



US00D475781S

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

(10) **Patent No.:** **US D475,781 S**
(45) **Date of Patent:** **** Jun. 10, 2003**

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

(75) Inventors: **Lars-Åke Mattsson**, Båstad (SE);
Kenneth Lennartsson, Torekov (SE);
Sten Högman, Grevie (SE);
Carl-Gustaf Sondén, Ängelholm (SE)

(73) Assignee: **Lindab AB**, Bastad (SE)

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

(21) Appl. No.: **29/152,352**

(22) Filed: **Dec. 13, 2001**

Related U.S. Application Data

(62) Division of application No. 29/135,765, filed on Jan. 17, 2001.

(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

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—2nd ed., SMAGNA Section 1.8 ff., pp. 1.12-1.43.

* cited by examiner

Primary Examiner—Mitchell Siegel

(74) *Attorney, Agent, or Firm*—Weingarten, Schurgin, Gagnebin & Lebovici LLP

(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 according to a first embodiment of the new design with a front element.

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.

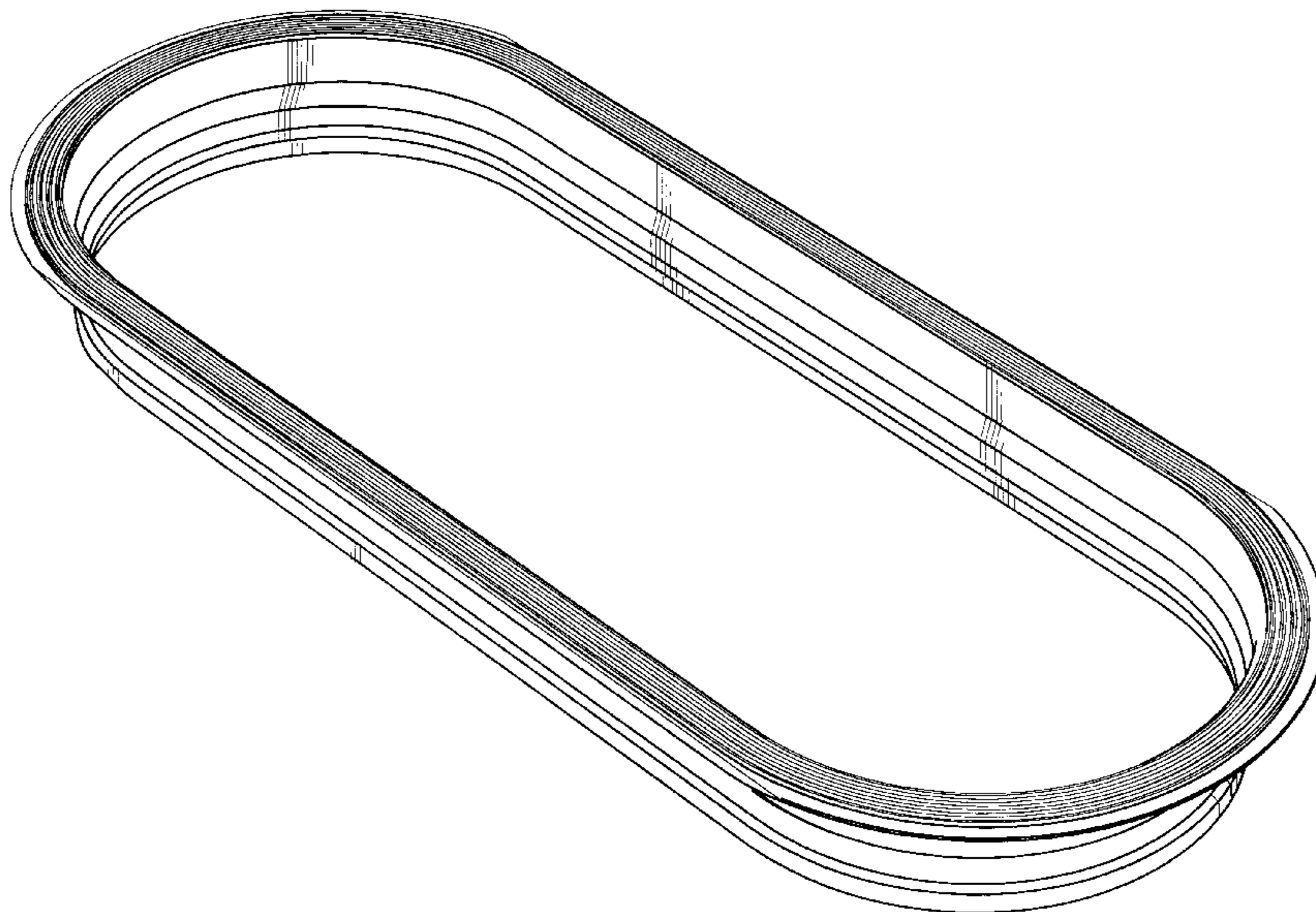
FIG. 4 is a side view of the coupling ring.

