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Chin et al.

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(54) **PUPIL EXPANDER**

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(*) Notice: This patent is subject to a terminal disclaimer.

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

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(51) **LOC (10) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/135; D24/150**

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606/294, 302; 600/201, 206, 210, 233, 236,
600/237, 238, 239, 242, 243
CPC A61B 2017/0243; A61B 2017/0237;
A61B 17/0218; A61B 2017/0225; A61B
17/0231; A61B 17/0293; A61B 2019/5234
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,998,217	A *	12/1976	Trumbull et al.	600/233
5,163,419	A *	11/1992	Goldman	600/206
6,440,065	B1 *	8/2002	Hered	600/236
6,497,700	B1 *	12/2002	LaHaye	606/4
6,620,098	B1 *	9/2003	Milverton	600/236
D489,130	S *	4/2004	Sinding	D24/137

D504,721	S *	5/2005	Dorfman	D24/135
D505,203	S *	5/2005	Sinding	D24/135
D533,664	S *	12/2006	Buttler et al.	D24/140
D535,024	S *	1/2007	Huttner	D24/140
D536,094	S *	1/2007	Huttner	D24/140
D581,531	S *	11/2008	Alinsod et al.	D24/135
D617,455	S *	6/2010	Mori et al.	D24/135
D630,736	S *	1/2011	Wang	D24/135
D686,729	S *	7/2013	Christensen et al.	D24/150
D711,536	S *	8/2014	Velghe et al.	D24/150
2002/0022211	A1 *	2/2002	Horiguchi	433/140
2007/0208228	A1 *	9/2007	Pavento et al.	600/233
2007/0238933	A1 *	10/2007	Alinsod et al.	600/231

* cited by examiner

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(57) **CLAIM**

The ornamental design for a pupil expander, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the pupil expander of the present invention.

FIG. 2 is a front view of the pupil expander of the present invention.

FIG. 3 is a back view of the pupil expander of the present invention.

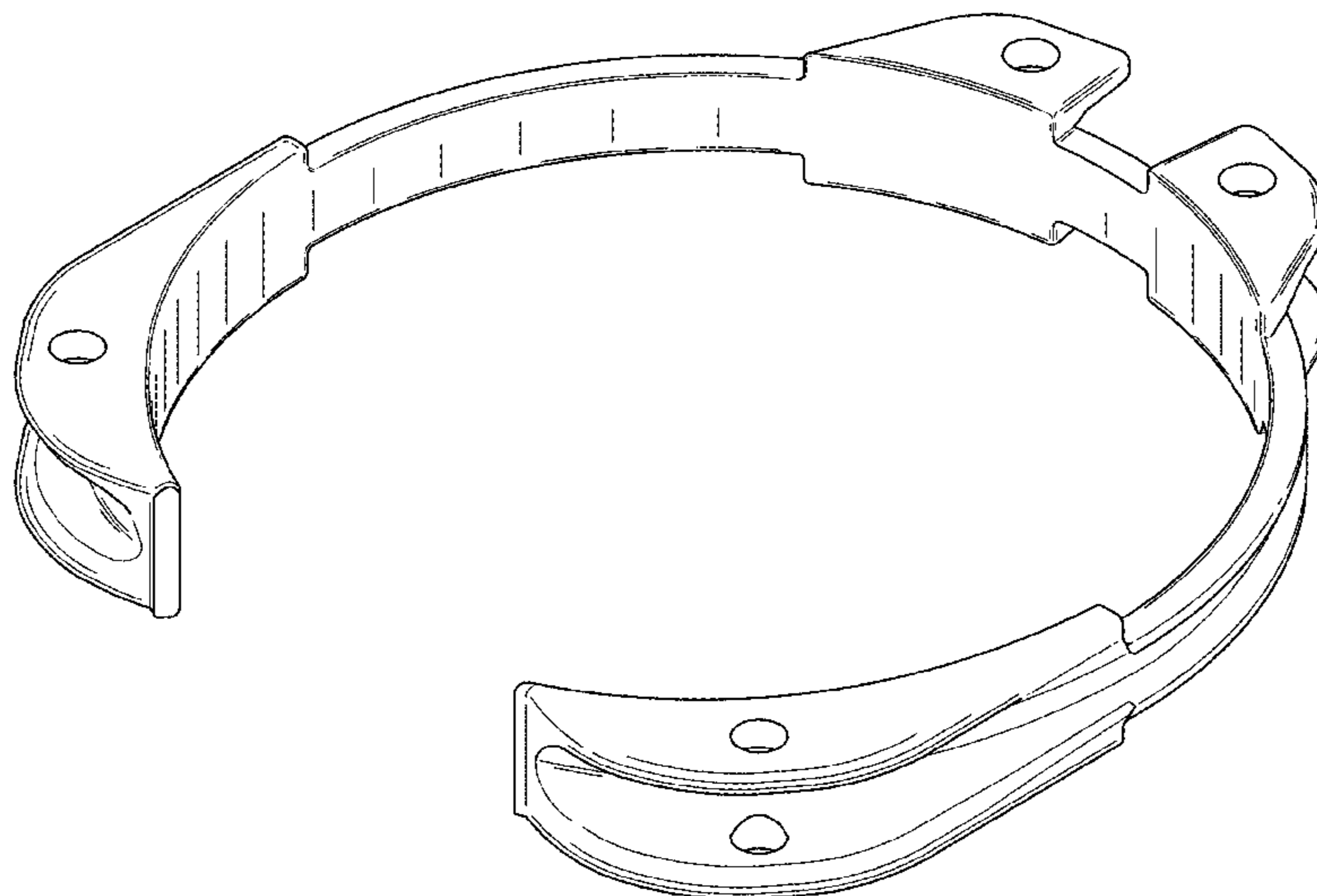
FIG. 4 is a first side view of the pupil expander of the present invention;

