



US00D814285S

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

(10) **Patent No.:** **US D814,285 S**

(45) **Date of Patent:** **\*\* Apr. 3, 2018**

- (54) **EXPANDABLE SEALING MECHANISM**
- (71) Applicant: **Press-Seal Corporation**, Fort Wayne, IN (US)
- (72) Inventors: **Graham E. Blackwood**, Fort Wayne, IN (US); **Katherine A. Bergfeld**, Waterville, OH (US); **Michael R. Miller**, Churubusco, IN (US); **John M. Kaczmarczyk**, Angola, IN (US); **James W. Skinner**, Fort Wayne, IN (US)
- (73) Assignee: **Press-Seal Corporation**, Fort Wayne, IN (US)
- (\*\*) Term: **15 Years**

2,767,455 A *	10/1956	Schaefer	.....	F16L 33/08
				24/274 P
2,877,732 A *	3/1959	Eaton	.....	F16L 37/12
				114/22
3,396,439 A *	8/1968	Schaub	.....	F16L 33/08
				24/274 P
3,474,832 A *	10/1969	Broadhead	.....	F16L 21/022
				138/97
3,537,147 A *	11/1970	Pfeuffer	.....	F16L 33/035
				24/20 TT
4,246,690 A *	1/1981	Meckstroth	.....	F16L 33/04
				24/279
4,310,956 A *	1/1982	Meckstroth	.....	F16L 33/04
				24/20 LS
D273,841 S *	5/1984	Chace	.....	D22/199
D289,141 S *	4/1987	Tunno	.....	D8/394
4,819,307 A *	4/1989	Turner	.....	F16L 33/04
				24/20 S

- (21) Appl. No.: **29/542,569**
- (22) Filed: **Oct. 15, 2015**

**Related U.S. Application Data**

- (62) Division of application No. 29/478,201, filed on Jan. 2, 2014.
- (51) **LOC (11) Cl.** ..... **08-08**
- (52) **U.S. Cl.**  
USPC ..... **D8/396**
- (58) **Field of Classification Search**  
USPC ..... D8/72, 383, 394-396  
CPC ..... F16L 21/005; F16L 35/02; F16L 3/233;  
F16L 33/08; F16L 33/04; B65D 45/32  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,487,296 A *	11/1949	Bergstrom	.....	F16L 33/08
				24/274 R
2,580,396 A *	1/1952	Bluth	.....	F16B 2/065
				114/22
2,730,782 A *	1/1956	Ludwinski	.....	F16L 33/08
				24/274 R

(Continued)

