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

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(45) **Date of Patent:** **\*\* Sep. 2, 2014**

(54) **ALUMINUM CLINCH**

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

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(30) **Foreign Application Priority Data**

Sep. 11, 2012 (CN) ..... 2012 3 0434402

(51) **LOC (10) Cl.** ..... **08-08**

(52) **U.S. Cl.**  
USPC ..... **D8/382**

(58) **Field of Classification Search**  
USPC ..... D8/349, 354, 367, 382, 396; D11/3, 4;  
248/200, 300; 272/575  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,547,257 A \* 4/1951 Cole ..... 277/575  
4,052,077 A \* 10/1977 MacArthur et al. .... 277/575

4,133,092 A \* 1/1979 MacArthur et al. .... 29/417  
D366,825 S \* 2/1996 Cox ..... D8/382  
D405,381 S \* 2/1999 Perrin et al. .... D11/4  
D468,657 S \* 1/2003 Calvani et al. .... D11/12  
D520,396 S \* 5/2006 Park ..... D11/4  
D549,086 S \* 8/2007 Fujiwara et al. .... D8/382  
D690,191 S \* 9/2013 Takakuwa et al. .... D8/396

\* cited by examiner

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Lowe, P.C.

(57) **CLAIM**

The ornamental design for an aluminum clinch, as shown and  
described.

**DESCRIPTION**

FIG. 1 is a front elevational view of an aluminum clinch  
according to the present invention.

FIG. 2 is a rear elevational view of the aluminum clinch of  
FIG. 1.

FIG. 3 is a left side elevational view of the aluminum clinch of  
FIG. 1.

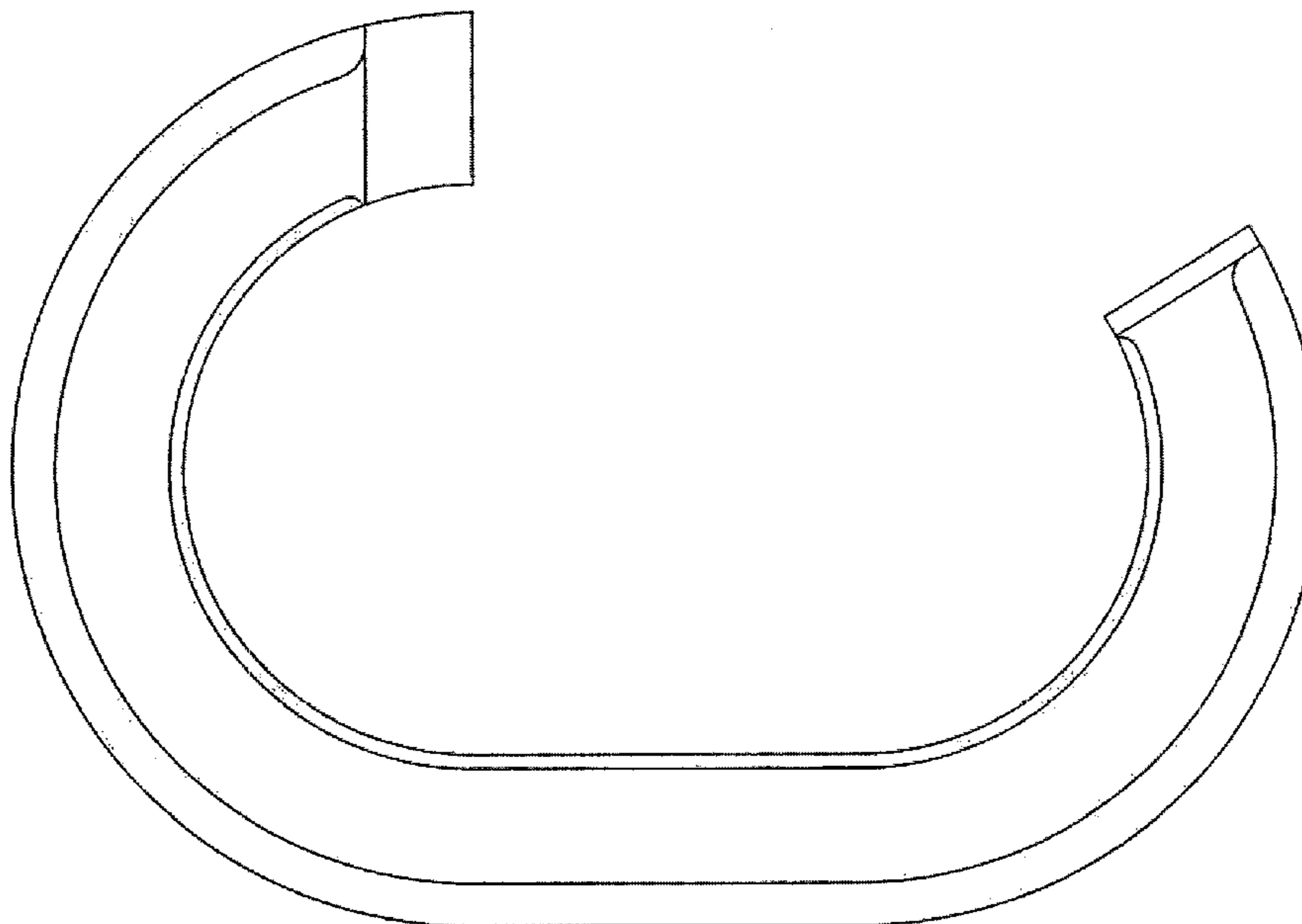
FIG. 4 is a right side elevational view of the aluminum clinch  
of FIG. 1.

