



US00D658286S

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

(10) **Patent No.:** **US D658,286 S**  
(45) **Date of Patent:** **\*\* Apr. 24, 2012**

(54) **DOUBLE ENDED RETRACTOR**

(75) Inventors: **Chad Ryshkus**, Kansasville, WI (US);  
**Douglas J. Roger**, Rancho Mirage, CA (US)

(73) Assignee: **Greatbatch Ltd.**, Clarence, NY (US)

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

(21) Appl. No.: **29/398,354**

(22) Filed: **Jul. 29, 2011**

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

(52) **U.S. Cl.** ..... **D24/135**

(58) **Field of Classification Search** ..... D24/133,  
D24/135, 140; 606/191; 600/201, 214  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,381,685	A	5/1968	von Solbrig	
3,701,348	A *	10/1972	Navara	600/214
3,955,568	A	5/1976	Neufeld	
D275,227	S	8/1984	Garner	
4,642,121	A	2/1987	Keller	
4,934,352	A	6/1990	Sullivan	
D318,116	S	7/1991	Michelson	
5,217,463	A	6/1993	Mikhail	
5,351,680	A	10/1994	Jung	
5,431,153	A *	7/1995	Lee	600/183
D393,318	S	4/1998	Wolter	
5,743,853	A	4/1998	Lauderdale	
D395,510	S	6/1998	Furnish	
5,813,978	A *	9/1998	Jako	600/201
D420,130	S *	2/2000	Nicholas et al.	D24/135
D430,668	S *	9/2000	Koros et al.	D24/135
D433,134	S *	10/2000	Pitesky	D24/136
D442,687	S	5/2001	Schulz	
D449,689	S	10/2001	Comeau et al.	
6,428,472	B1	8/2002	Haas	
6,679,888	B2	1/2004	Green	
6,855,149	B2	2/2005	Dye	

6,926,728	B2	8/2005	Zucherman et al.
D522,140	S	5/2006	Stalcup et al.
D523,142	S	6/2006	Stalcup et al.
D531,310	S	10/2006	Wolter
7,214,186	B2	5/2007	Ritland
D568,471	S	5/2008	Engler
7,468,077	B2	12/2008	Rochetin

(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 201356580 12/2009

(Continued)

**OTHER PUBLICATIONS**

Innomed, Bent Hohmann Retractors.

(Continued)

*Primary Examiner* — Bridget L Eland

(74) *Attorney, Agent, or Firm* — Steven W. Winn

(57) **CLAIM**

The ornamental design for a double ended retractor, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a double ended retractor according to the present ornamental design.

FIG. 2 is a first side view of the double ended retractor shown in FIG. 1.