*Primary Examiner* — John Windmuller

(74) *Attorney, Agent, or Firm* — Faegre Baker Daniels LLP

(57) **CLAIM**

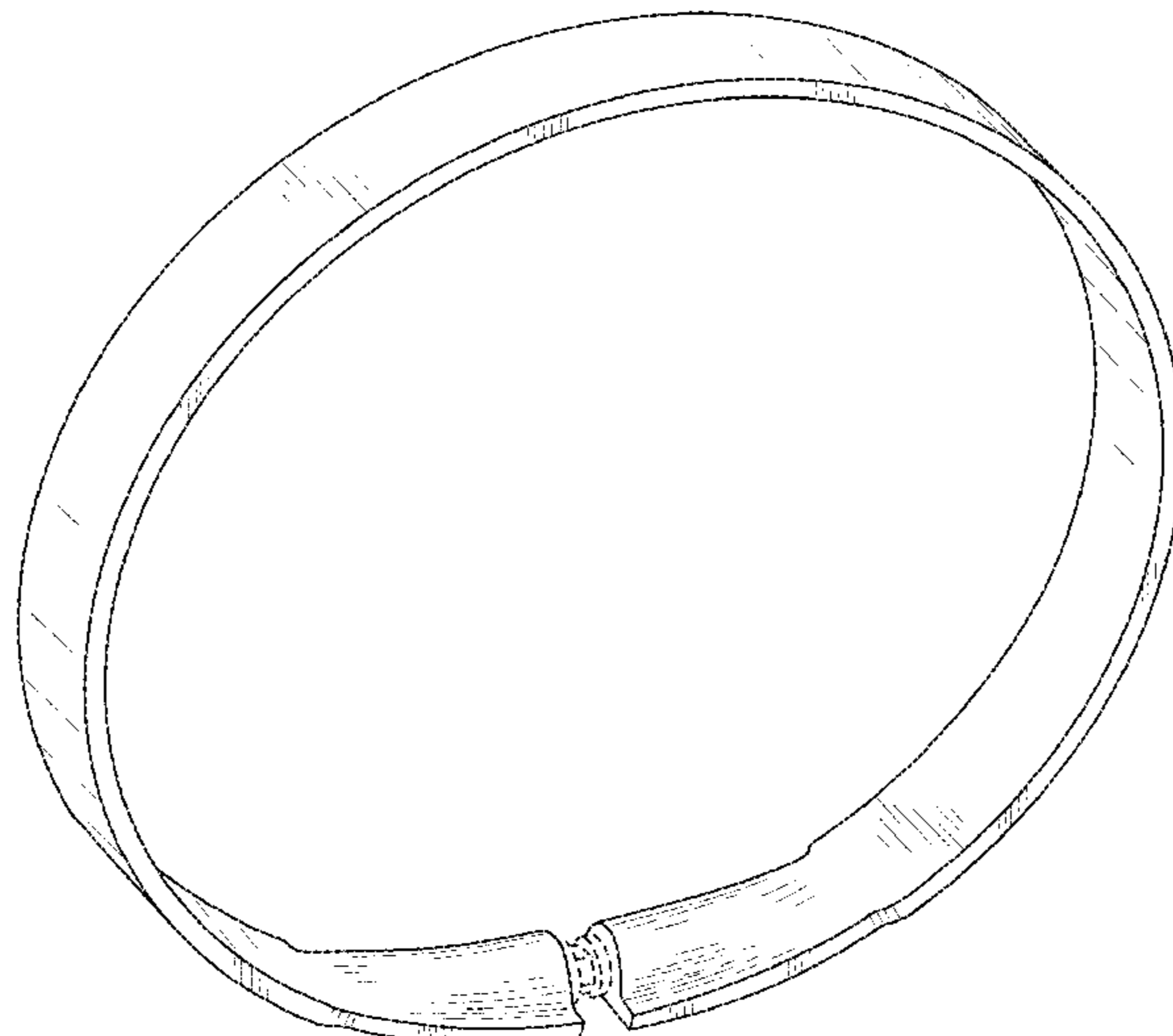
The ornamental design for an expandable sealing mechanism, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of an expansion band showing our new design;  
FIG. 2 is a front elevation view thereof;  
FIG. 3 is a top plan view thereof;  
FIG. 4 is a bottom plan view thereof; and,  
FIG. 5 is a side elevation view thereof, it being understood that left and right side views of the sealing assembly are identical.

The broken lines in the figures represent portions of the expandable sealing mechanism that form no part of the claimed design.

**1 Claim, 3 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

4,872,780 A \* 10/1989 Bowman ..... E02D 29/124  
404/26  
D304,676 S \* 11/1989 Glynn ..... D23/265  
4,956,898 A \* 9/1990 Miyamura ..... F16L 33/08  
24/20 LS  
D315,306 S \* 3/1991 Reister ..... D28/73  
5,044,822 A \* 9/1991 Moss ..... B64F 1/36  
210/165  
5,316,407 A \* 5/1994 Miller ..... E02D 29/14  
404/25  
5,474,396 A \* 12/1995 Bravo ..... E02D 29/14  
404/26  
5,504,978 A \* 4/1996 Meyer, III ..... F16L 33/08  
24/269  
5,738,359 A \* 4/1998 Gundy ..... B25B 27/00  
24/20 R  
5,743,673 A \* 4/1998 Bravo ..... E02D 29/14  
404/25  
5,787,555 A \* 8/1998 Chen ..... F16L 33/08  
24/19  
5,809,619 A \* 9/1998 Schaub ..... F16L 33/08  
24/274 R  
5,851,038 A \* 12/1998 Robinson ..... F16L 23/08  
24/279  
5,956,817 A \* 9/1999 Chen ..... F16L 33/08  
24/274 R  
D424,566 S \* 5/2000 Baker ..... D14/217  
6,152,455 A \* 11/2000 Brockway ..... B25B 25/005  
24/20 R  
D442,852 S \* 5/2001 Gopalraja ..... D8/395