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 the central straight portion of the same, showing said front element, section line VII—VII in FIG. 5.

1 Claim, 4 Drawing Sheets



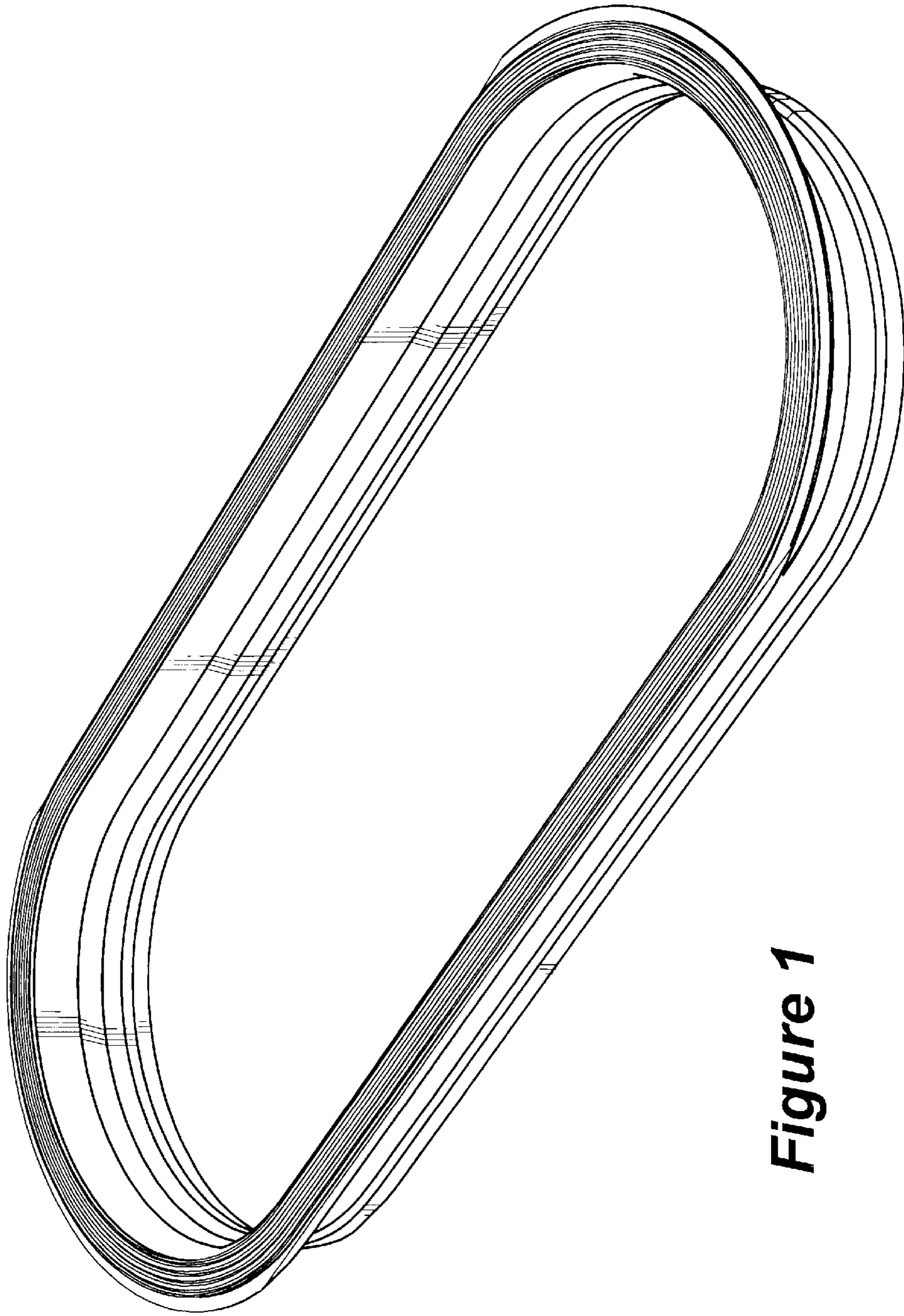


Figure 1