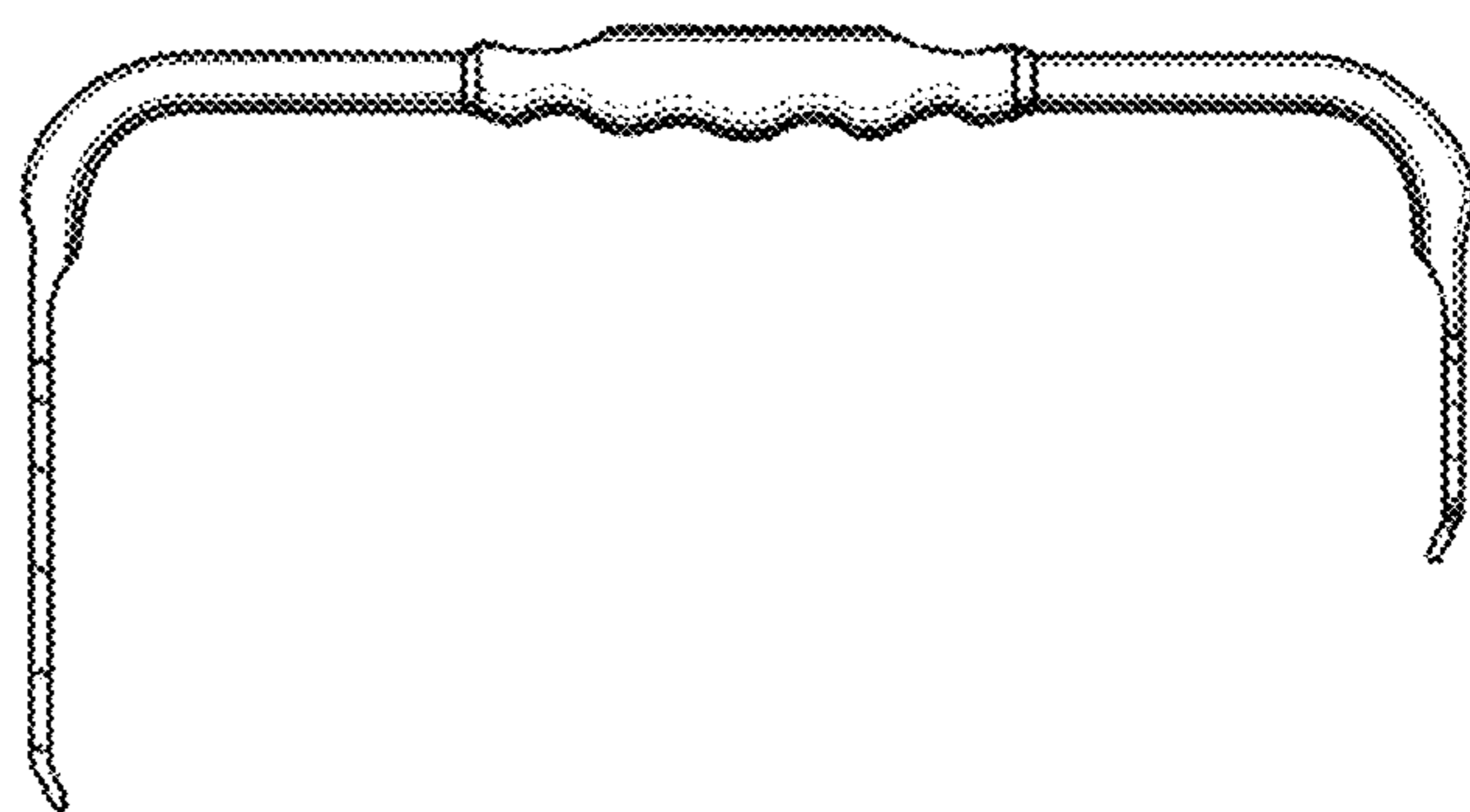
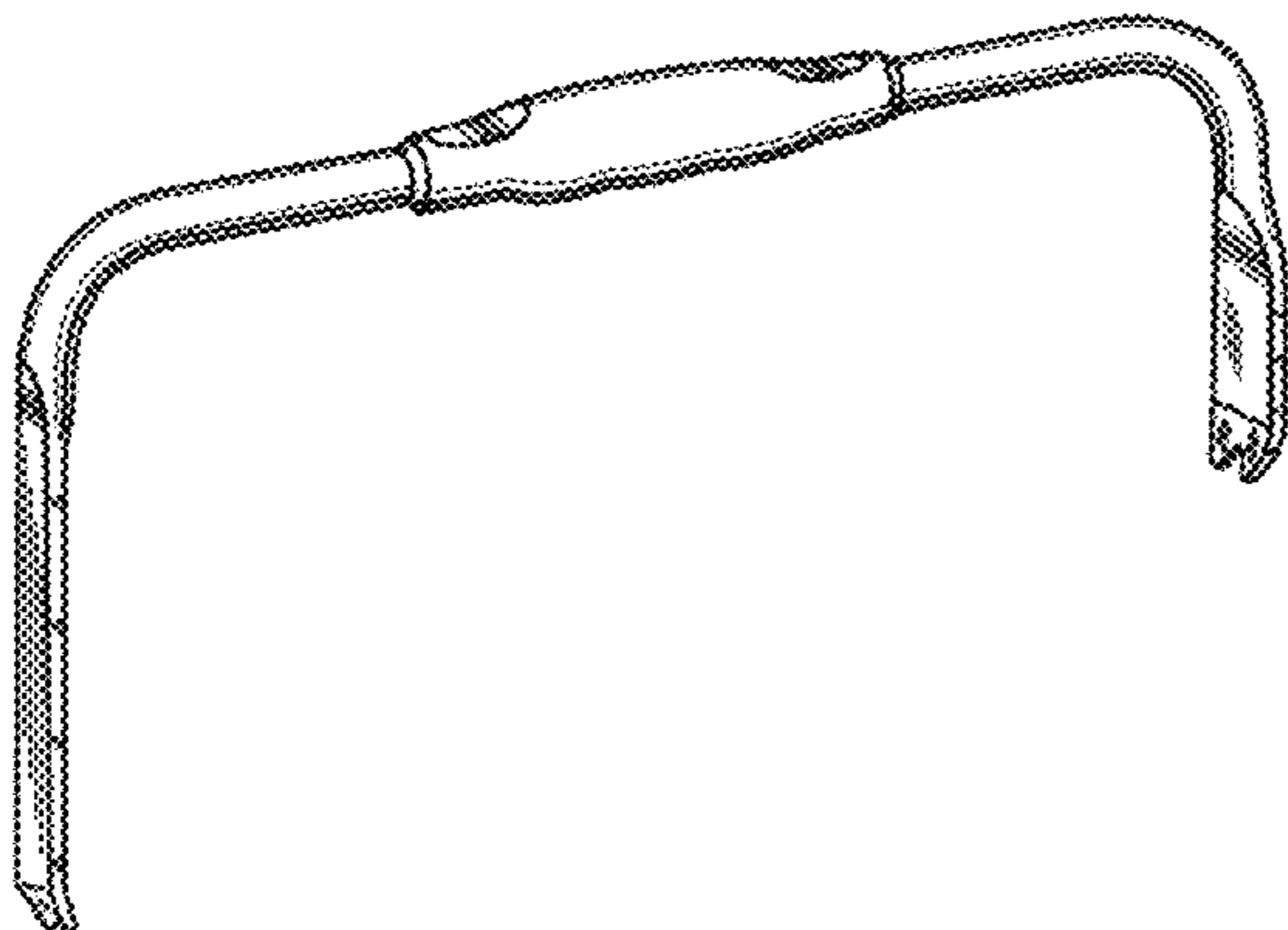
FIG. 3 is a top view of the double ended retractor shown in FIG. 1.