D442,853 S \* 5/2001 Gopalraja ..... D8/395  
6,305,054 B1 \* 10/2001 Ines ..... F01N 13/1805  
24/276  
6,805,359 B2 \* 10/2004 Neuhaus ..... F16L 5/02  
277/576  
6,866,301 B2 \* 3/2005 Brockway ..... F16L 55/163  
285/230  
7,146,689 B2 \* 12/2006 Neuhaus ..... F16L 5/02  
24/279  
D546,666 S \* 7/2007 Mohlin ..... D8/396  
7,243,956 B2 \* 7/2007 Brockway ..... F16L 33/213  
277/576  
7,263,746 B2 \* 9/2007 Neuhaus ..... F16L 5/02  
24/279  
D559,095 S \* 1/2008 Lalancette ..... D8/396  
7,500,701 B2 \* 3/2009 Lalancette ..... F16B 5/0275  
292/256  
D600,107 S \* 9/2009 Stewart ..... D8/383  
D609,997 S \* 2/2010 Andersson ..... D23/265  
D625,175 S \* 10/2010 Balcell Comas ..... D8/396  
D632,555 S \* 2/2011 Sarkissian ..... D8/396  
D647,394 S \* 10/2011 Taylor ..... B65D 45/345  
D8/396  
D653,103 S \* 1/2012 Tomasi ..... D8/396  
D653,529 S \* 2/2012 Tomasi ..... D8/396  
D653,530 S \* 2/2012 Hammond ..... D8/396  
D654,785 S \* 2/2012 Clorley ..... D8/396  
D676,738 S \* 2/2013 Hammond ..... D8/396  
D703,033 S \* 4/2014 Karlsson ..... D8/396  
2009/0051125 A1 \* 2/2009 Skinner ..... F16L 55/163  
277/609  
2014/0191503 A1 \* 7/2014 Skinner ..... F16L 5/02  
285/338

