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

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(54) **COUPLING RING FOR VENTILATION DUCTS**

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

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(51) **LOC (7) Cl.** ..... **23-04**

(52) **U.S. Cl.** ..... **D23/393**

(58) **Field of Search** ..... D23/393; 29/890.15;  
72/82-84, 86; 285/363

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D231,356 S \* 4/1974 Kurr ..... D23/393  
5,129,690 A \* 7/1992 Meinig et al. .... 285/363  
5,983,496 A 11/1999 Hermanson ..... 29/890.15

**FOREIGN PATENT DOCUMENTS**

GB 2 311 031 B 6/1998

**OTHER PUBLICATIONS**

*AccuFlange: Round & Oval Duct Connection System*, Accu Duct Mfg., product brochure, 1998, pp. 1-32.  
*LindabRekt*, Instruction manual, Lindab Nord AB, May 20, 1998, pp. 1-4.

*Rektangulära kanalsystem*, Lindab Rekt, product brochure 2000, pp. 1-8.

Introduction to the Rectangular Duct Construction Schedules, HVAC Duct Construction Standards Metal and Flexible—2<sup>nd</sup> ed., SMAGNA Section 1.8 ff., pp. 1.12-1.43.

\* cited by examiner

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(57) **CLAIM**

The ornamental design for a coupling ring for ventilation ducts, as shown.

**DESCRIPTION**

FIG. 1 is a front perspective view of an oval coupling ring of the new design.

FIG. 2 is a rear perspective view of the coupling ring of the new design.

FIG. 3 is a rear view of the coupling ring.