FIG. 4 is a second side view of the double ended retractor shown in FIG. 1.

FIG. 5 is a first end plan view of the double ended retractor shown in FIG. 1; and,

FIG. 6 is a second end plan view of the double ended retractor shown in FIG. 1.

**1 Claim, 5 Drawing Sheets**



# US D658,286 S

Page 2

## U.S. PATENT DOCUMENTS

D586,914 S \* 2/2009 DaSilva ..... D24/135  
D589,145 S 3/2009 Miller  
D628,291 S 11/2010 Palmer et al.  
D629,896 S 12/2010 Horton  
7,909,848 B2 3/2011 Patel et al.  
2005/0059978 A1 3/2005 Sherry et al.  
2005/0182301 A1 8/2005 Acker et al.  
2006/0189848 A1\* 8/2006 Penenberg ..... 600/210  
2007/0021655 A1 1/2007 Sayeg et al.  
2007/0060795 A1 3/2007 Vayser et al.  
2007/0066872 A1 3/2007 Morrison et al.  
2007/0083086 A1\* 4/2007 LeVahn et al. .... 600/210  
2007/0208226 A1 9/2007 Grey et al.

2008/0300465 A1\* 12/2008 Feigenwinter et al. .... 600/201  
2009/0216089 A1 8/2009 Davidson  
2010/0125171 A1\* 5/2010 Kelner ..... 600/201

## FOREIGN PATENT DOCUMENTS

EP 0986329 11/2009  
JP 2003310624 11/2003

## OTHER PUBLICATIONS

Innomed, Cobra Retractors.  
Innomed, Minimally Invasive Hip Surgery Retractors.  
Innomed, Mueller-Type Femoral Neck Retractor.