FIG. 5 is a top plan view of the aluminum clinch of FIG. 1.

FIG. 6 is a bottom plan view of the aluminum clinch of FIG.  
1; and,

FIG. 7 is a perspective view of the aluminum clinch of FIG. 1.  
The broken lines represent environment and form no part of  
the claimed design.

**1 Claim, 7 Drawing Sheets**



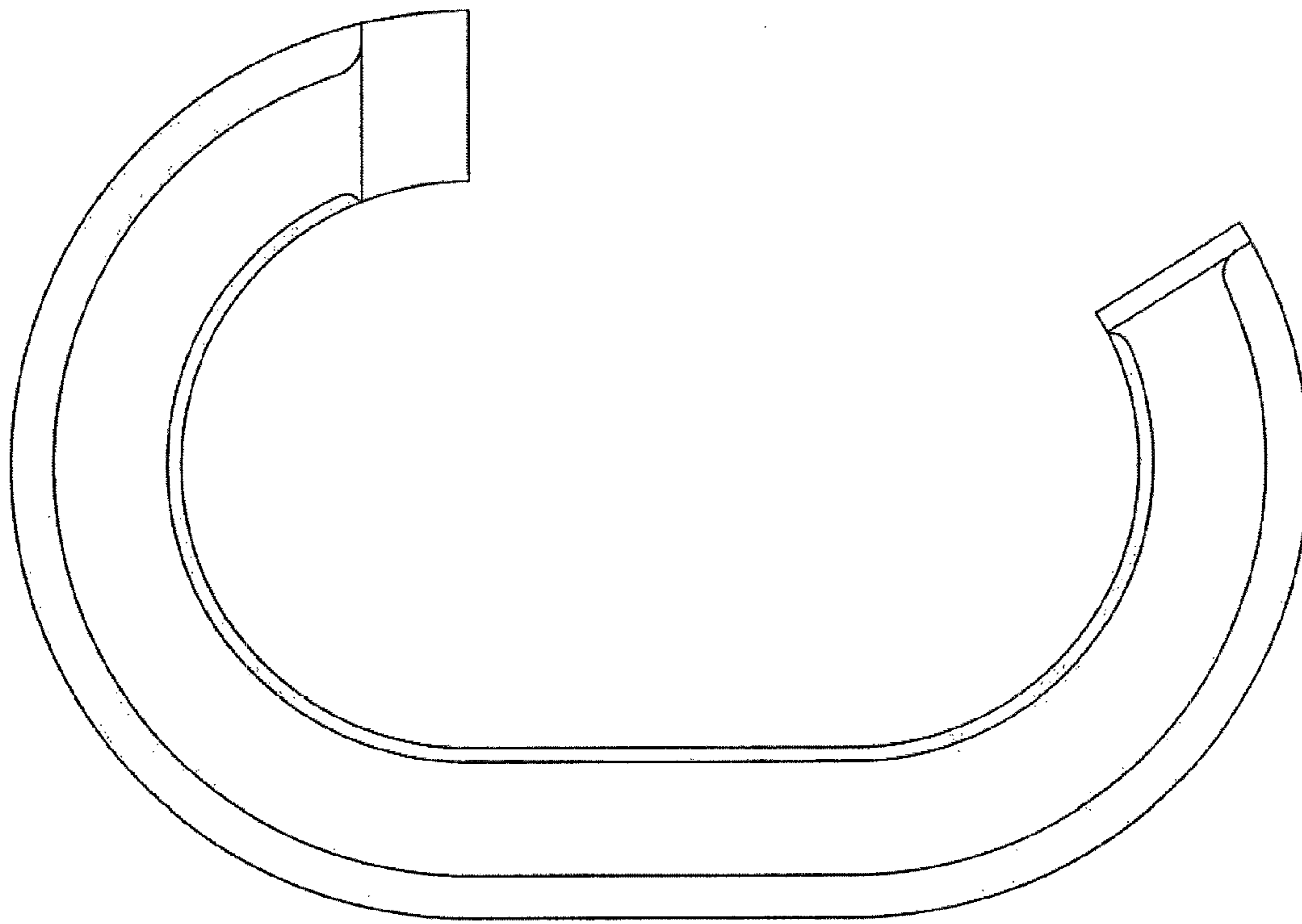