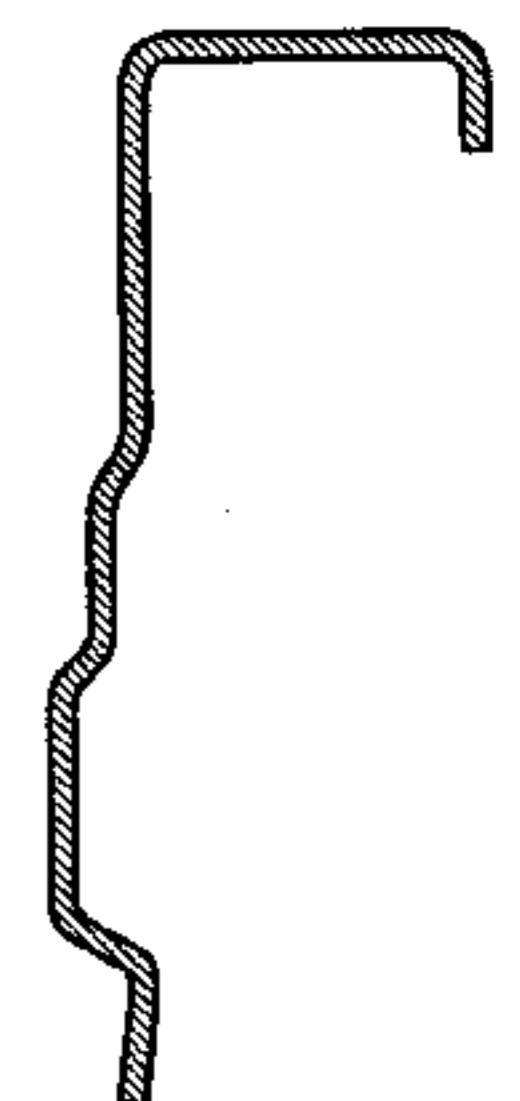
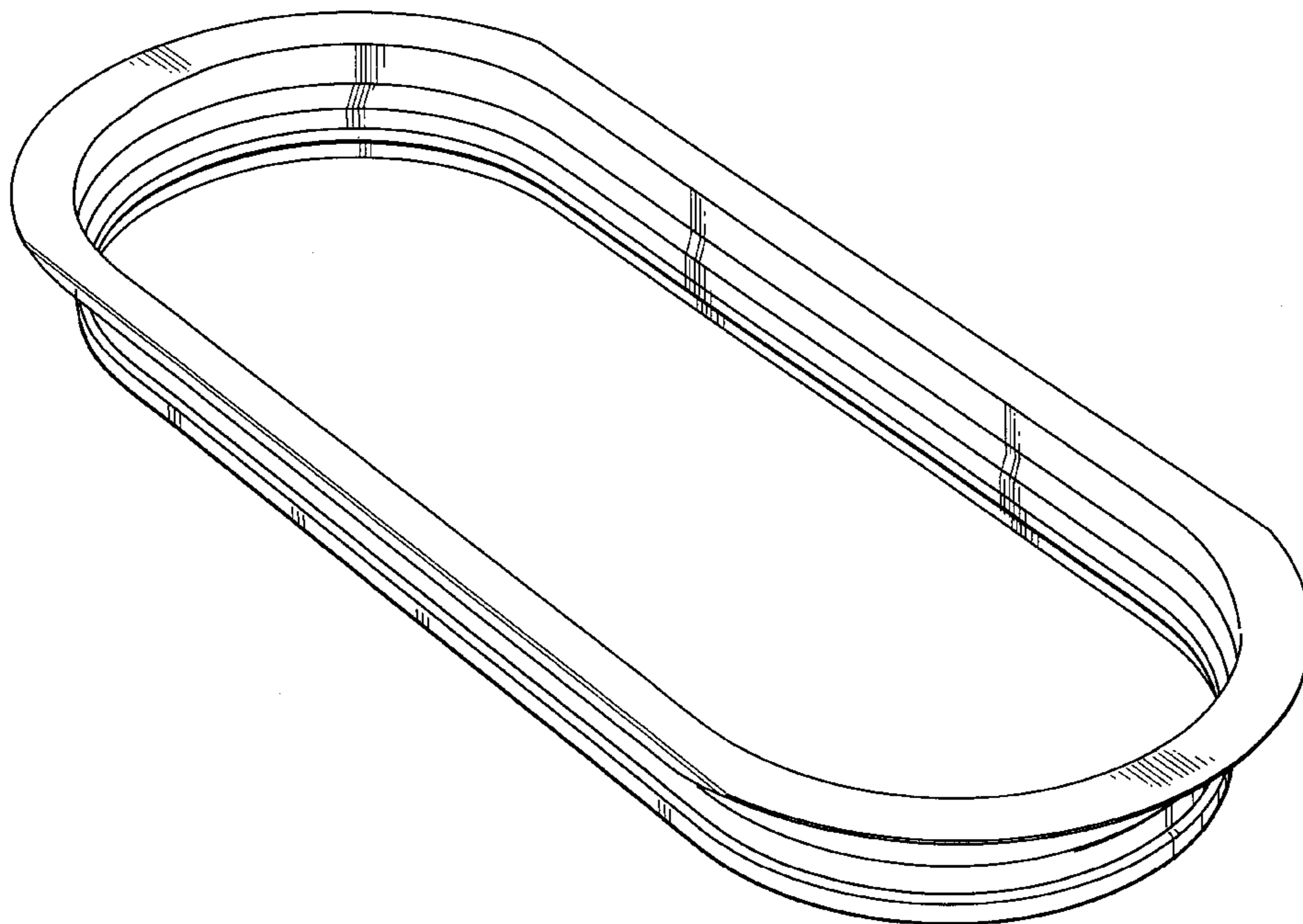
FIG. 4 is a side view of the coupling ring.