\* cited by examiner

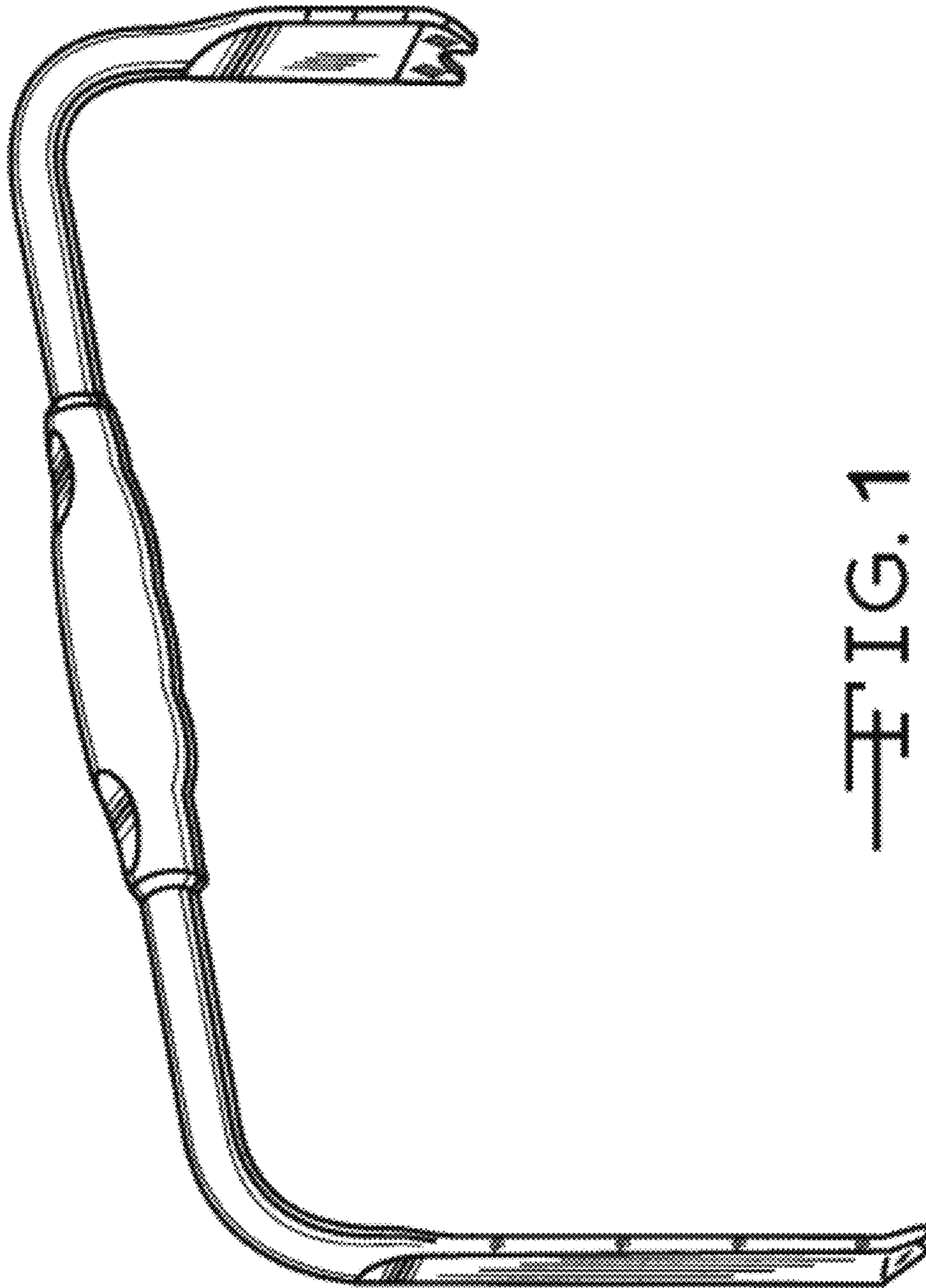


FIG. 1