FIG. 1

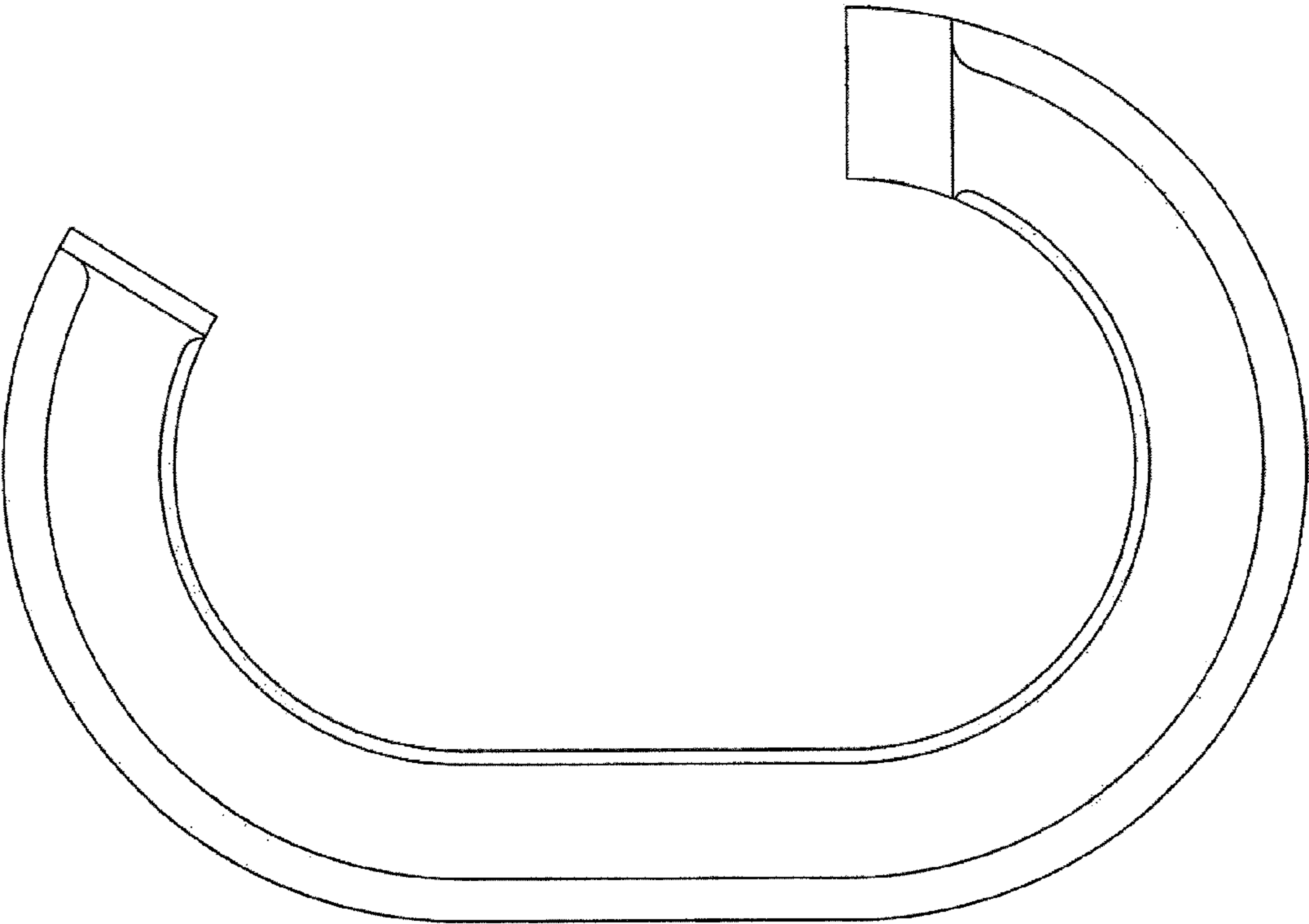


FIG. 2

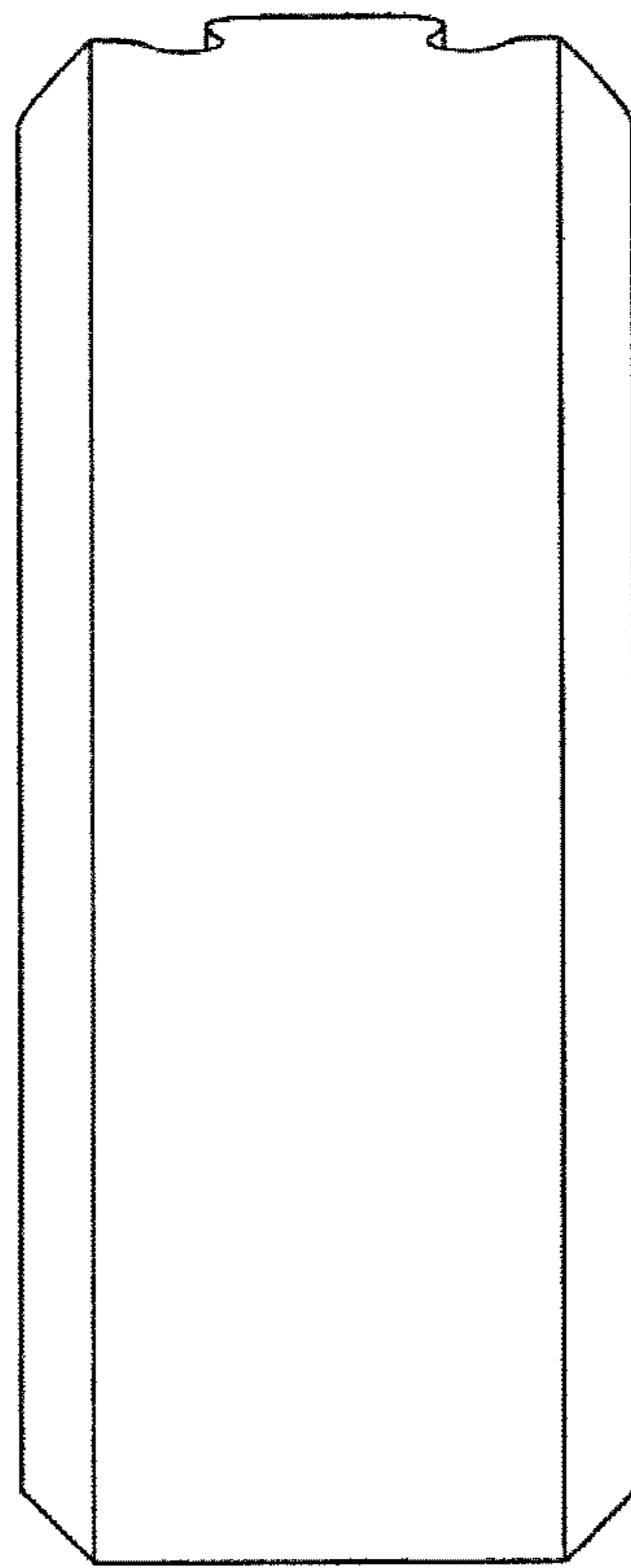