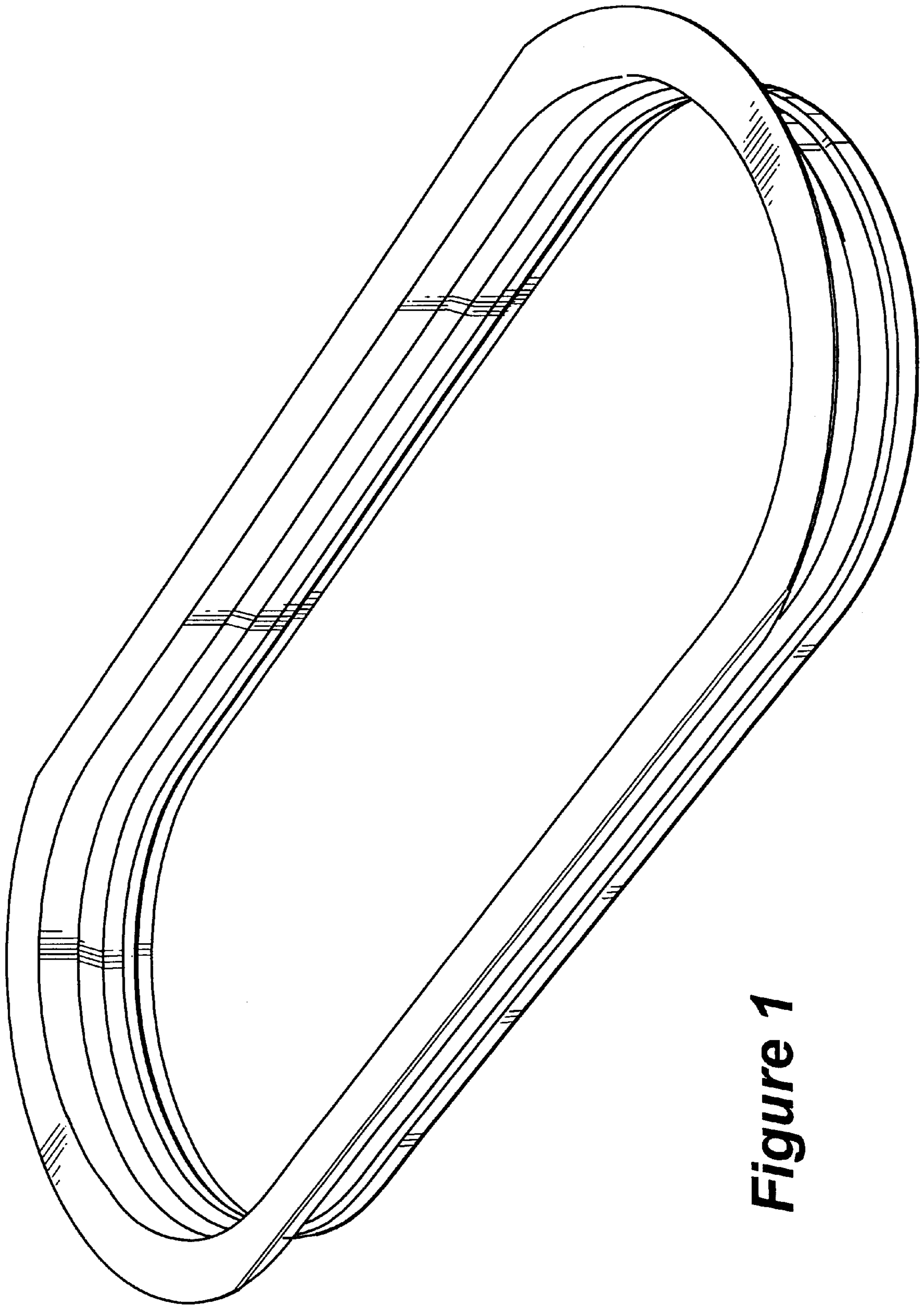
FIG. 5 is a front view of the coupling ring.

