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

(10) **Patent No.:** **US D980,576 S**
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(54) **ROLLER CHAIN OUTER PLATE LINK**

5,203,745 A 4/1993 Wang
D364,552 S * 11/1995 Mathiassen D9/434
5,938,554 A * 8/1999 Moster F16G 13/06
474/209

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(Continued)

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FOREIGN PATENT DOCUMENTS

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GB 445527 A 4/1936

(**) Term: **15 Years**

OTHER PUBLICATIONS

(21) Appl. No.: **29/760,376**

European Search Report dated Jul. 20, 2018 for corresponding
European Application No. 18150893.8 (9 pages).

(Continued)

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(51) **LOC (14) Cl.** **12-05**

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(52) **U.S. Cl.**

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USPC **D34/35**

(58) **Field of Classification Search**

(57) **CLAIM**

USPC D34/33, 35, 28, 32

The ornamental design for a roller chain outer plate link, as
shown and described.

CPC F16H 10/0063; F16G 13/06; F16G 13/04;

F16G 13/07; F16G 13/08; F16G 15/12;

F16G 15/00

DESCRIPTION

See application file for complete search history.

FIG. 1 is a front perspective view of a roller chain outer plate
link.

FIG. 2 is a rear perspective view of the roller chain outer
plate link in FIG. 1.

FIG. 3 is a front view of the roller chain outer plate link in
FIG. 1.

FIG. 4 is a rear view of the roller chain outer plate link in
FIG. 1.

FIG. 5 is a right end view of the roller chain outer plate link
in FIG. 1.

FIG. 6 is a left end view of the roller chain outer plate link
in FIG. 1.

FIG. 7 is a top view of the roller chain outer plate link in
FIG. 1; and,

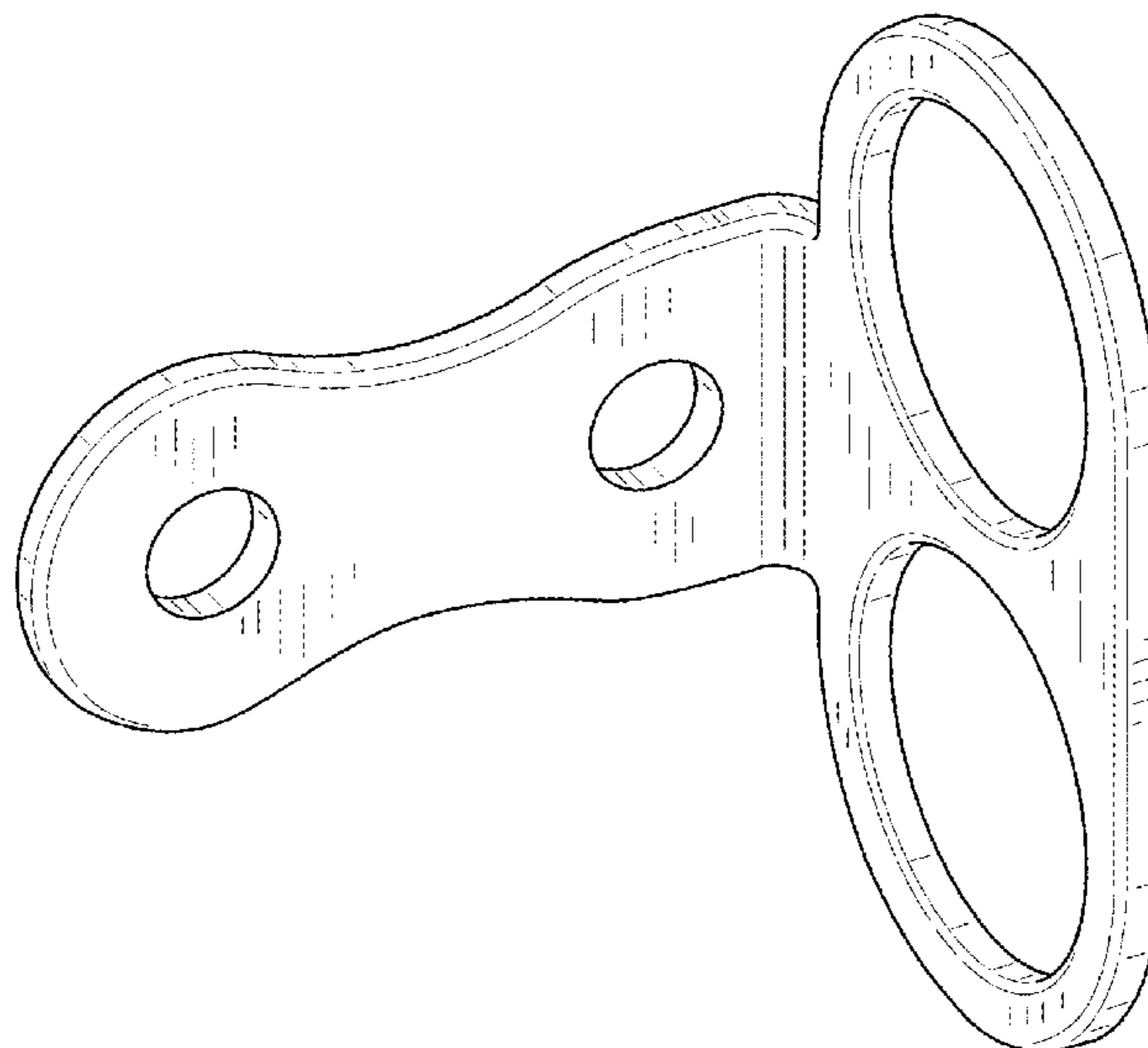
FIG. 8 is a bottom view of the roller chain outer plate link
in FIG. 1.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,432,411 A	12/1947	Guerin et al.	
2,452,242 A	10/1948	Johnson	
2,620,676 A	12/1952	Raddings	
2,972,857 A	2/1961	Bodman	
3,047,130 A *	7/1962	Resener	B65G 17/065 198/851
3,231,069 A	1/1966	Lanham	
D217,242 S *	4/1970	Comellas	D15/28
D218,158 S *	7/1970	Comellas	D15/28
D289,497 S	4/1987	Schroeder et al.	
5,176,585 A *	1/1993	Novak	F16G 13/02 474/140
5,193,660 A	3/1993	McKernan et al.	