\* cited by examiner

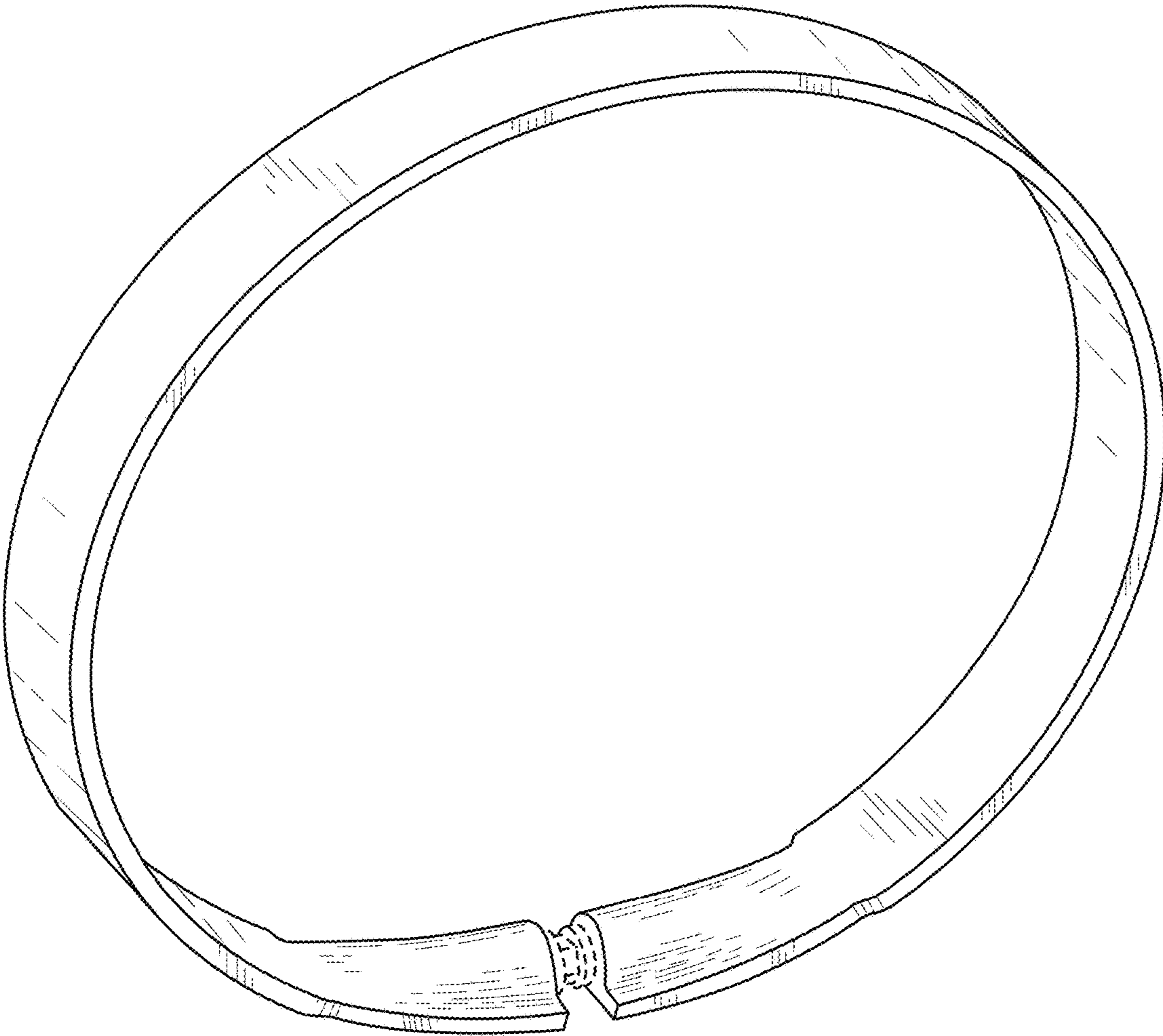


FIG. 1

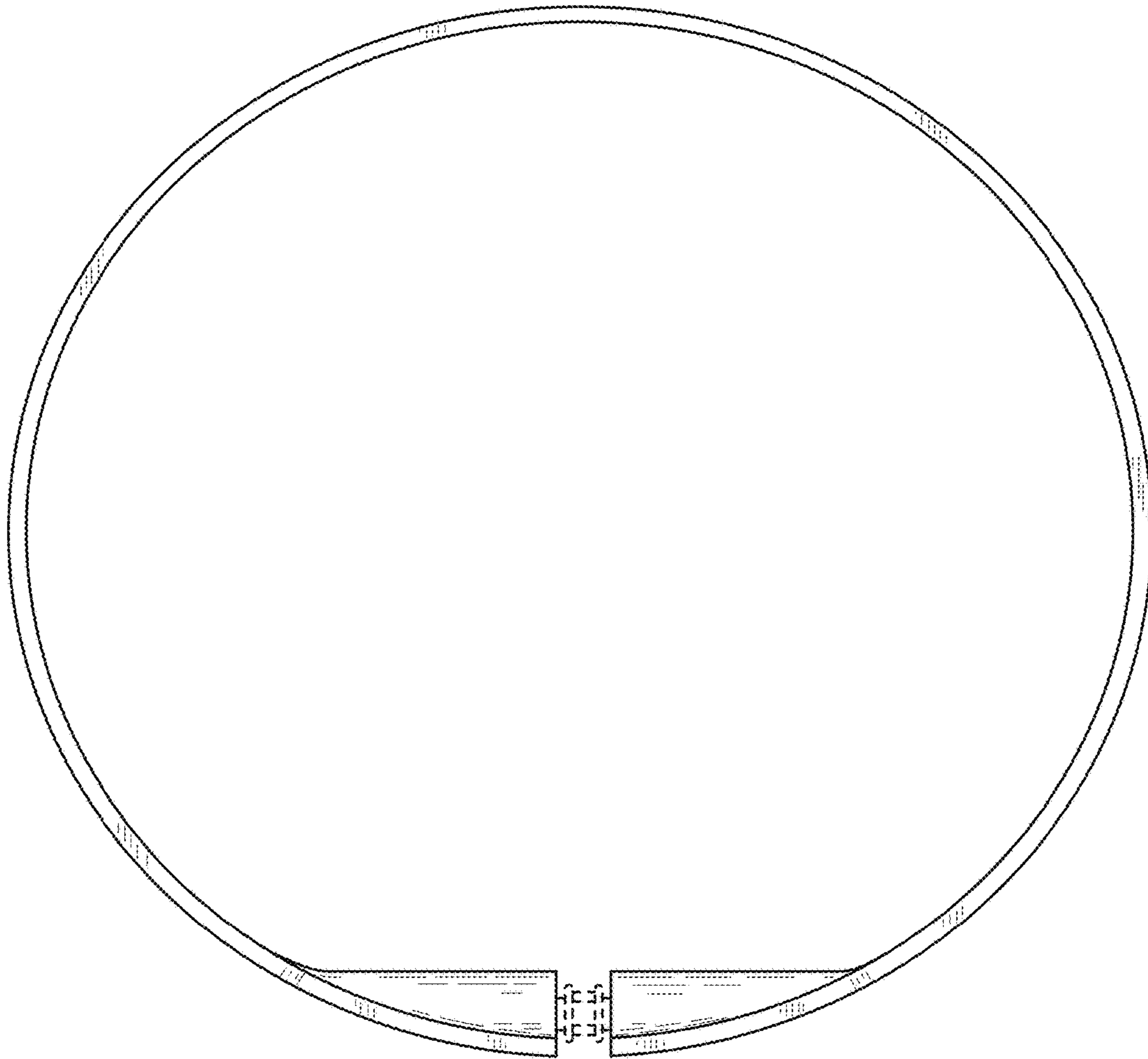