FIG. 6 is an end view of the coupling ring; and,

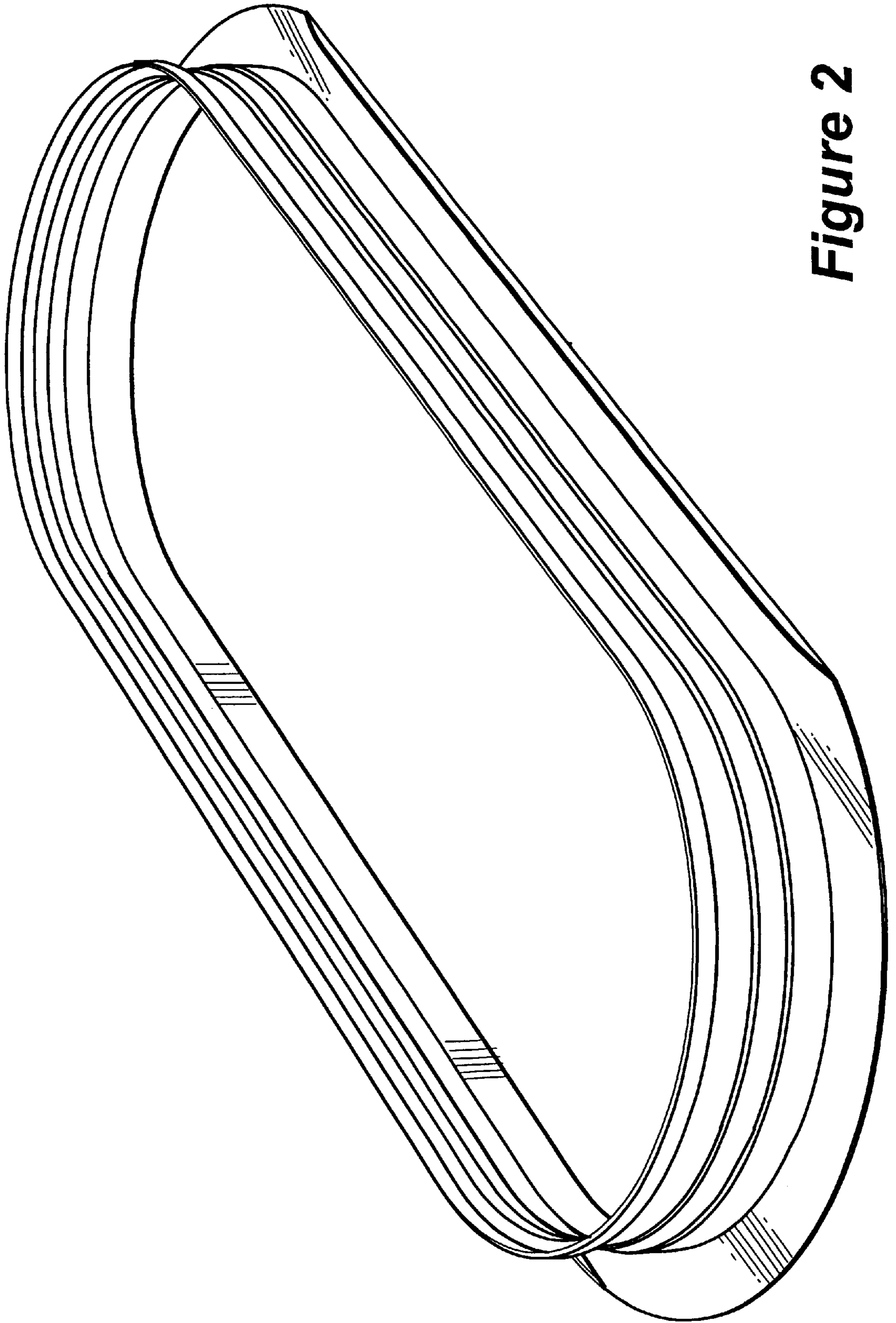
FIG. 7 is a cross-section of the coupling ring at a central straight portion of the same; section line VII—VII in FIG. 5.