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D439,389	S *	3/2001	Simkowski	D34/29
D488,371	S *	4/2004	Shaljian	D8/354
7,240,477	B1	7/2007	Dunfee et al.	
D734,590	S	7/2015	Evers	
D751,609	S *	3/2016	Meyer	D15/28
D833,702	S	11/2018	Hogan et al.	
D834,931	S *	12/2018	Ressler	D8/382
D858,026	S *	8/2019	Spronken	D34/35
10,533,646	B2	1/2020	Hogan et al.	
D911,661	S *	2/2021	Parrish	D34/35
2002/0165057	A1	11/2002	Barton et al.	
2006/0194664	A1	8/2006	Wang	
2007/0180808	A1 *	8/2007	Wu	F16G 13/06 59/84
2007/0219034	A1 *	9/2007	Wu	F16G 15/00 474/230
2015/0176678	A1 *	6/2015	Burrell	F16G 11/046 24/129 R
2016/0040753	A1	2/2016	Wang	
2020/0109770	A1	4/2020	Hogan et al.	

OTHER PUBLICATIONS

Tsubaki, "Small Size Conveyor & Sprockets", Tsubakimoto Chain Co., Catalog No. ME 1311, (c)2014, 168 pgs.
 European Patent Office Examination Report for Application No. 18150893.8 dated Dec. 8, 2020 (7 pages).
 Pending U.S. Appl. No. 29/665,279, filed Oct. 2, 2018 (34 pages).