FIG. 2



FIG. 3

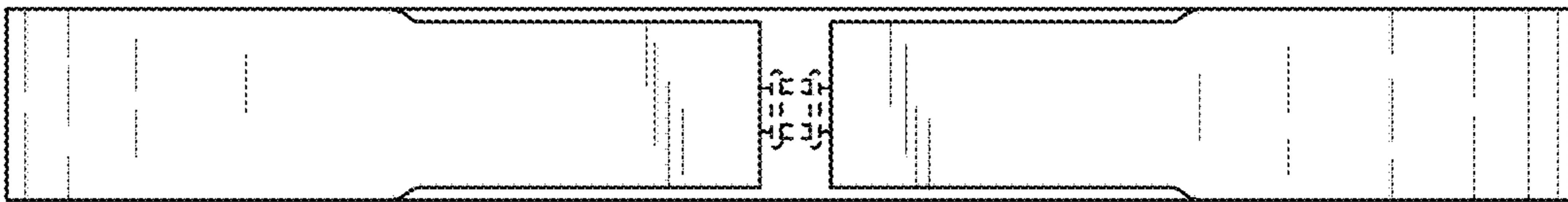


FIG. 4

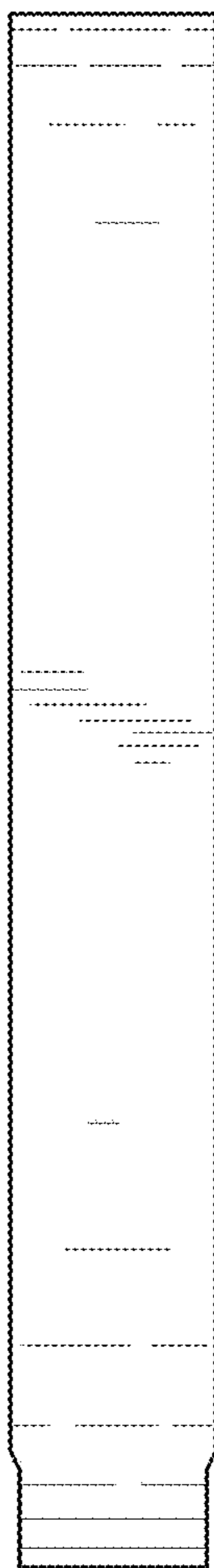


FIG. 5