FIG. 3

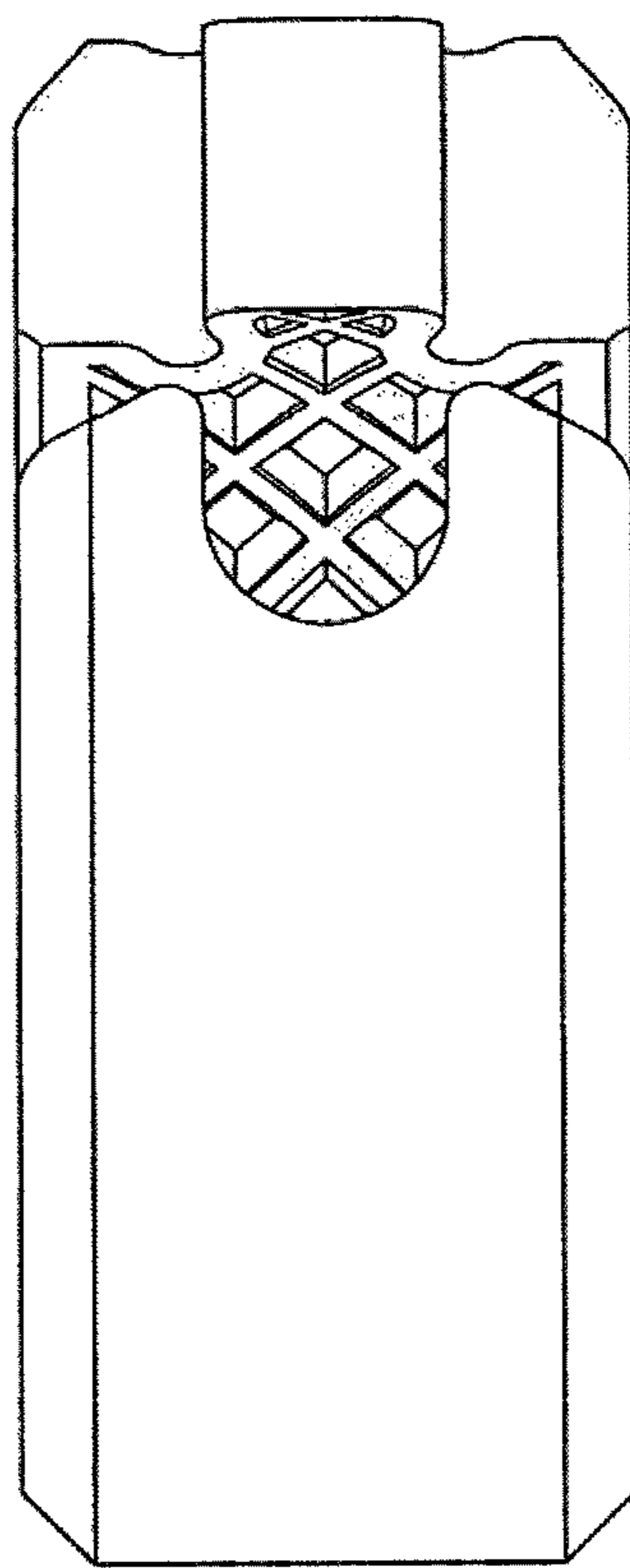


FIG. 4

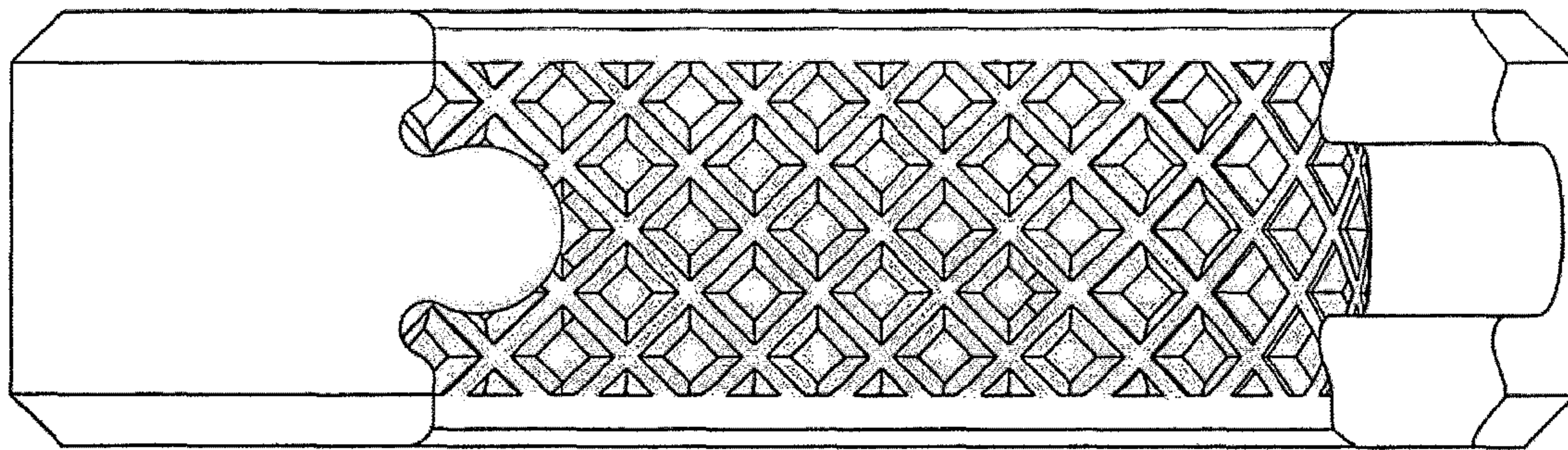


