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

(10) **Patent No.:** **US D682,162 S**

(45) **Date of Patent:** **\*\* May 14, 2013**

(54) **QUADRIPLLEGIC MANUAL PUSH RIMS  
WITH ANGLED GROVES**

D395,623 S \* 6/1998 Yang ..... D12/133  
7,497,456 B2 \* 3/2009 Willems et al. .... 280/304.1  
D635,063 S \* 3/2011 Hildebrant ..... D12/133

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(US)

\* cited by examiner

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

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(21) Appl. No.: **29/395,253**

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(22) Filed: **Dec. 27, 2011**

(57) **CLAIM**

The ornamental design for a quadriplegic manual push rims with angled groves, as shown and described.

(51) **LOC (9) Cl.** ..... **12-12**

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

USPC ..... **D12/133**

(58) **Field of Classification Search** ..... D12/128–133;  
280/62, 647–650, 29, 200, 47.38, 250.1,  
280/259, 642, 658, 304.1; 128/99.1, 100.1  
See application file for complete search history.

**DESCRIPTION**

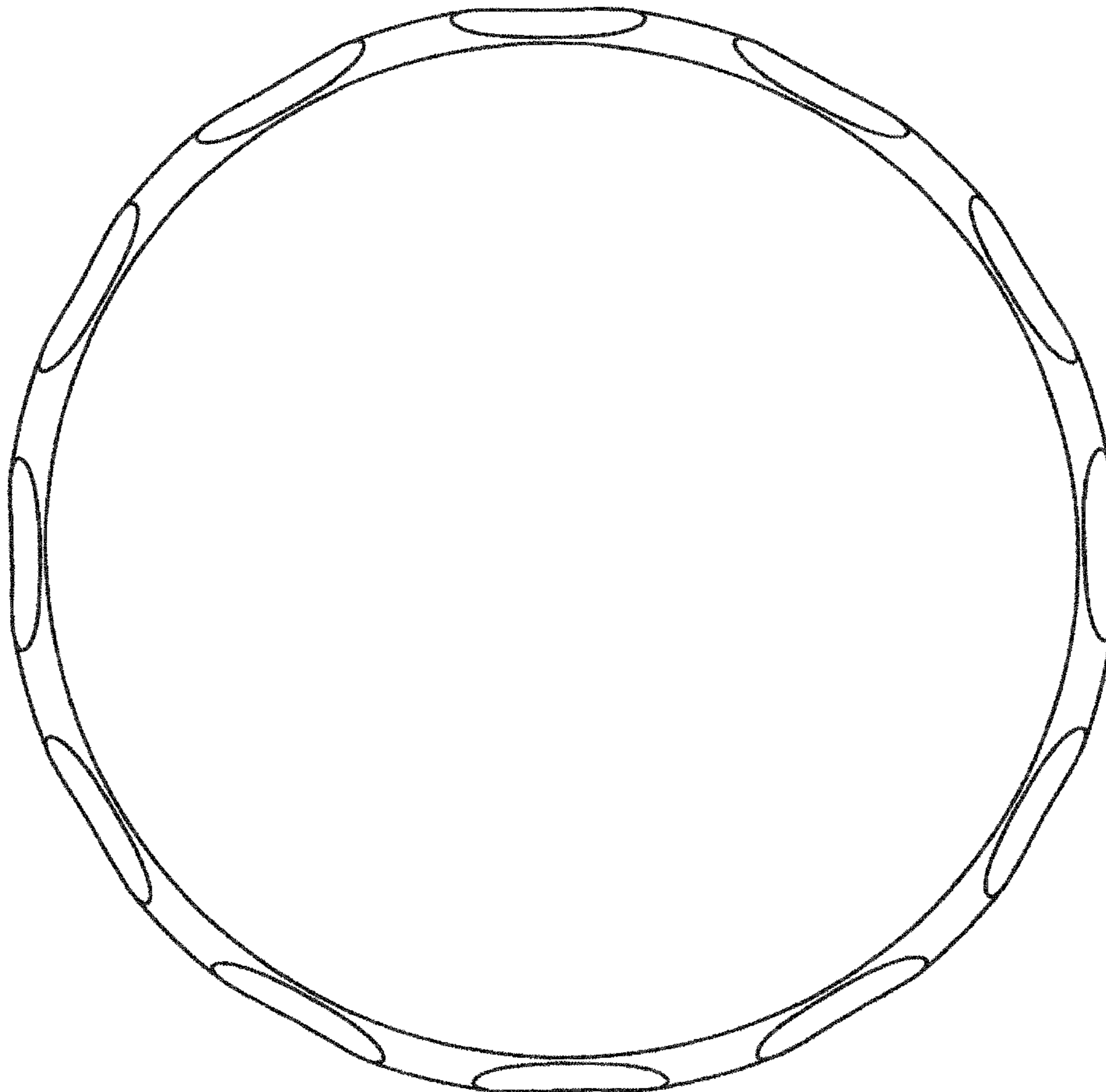
FIG. 1 is a front view of a quadriplegic manual push rims with angled groves showing my new design;  
FIG. 2 is a back view thereof;  
FIG. 3 is a right side view thereof;  
FIG. 4 is a back perspective view thereof;  
FIG. 5 is a top view thereof;  
FIG. 6 is a bottom side view thereof; and,  
FIG. 7 is a left side view thereof.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D304,815 S \* 11/1989 Jones ..... D12/133  
5,101,536 A \* 4/1992 Gabriele ..... 16/386