FIG. 5 is a second side view of the pupil expander of the present invention.

FIG. 6 is a top view of the pupil expander of the present invention; and,

FIG. 7 is a bottom view of the pupil expander of the present invention.

1 Claim, 4 Drawing Sheets



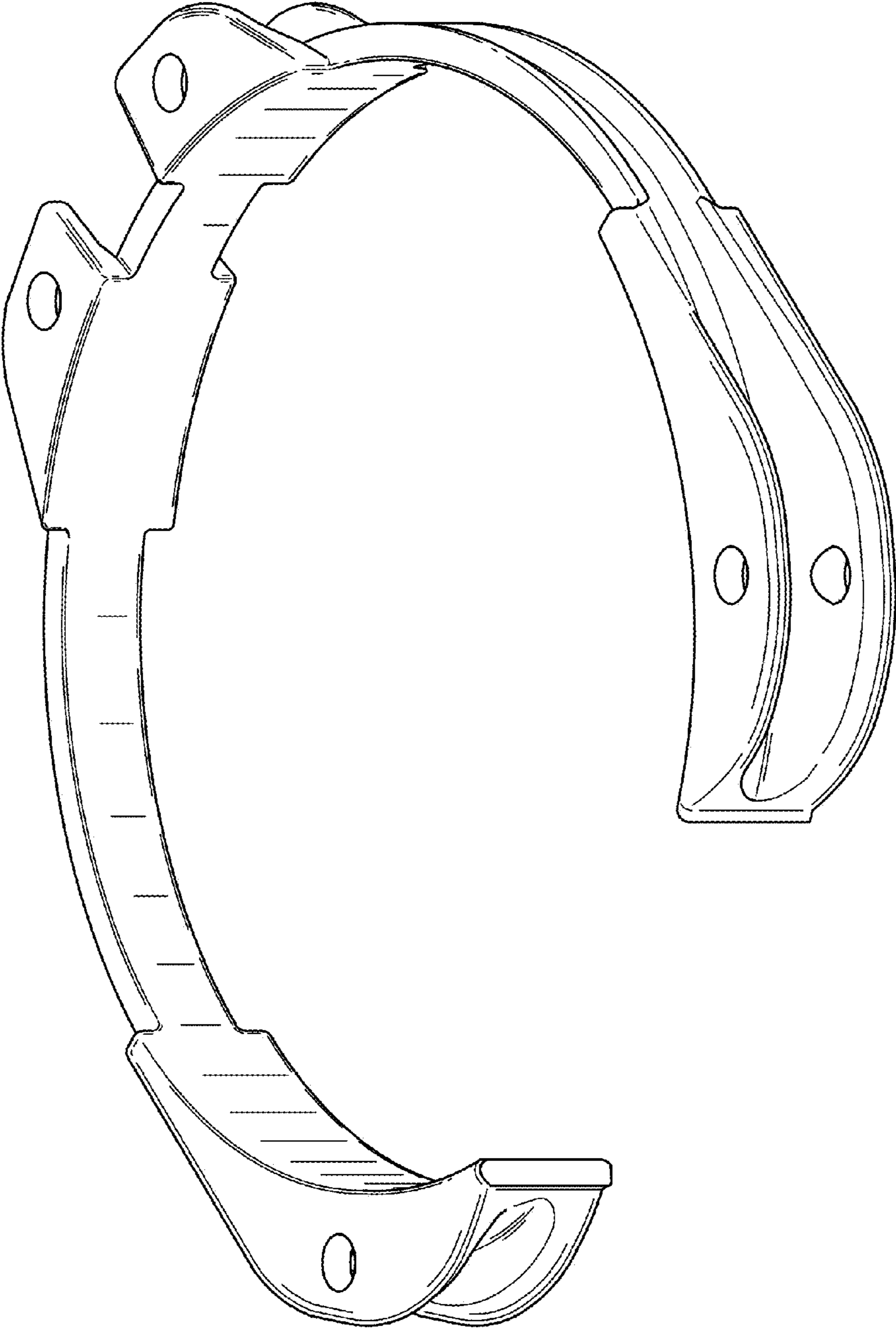


FIG. 1