**1 Claim, 4 Drawing Sheets**



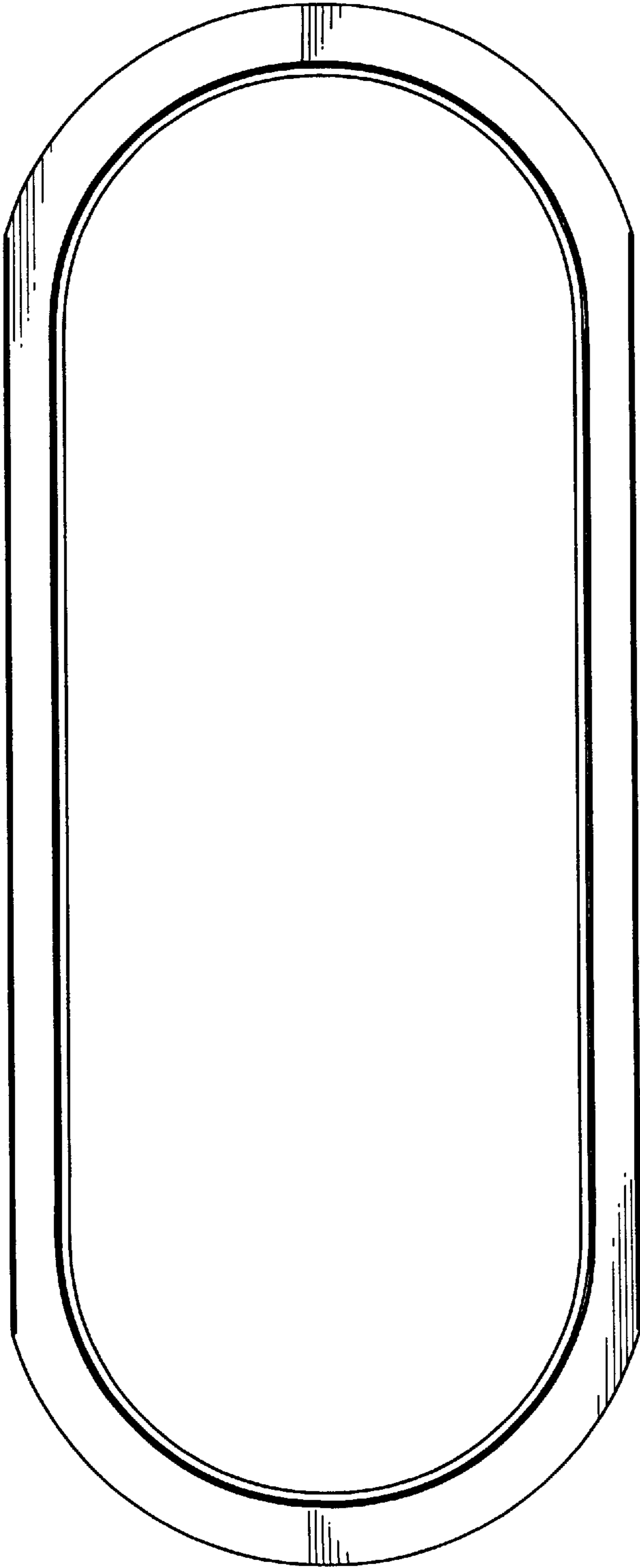


**Figure 1**



**Figure 2**





**Figure 3**



**Figure 