* cited by examiner

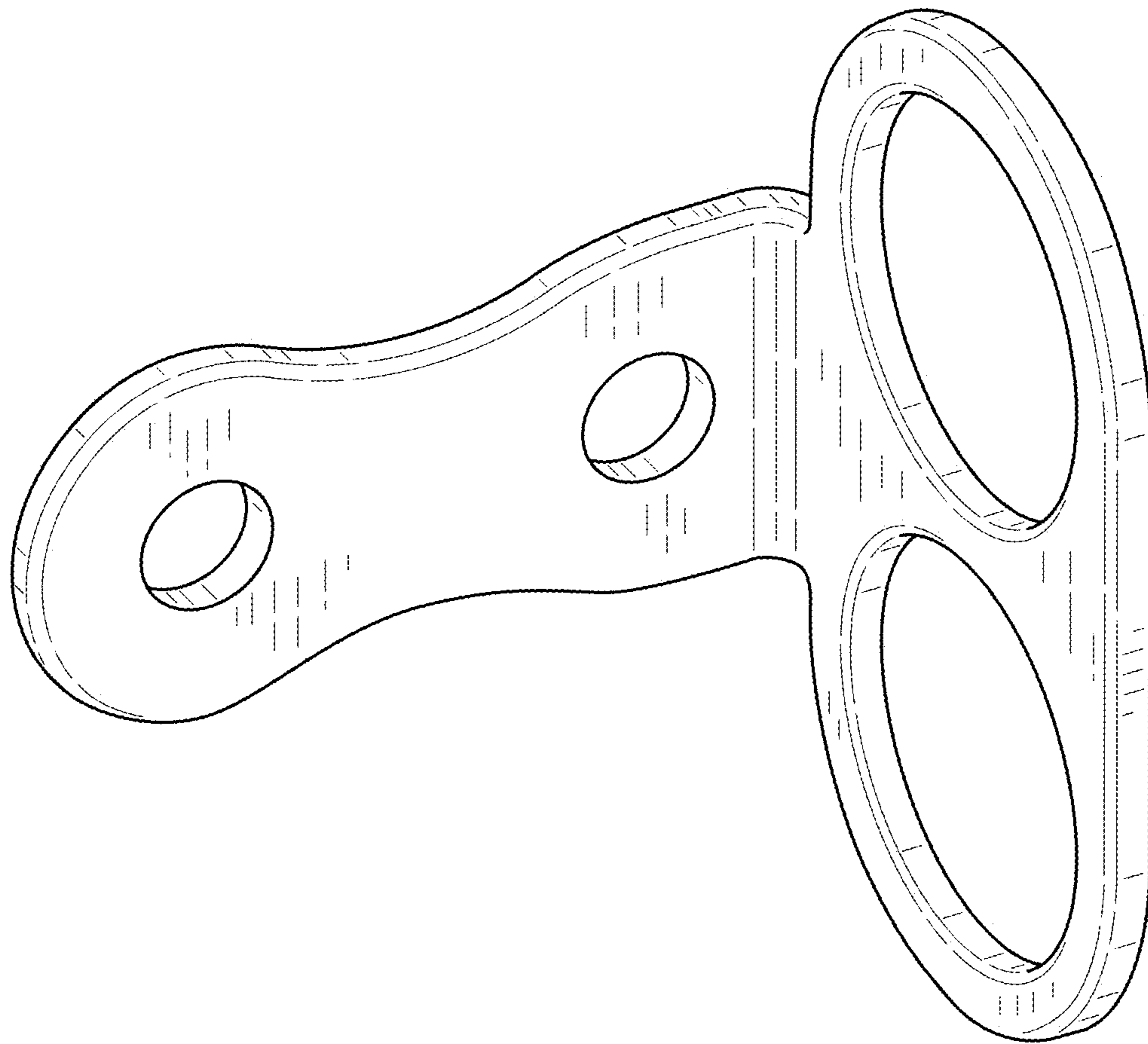