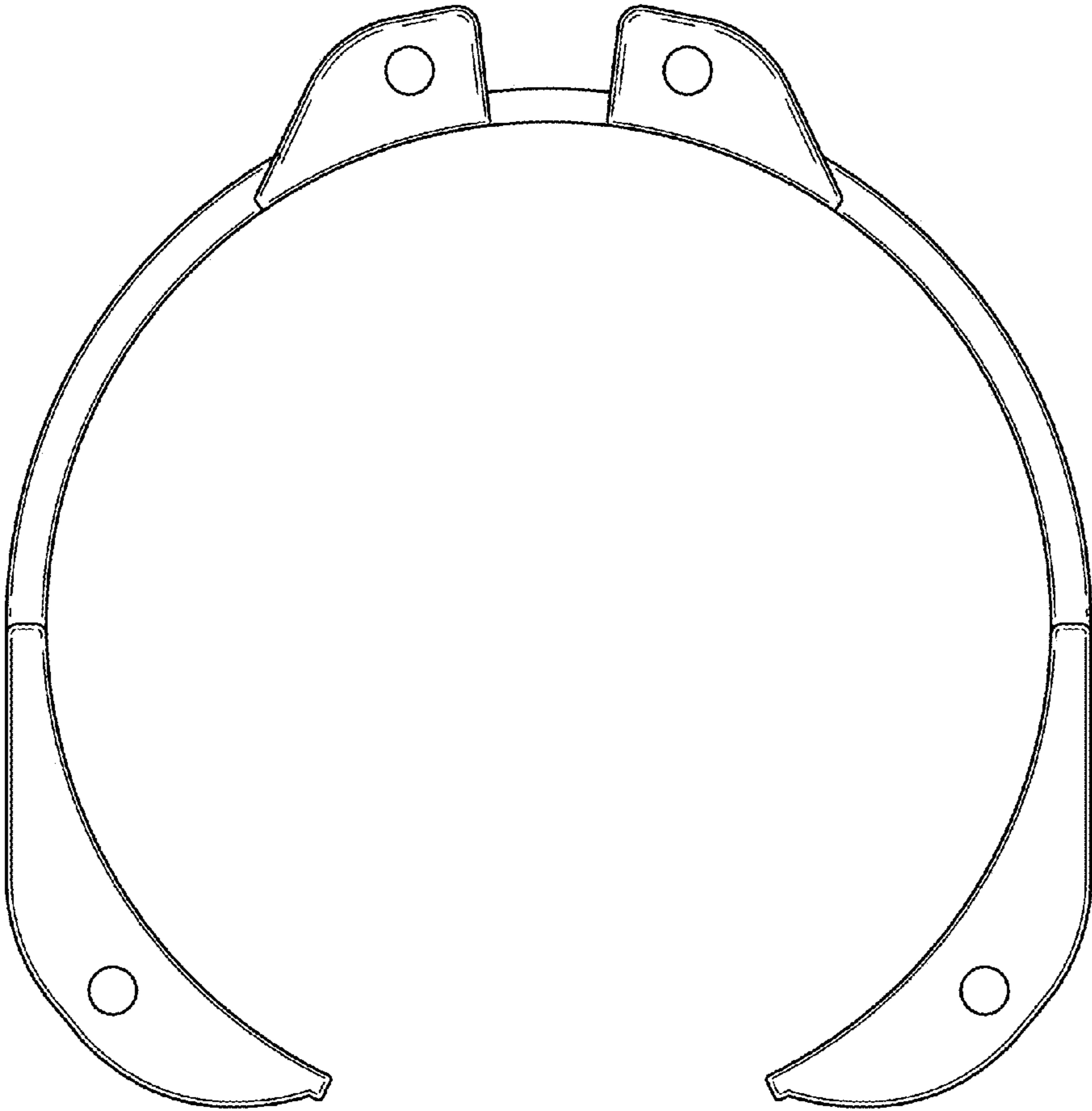


FIG. 2

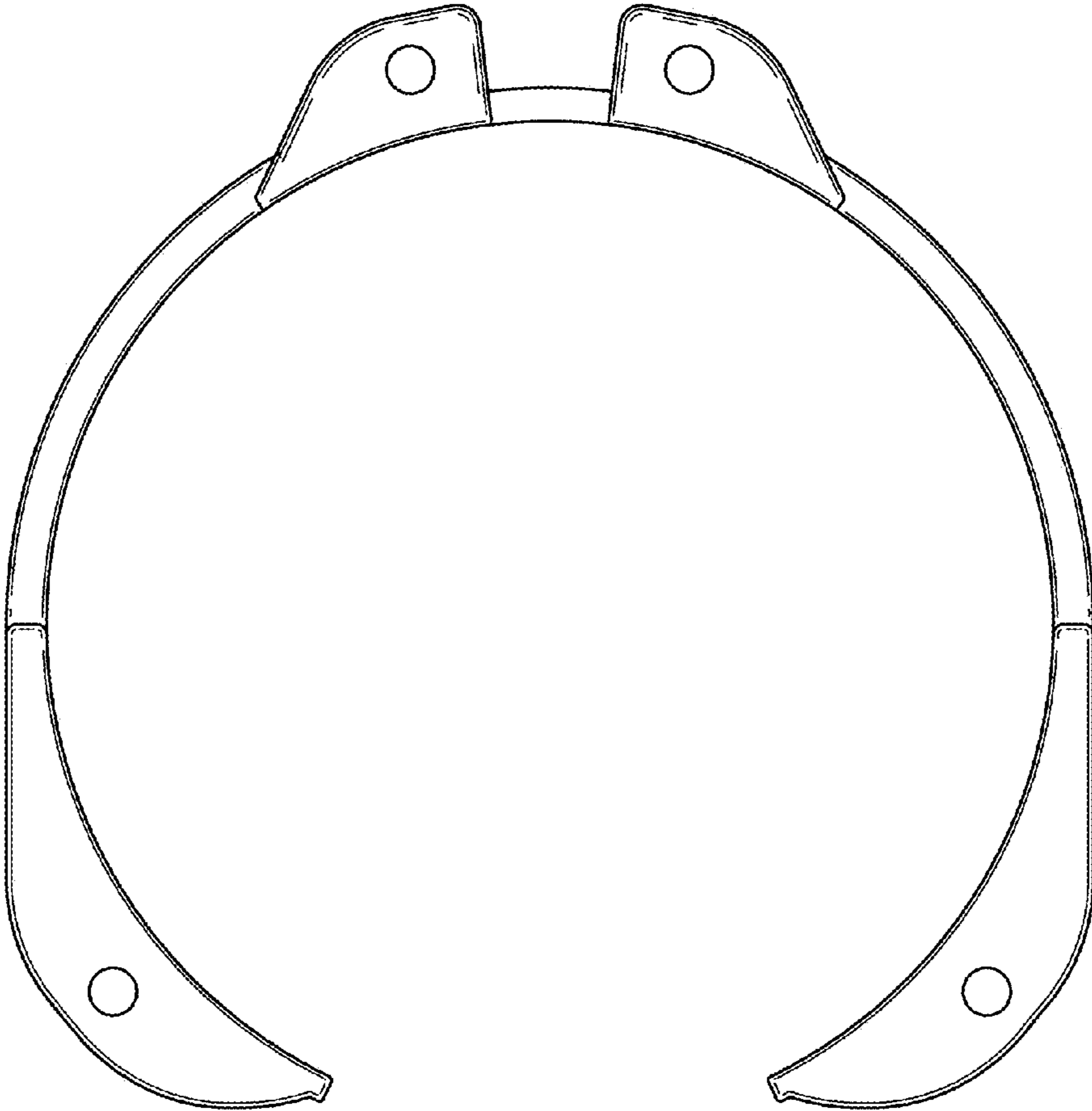


FIG. 3

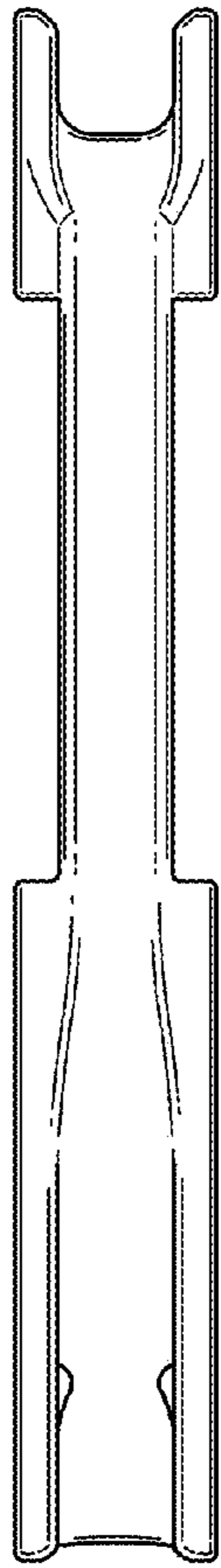


FIG. 4