FIG. 5

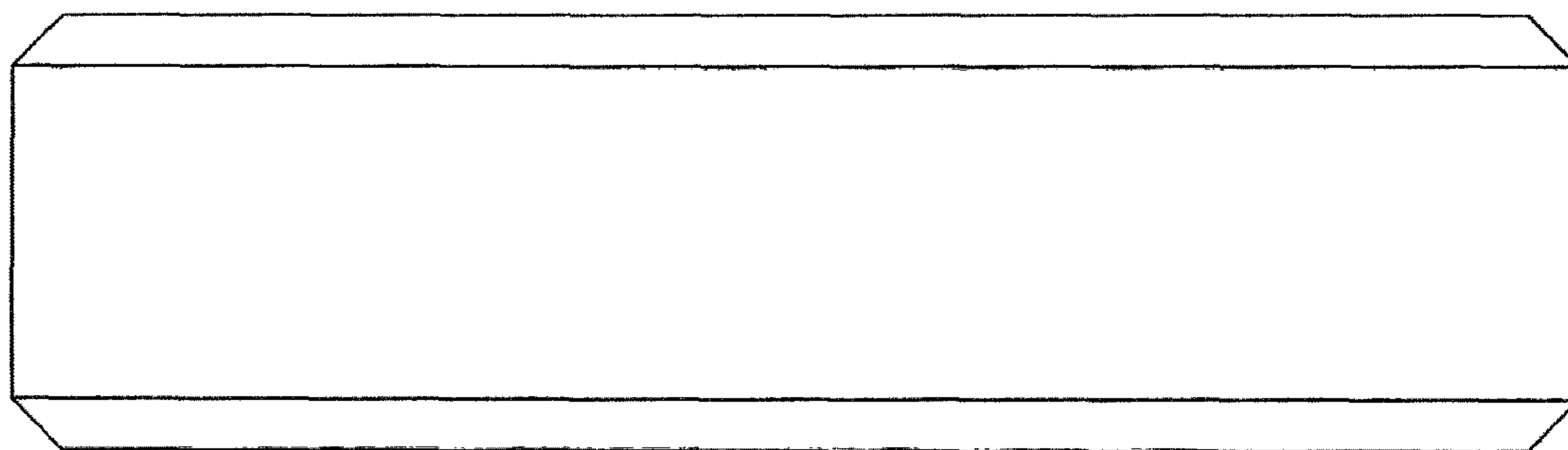


FIG. 6

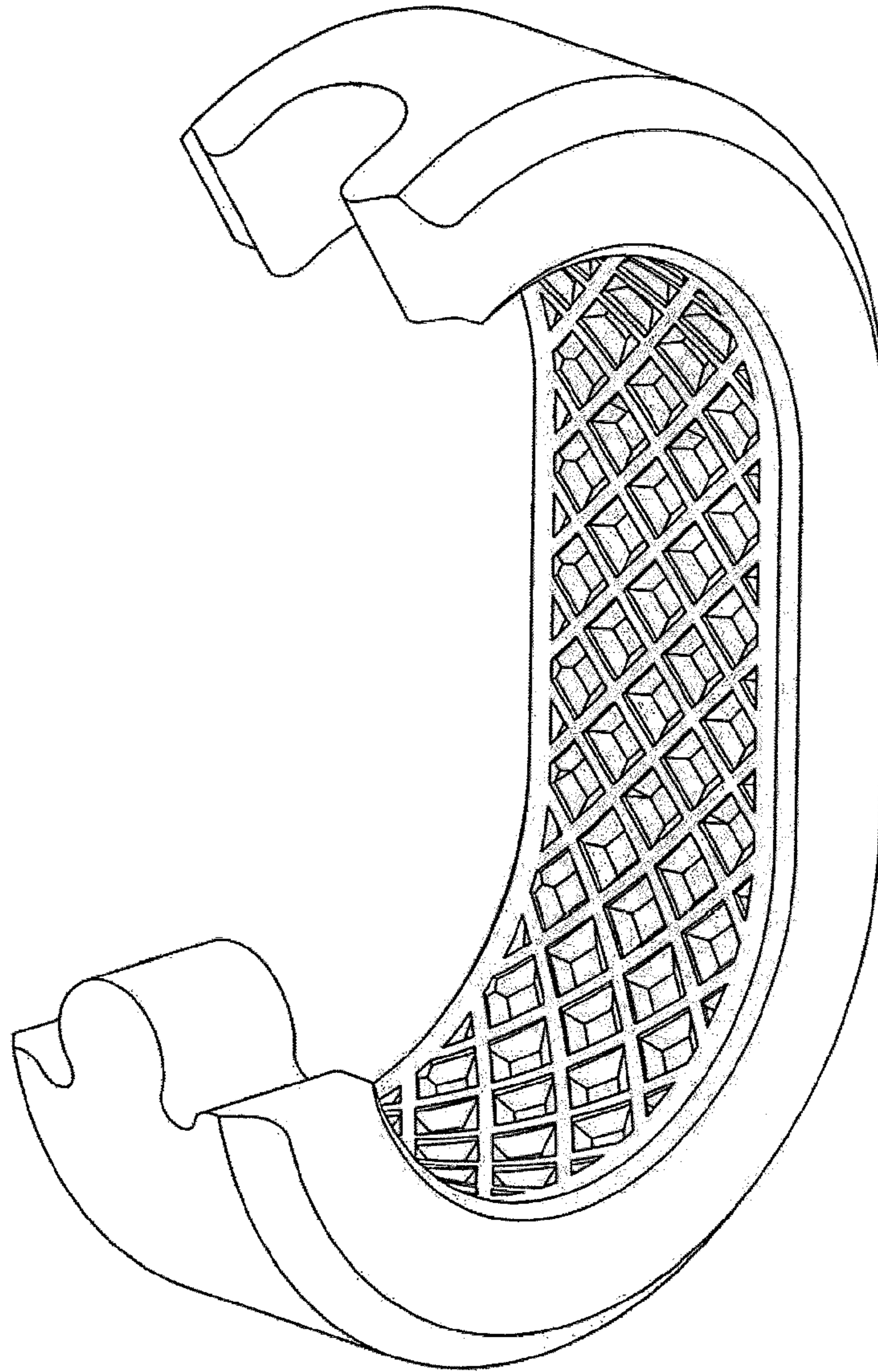


FIG. 7