FIG. 1

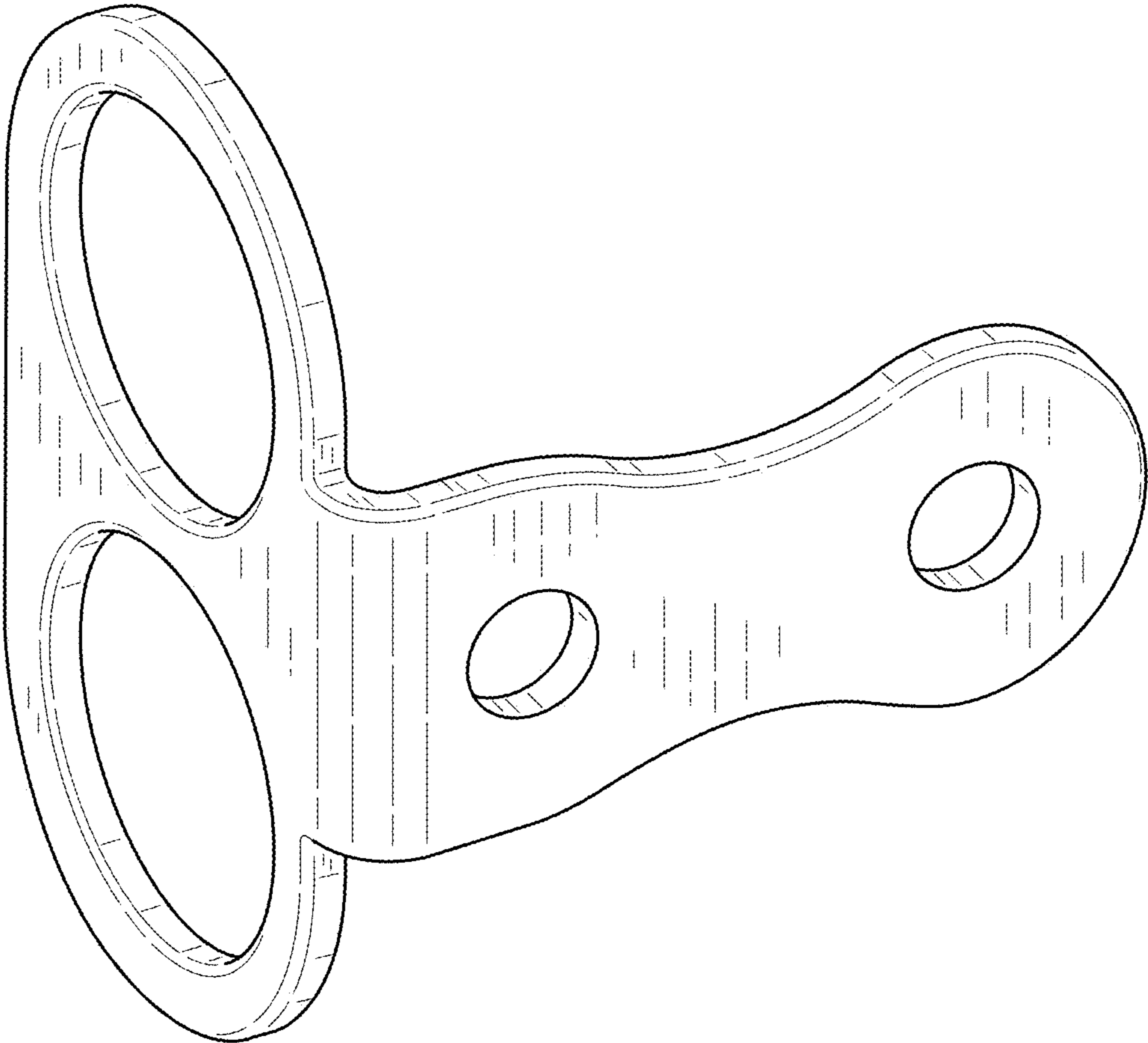


FIG.2