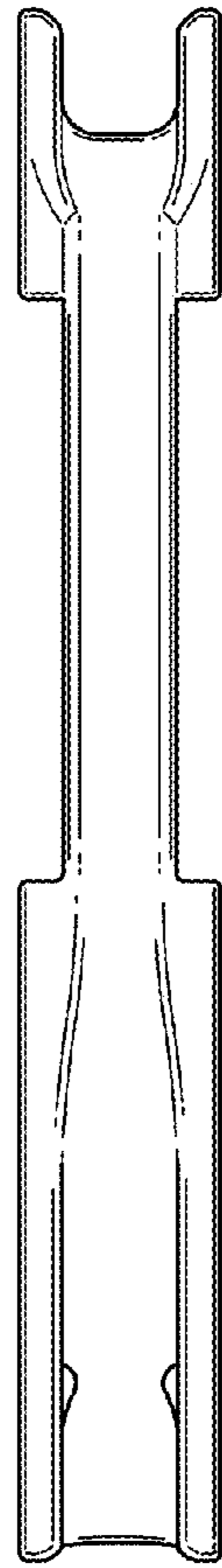


FIG. 5

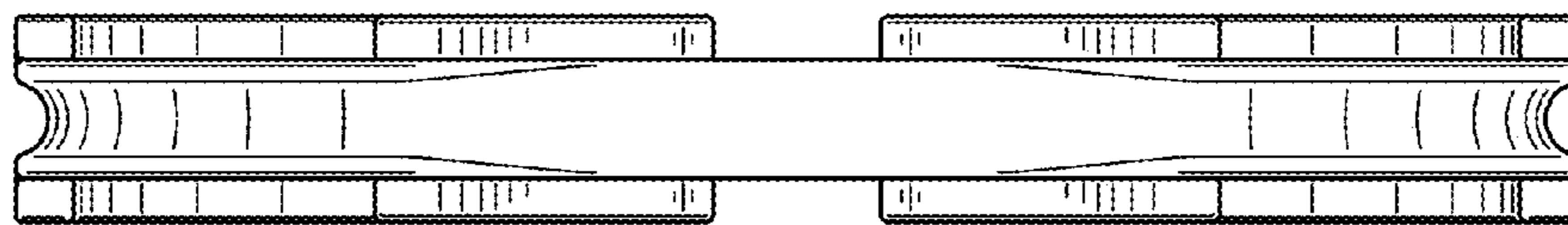


FIG. 6

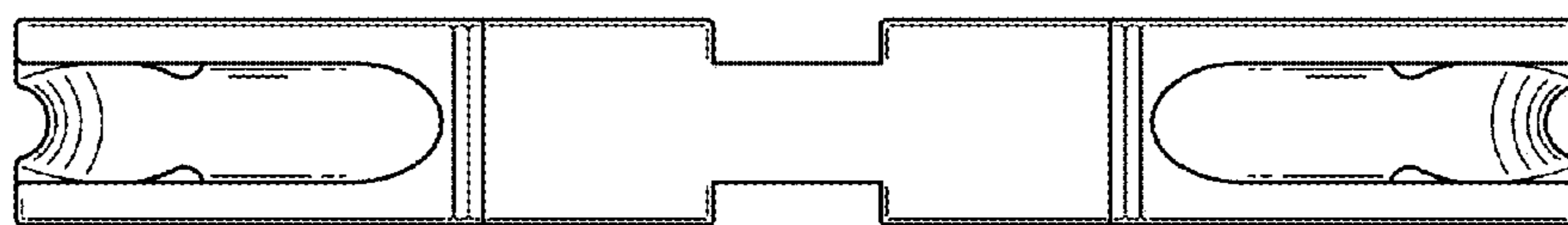


FIG. 7