**1 Claim, 7 Drawing Sheets**



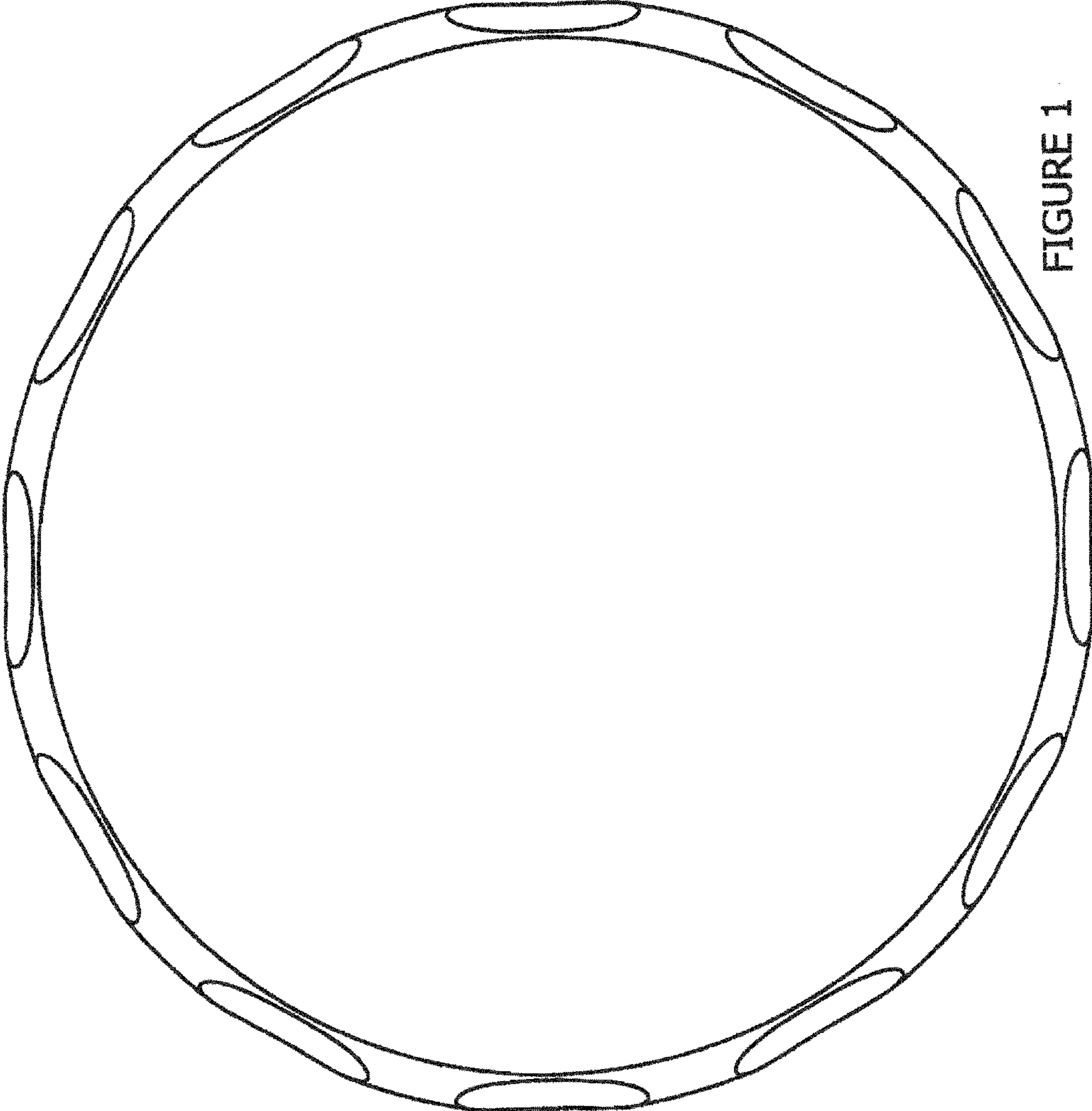


FIGURE 1