4**

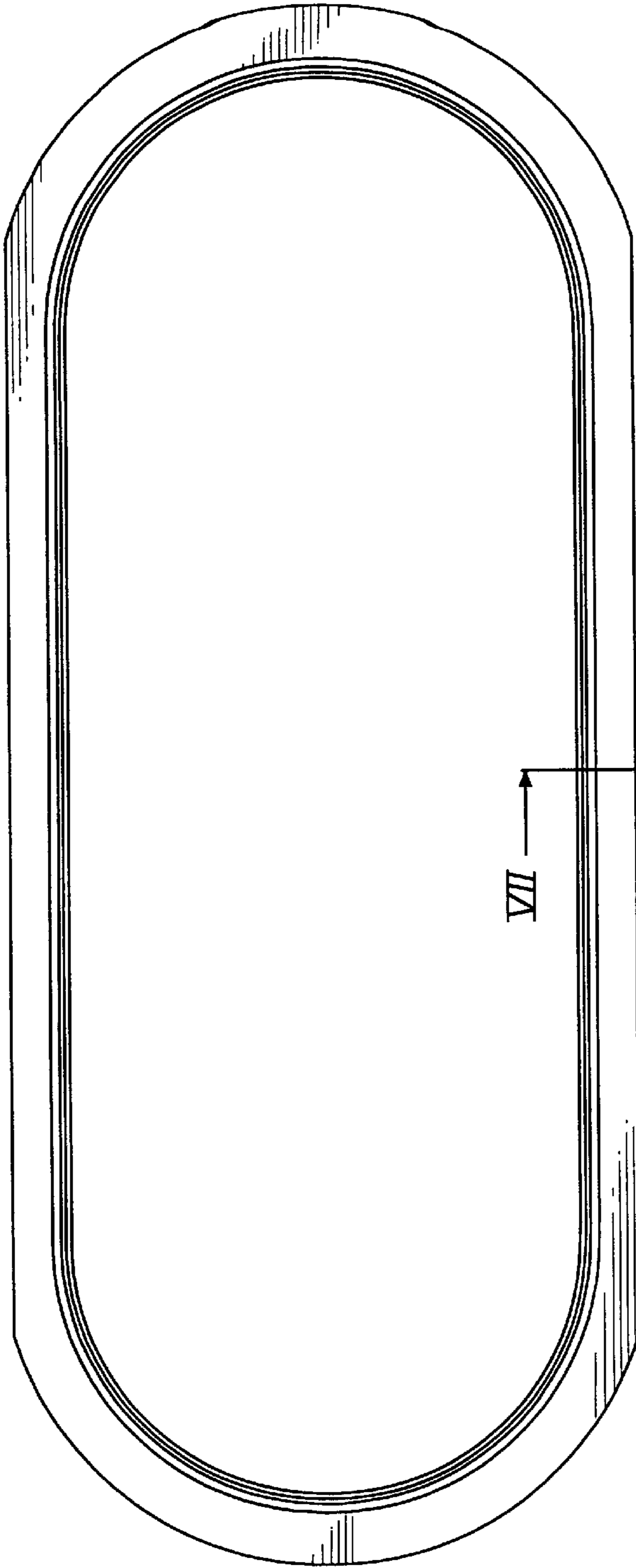


Figure 5

VII VII



Figure 6

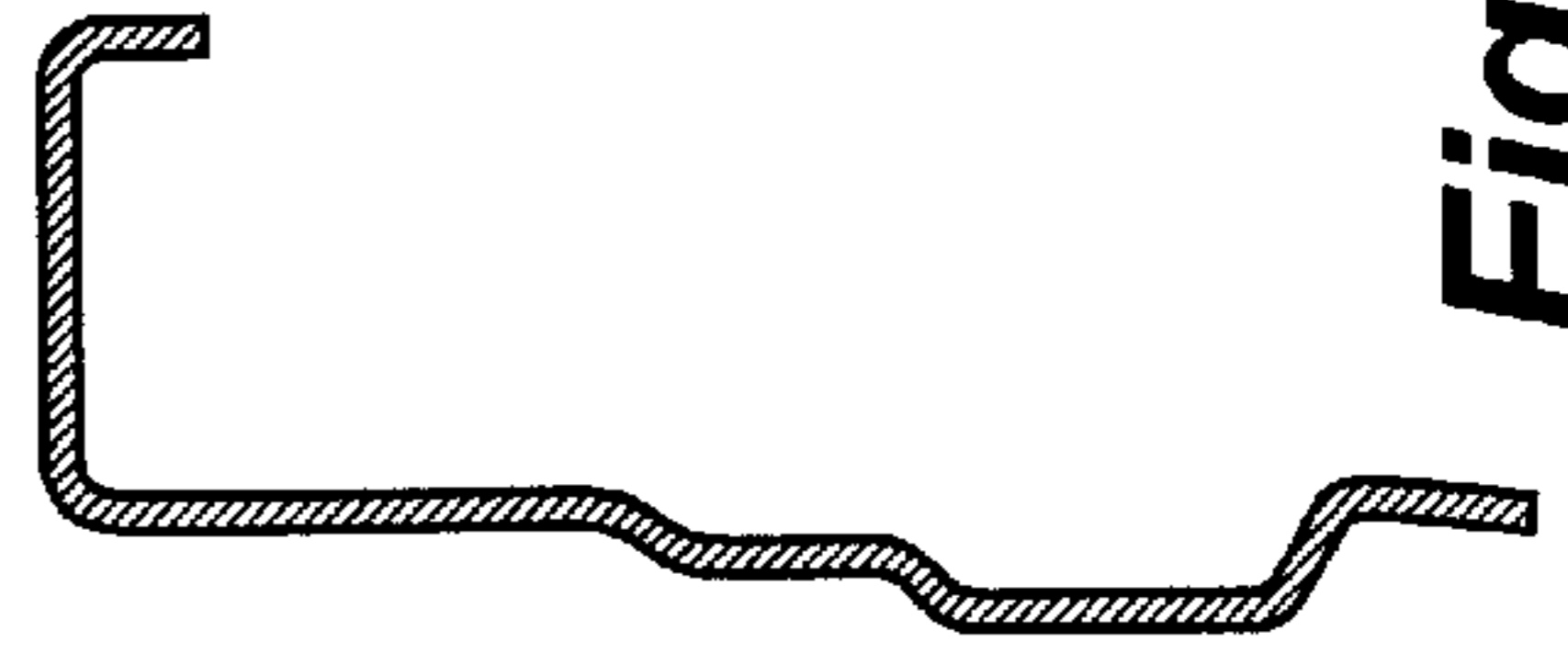


Figure 7