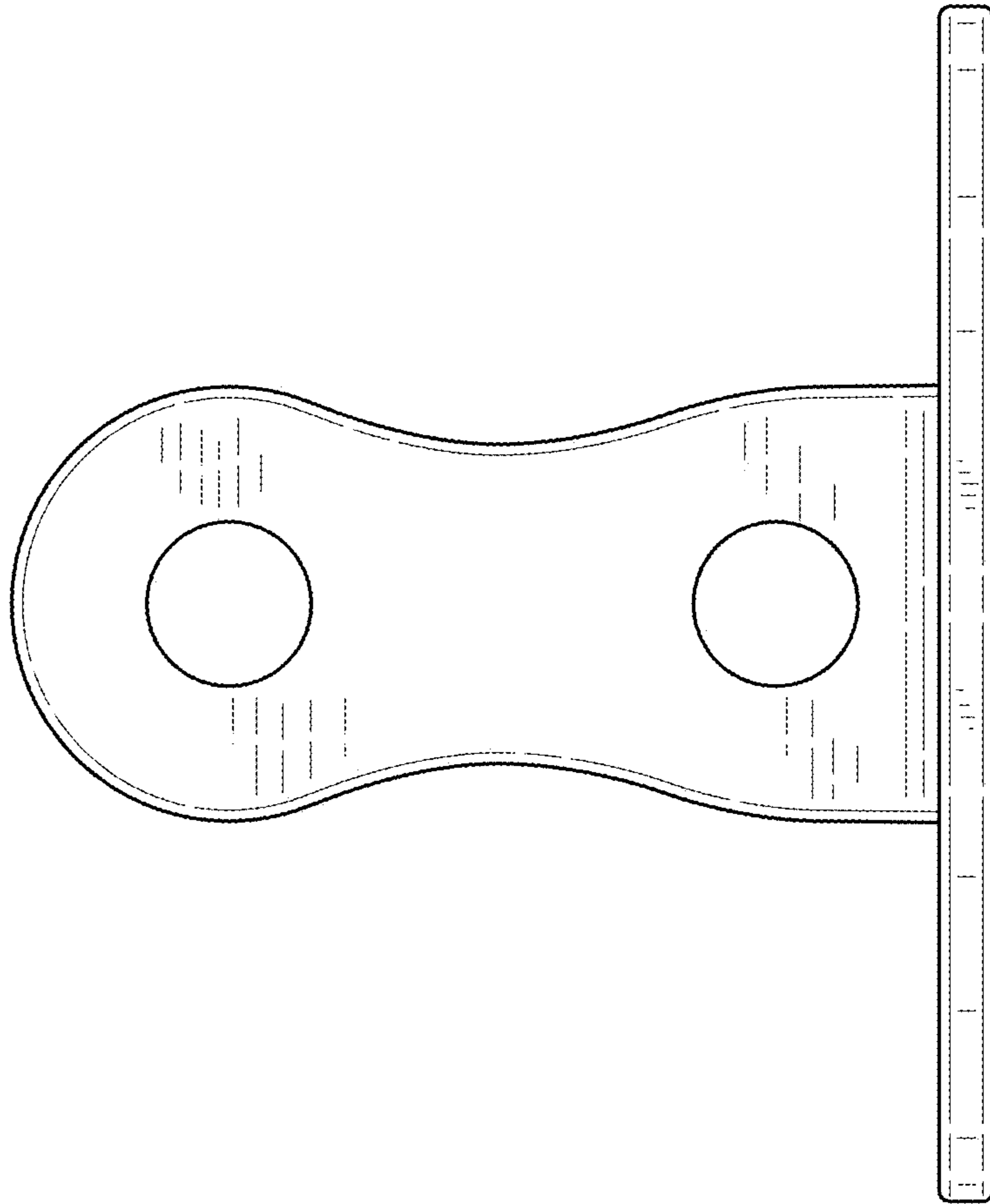


FIG.3

