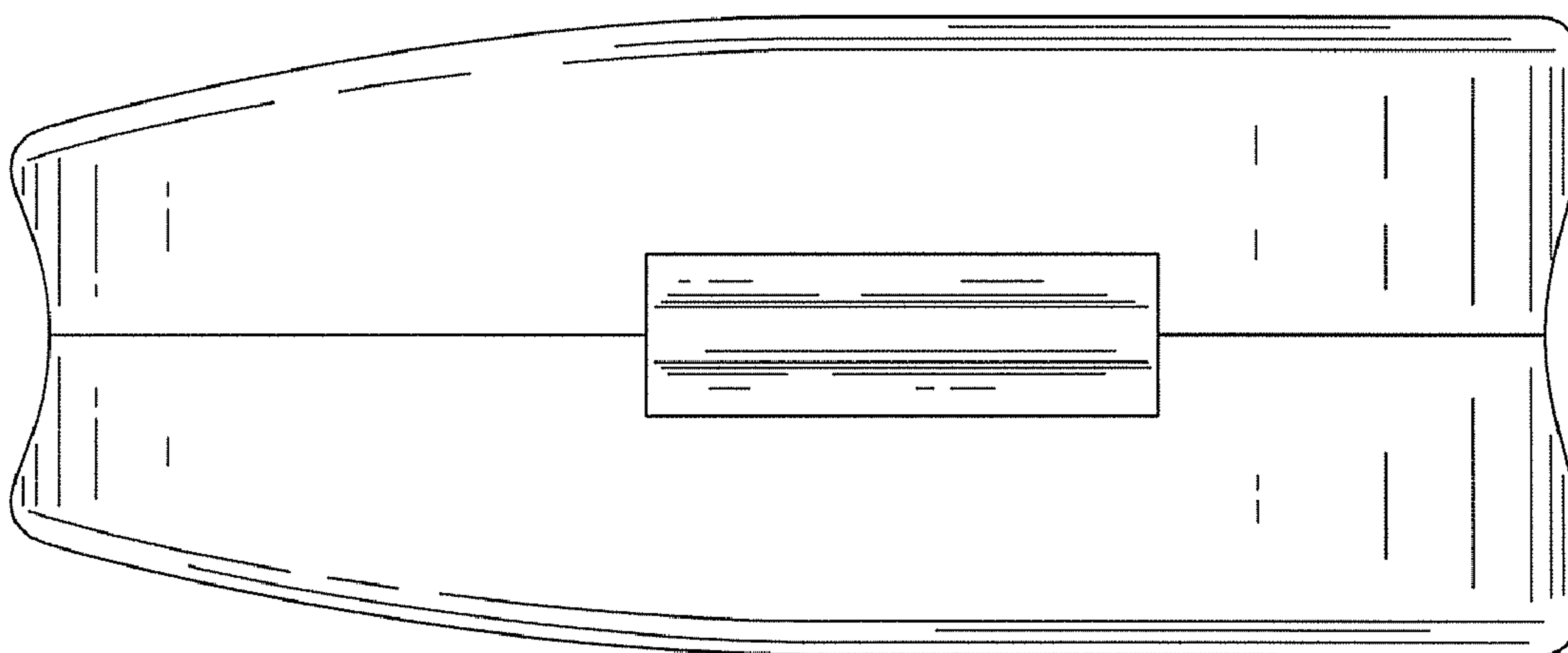


FIG. 6

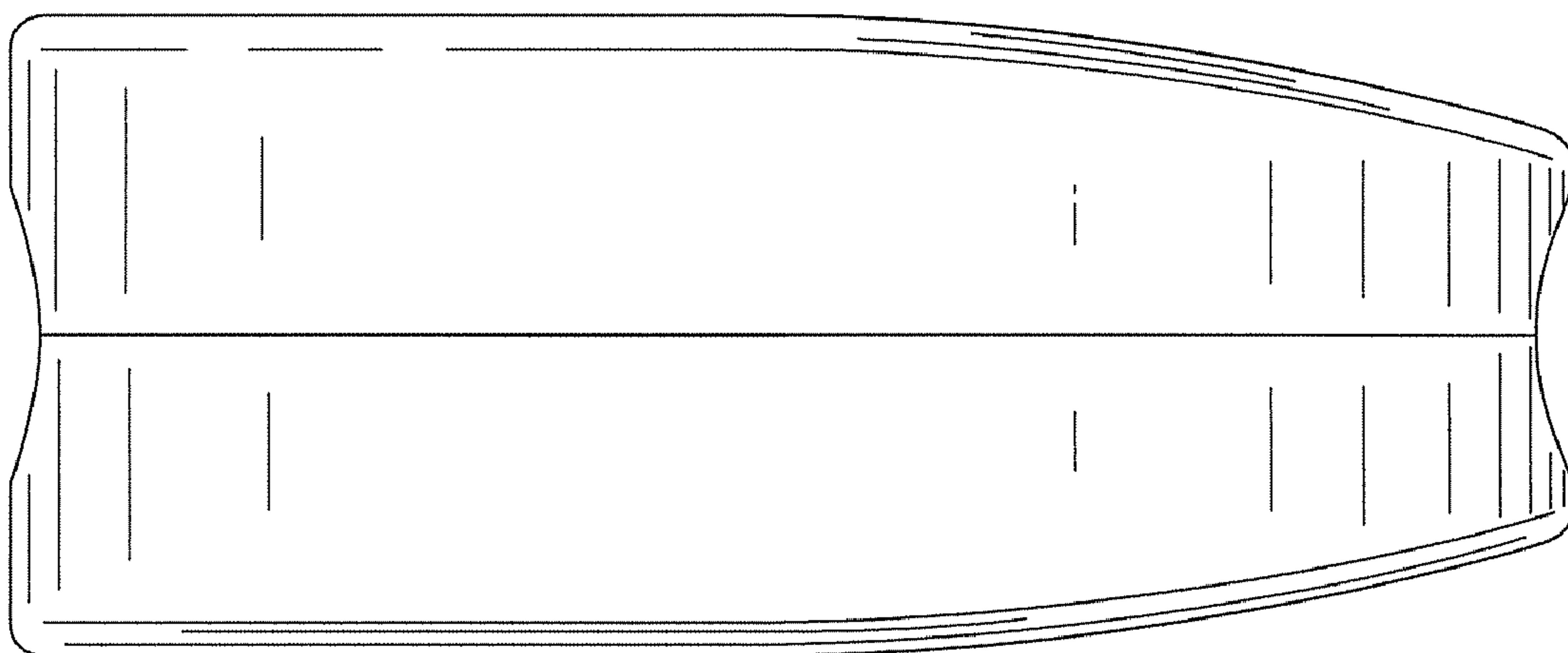


FIG. 7