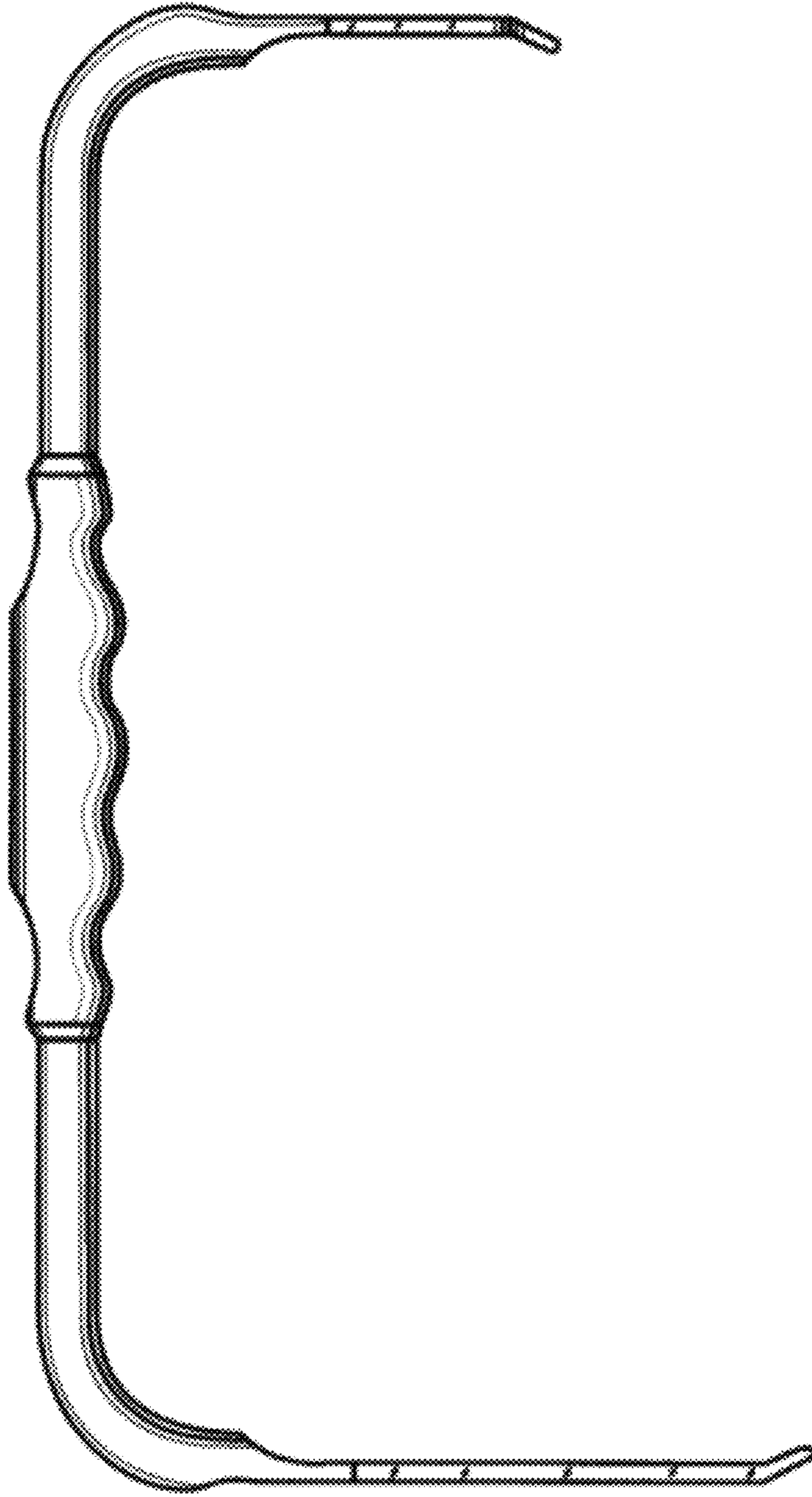


FIG. 2

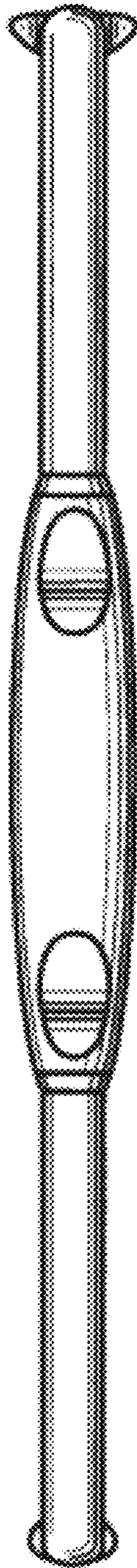