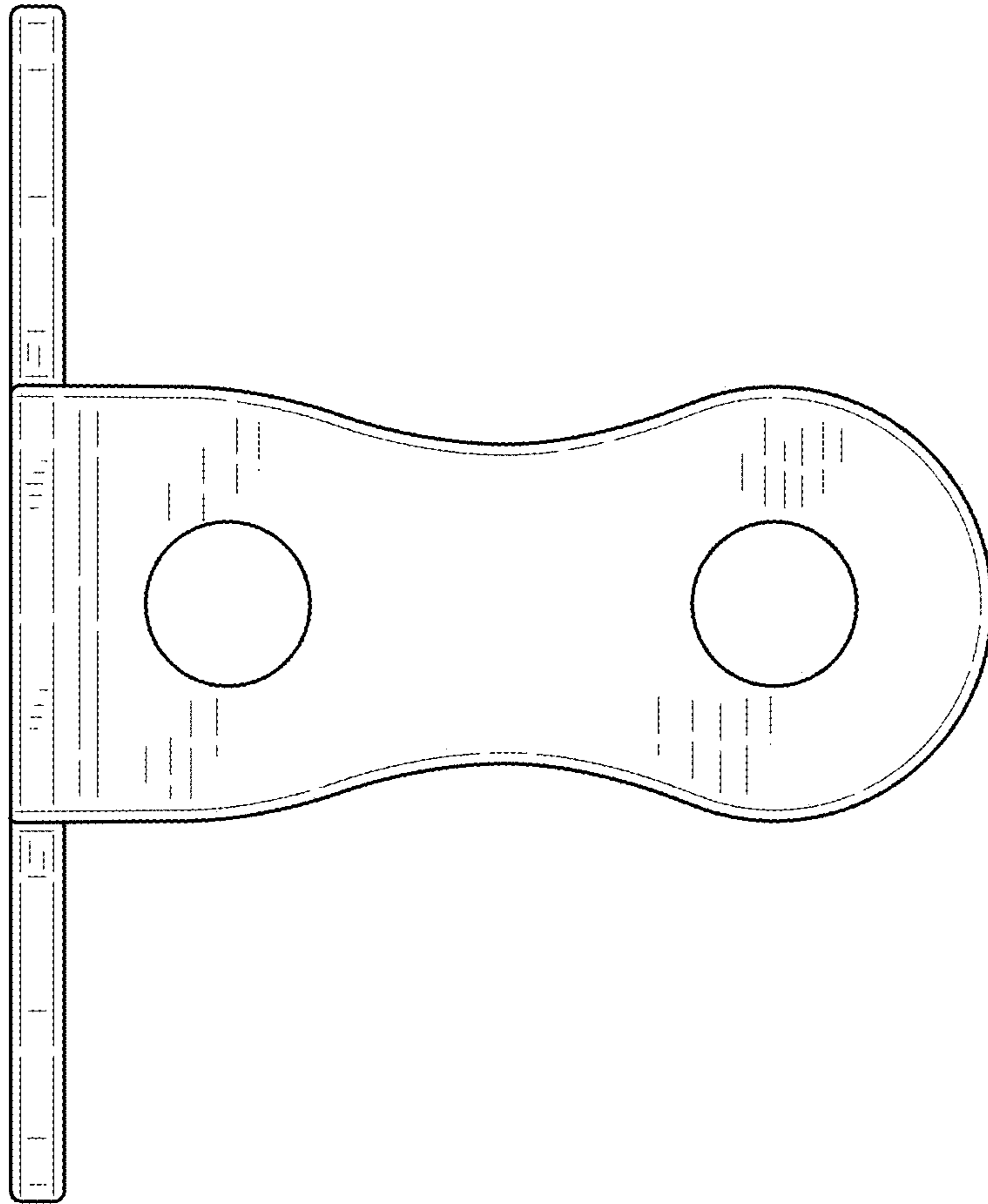


FIG.4

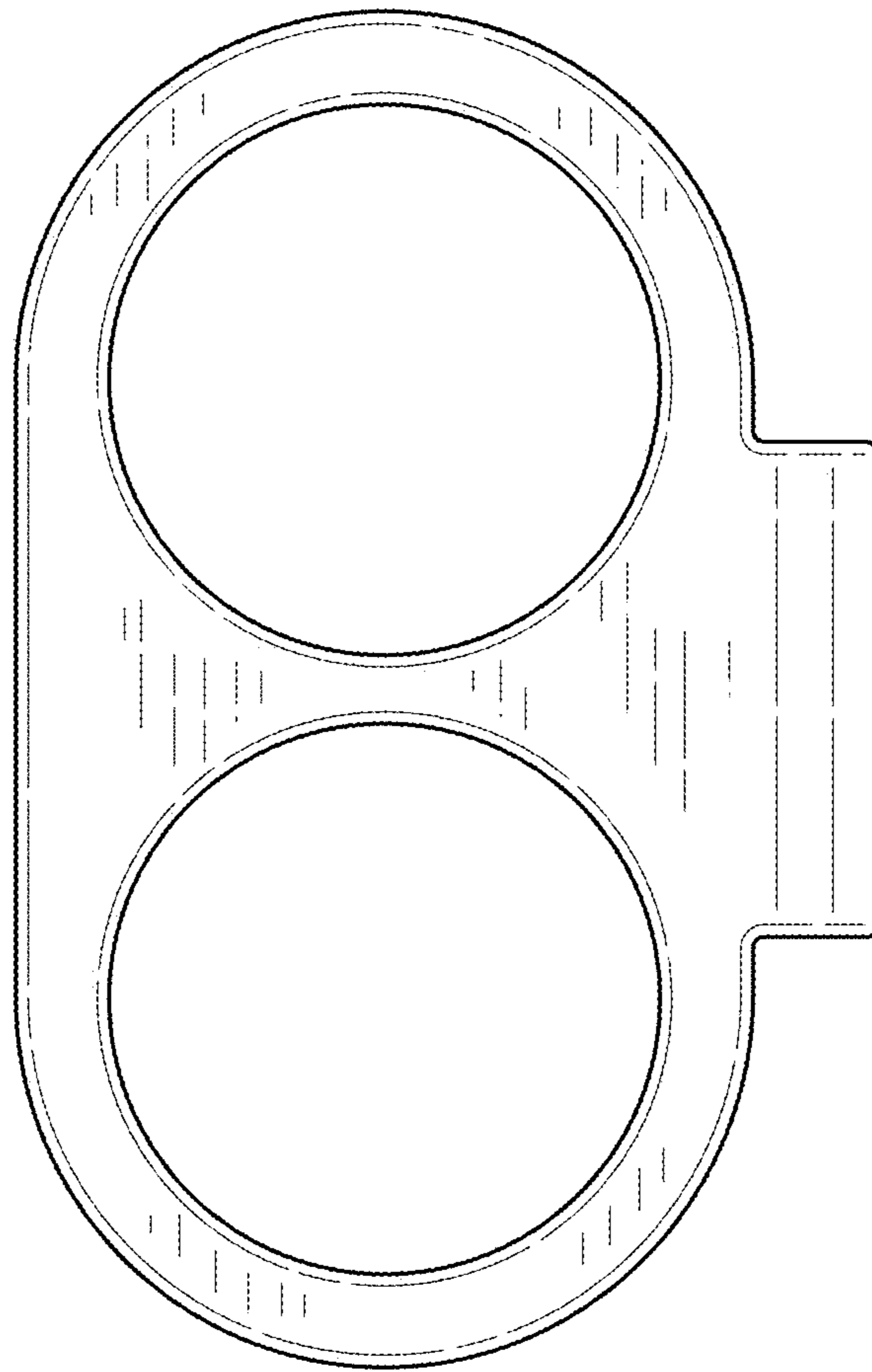