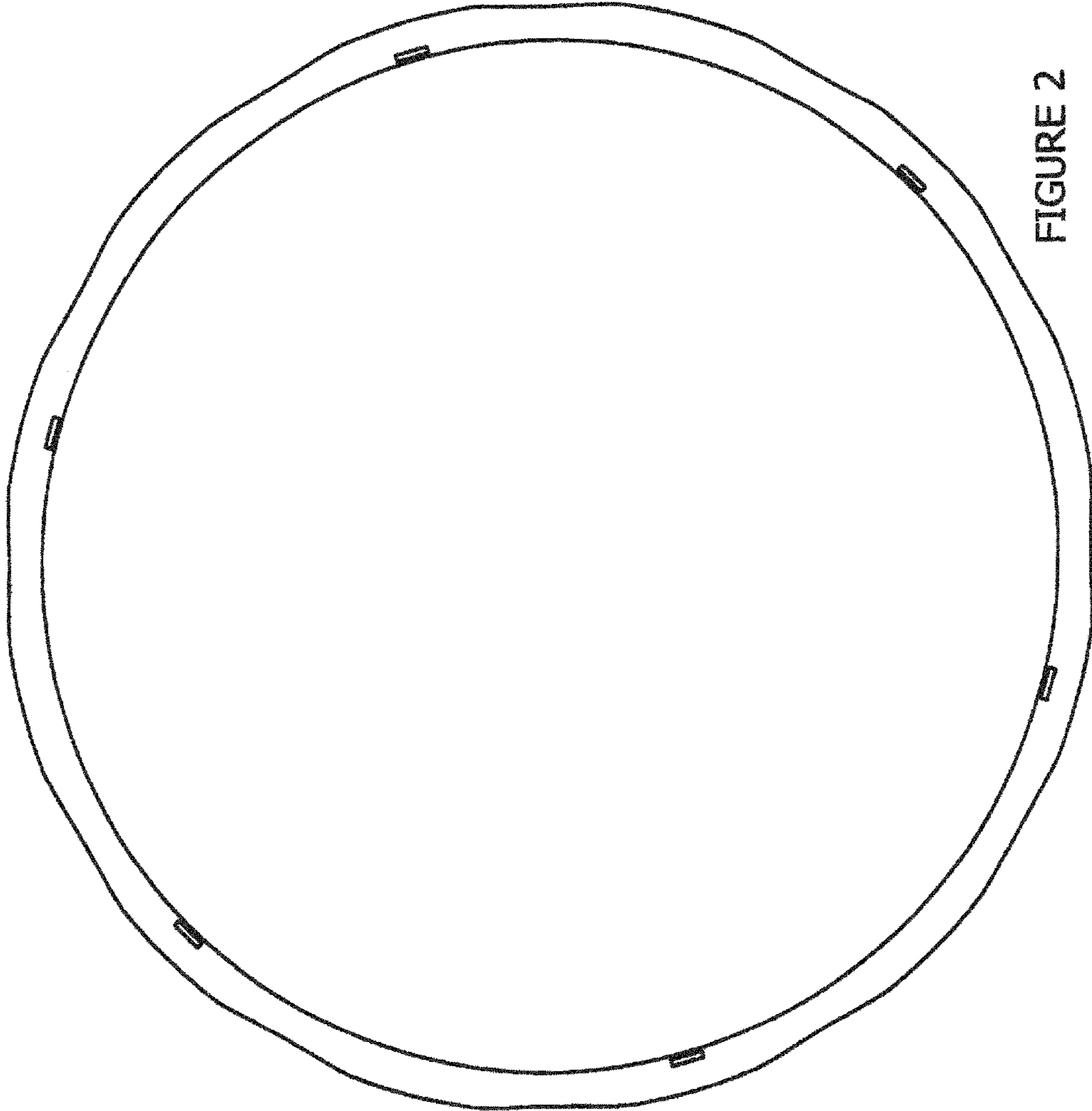


FIGURE 2

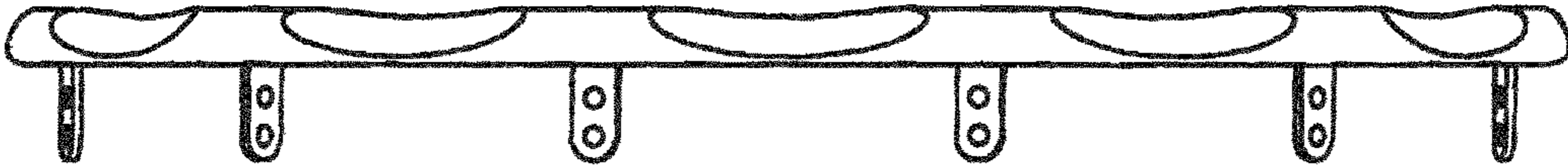