FIG. 3

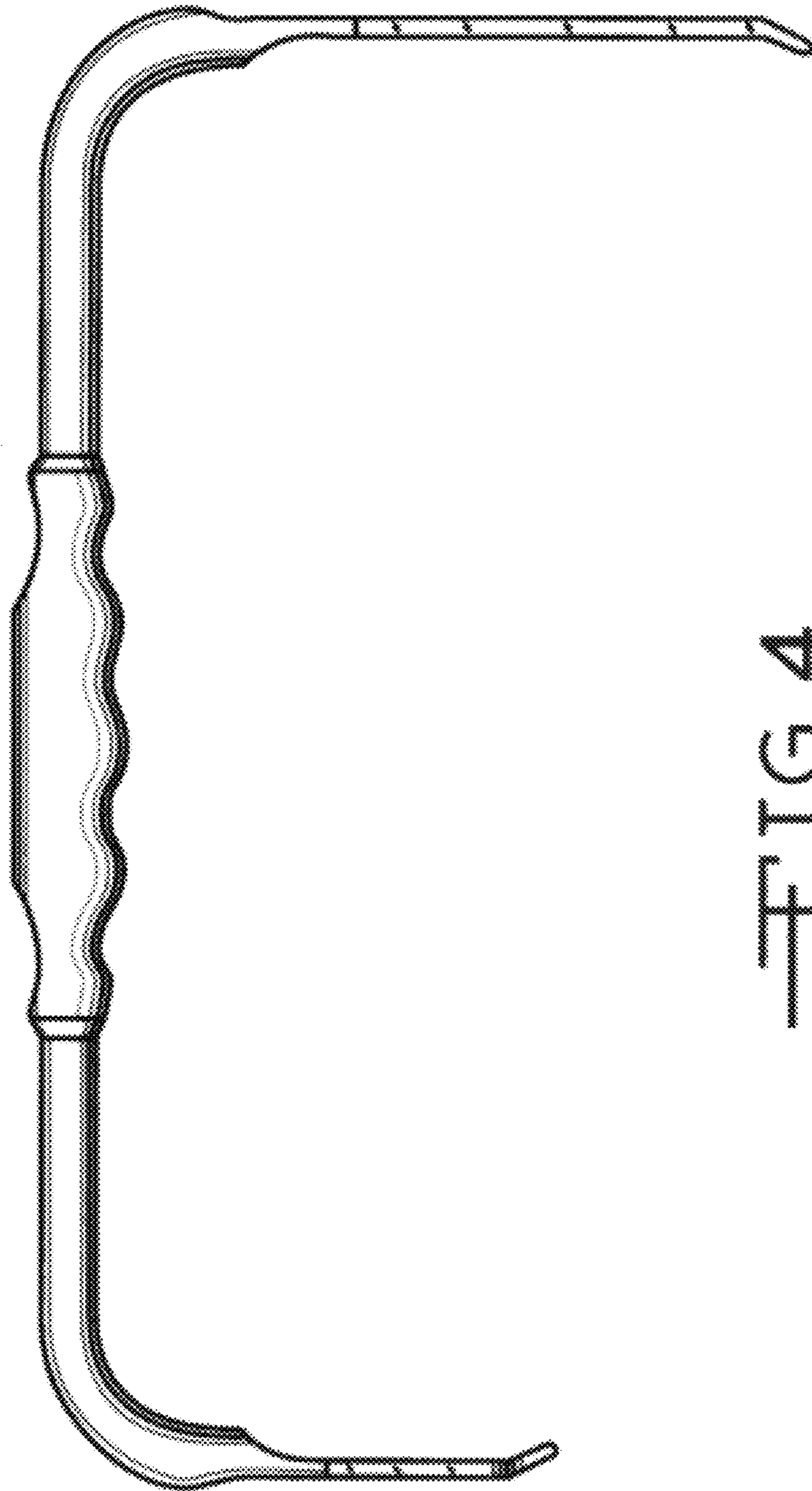


FIG. 4



FIG. 6



FIG. 5