FIG.5

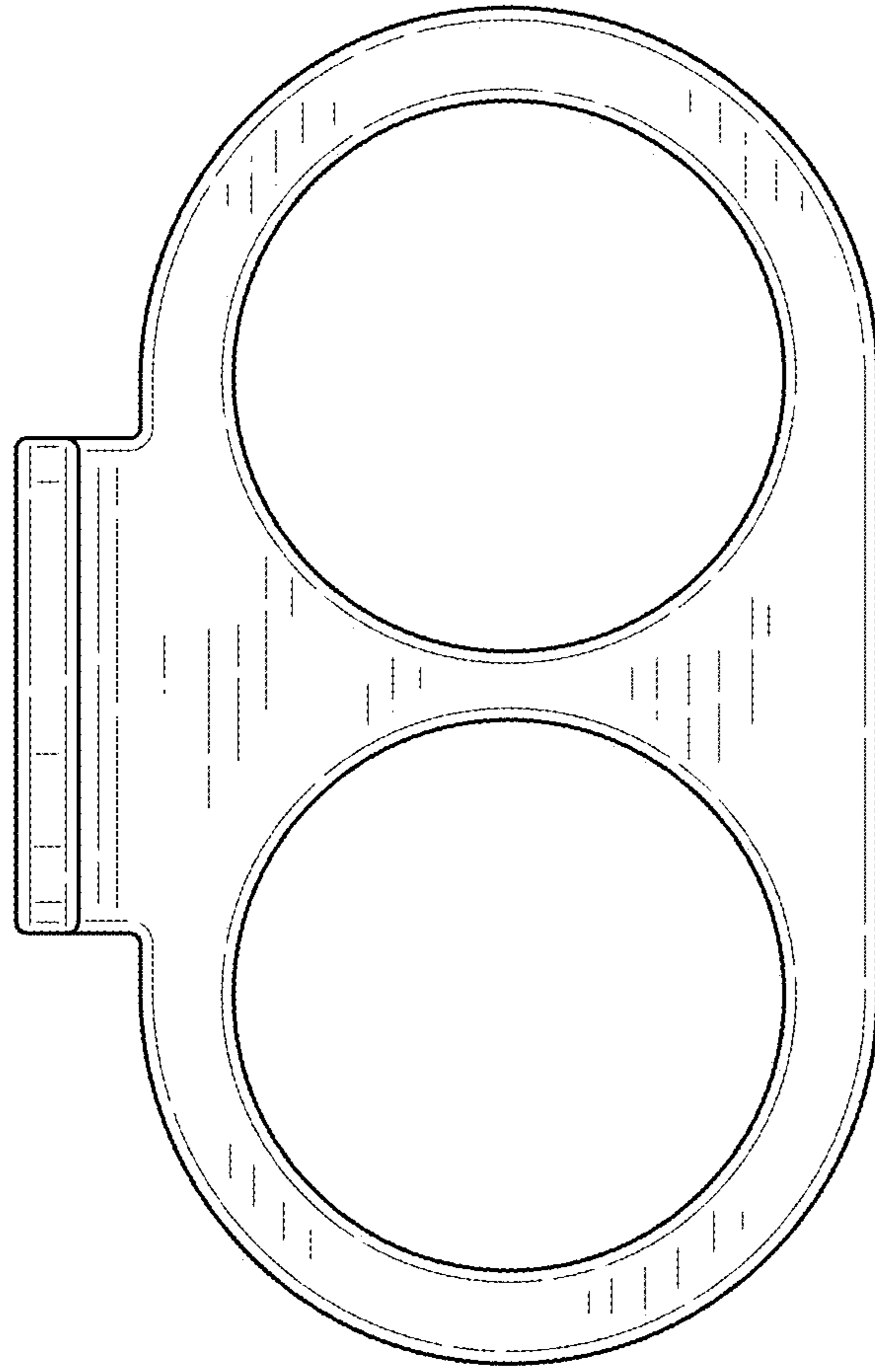