FIGURE 3

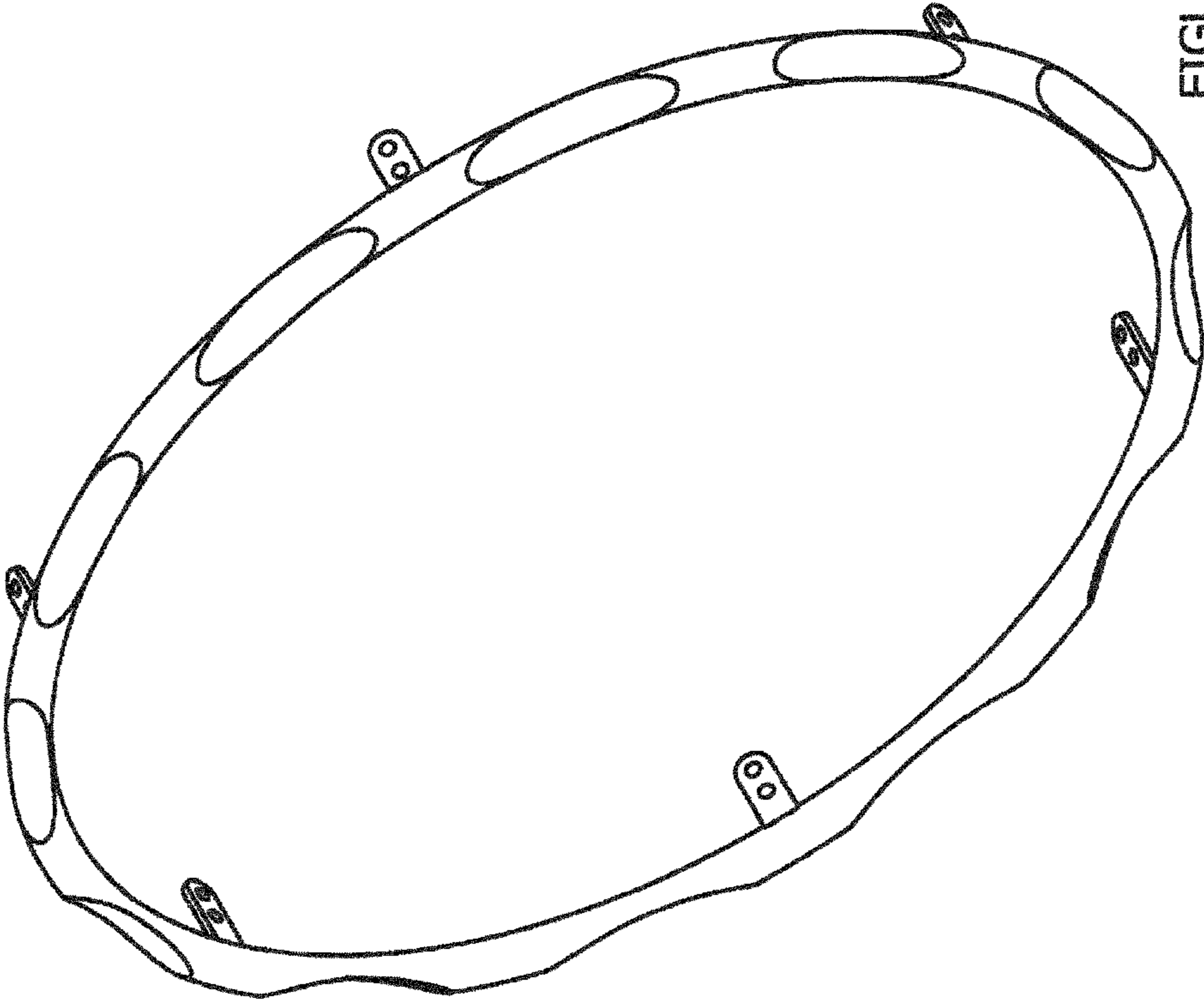


FIGURE 4



FIGURE 5



FIGURE 6

FIGURE 7