FIG.6

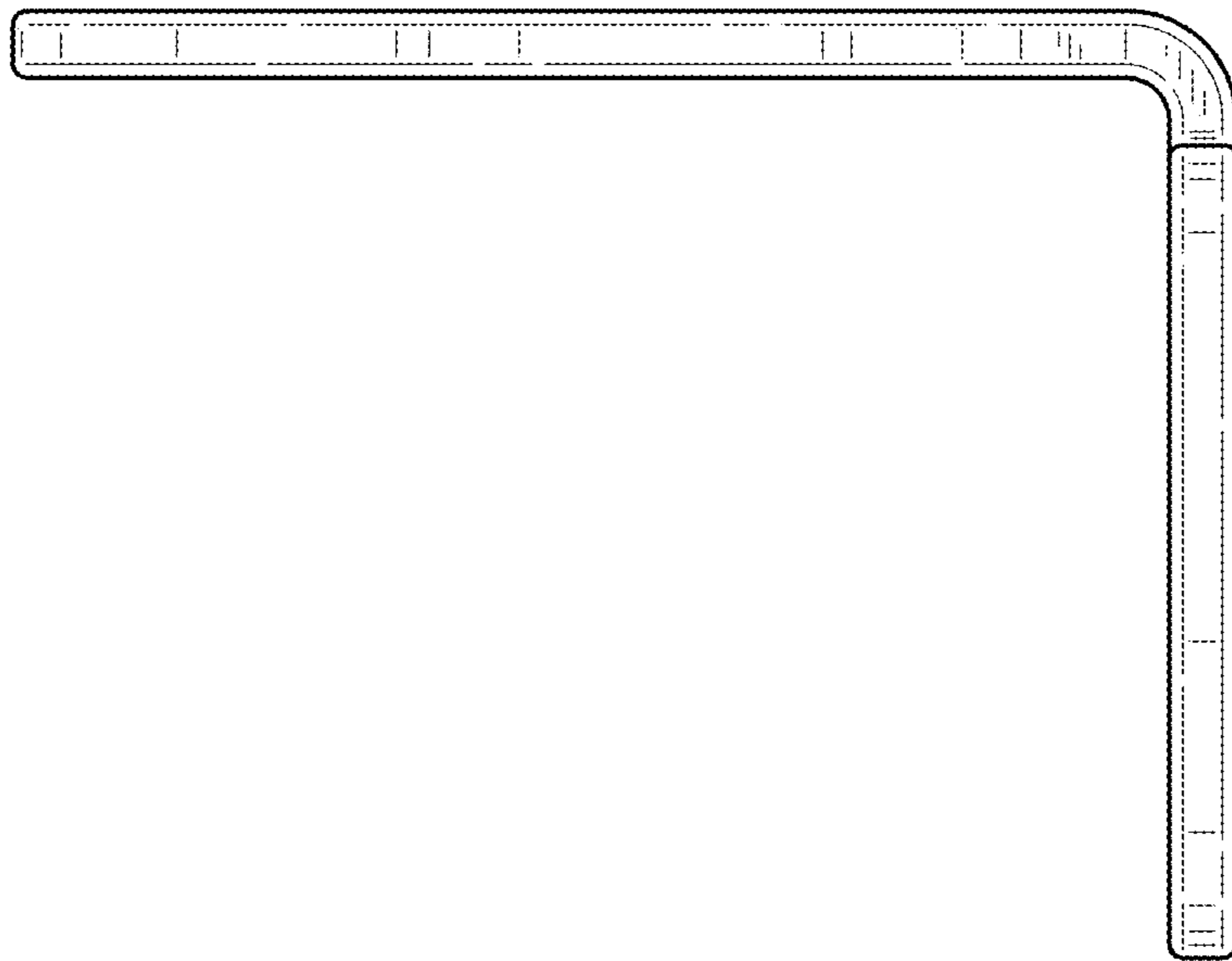


FIG. 7



FIG. 8