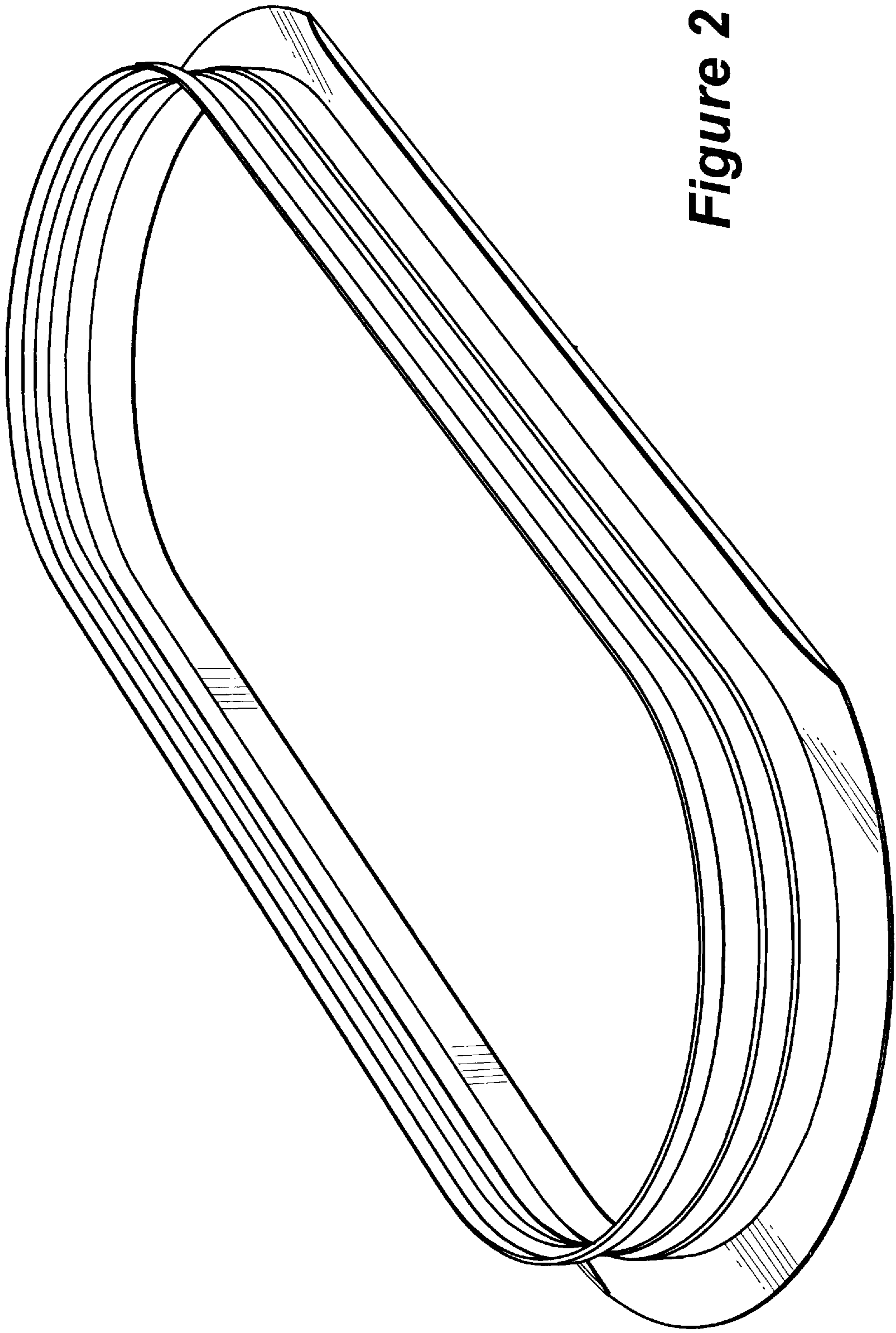


Figure 2

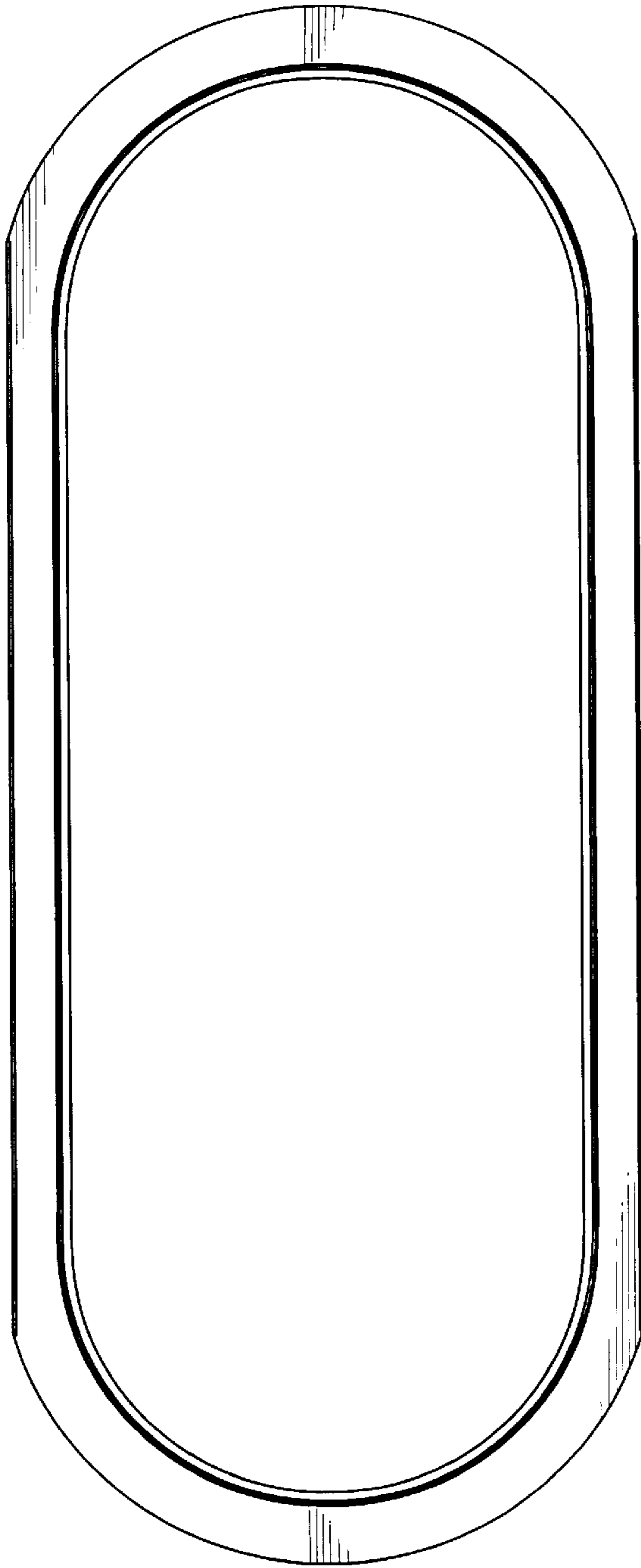


Figure 3

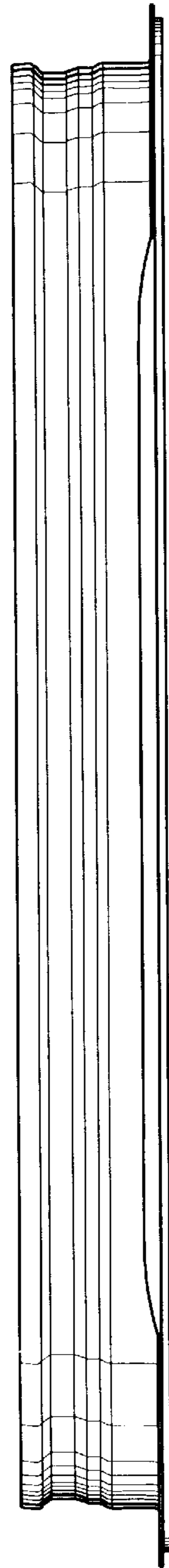
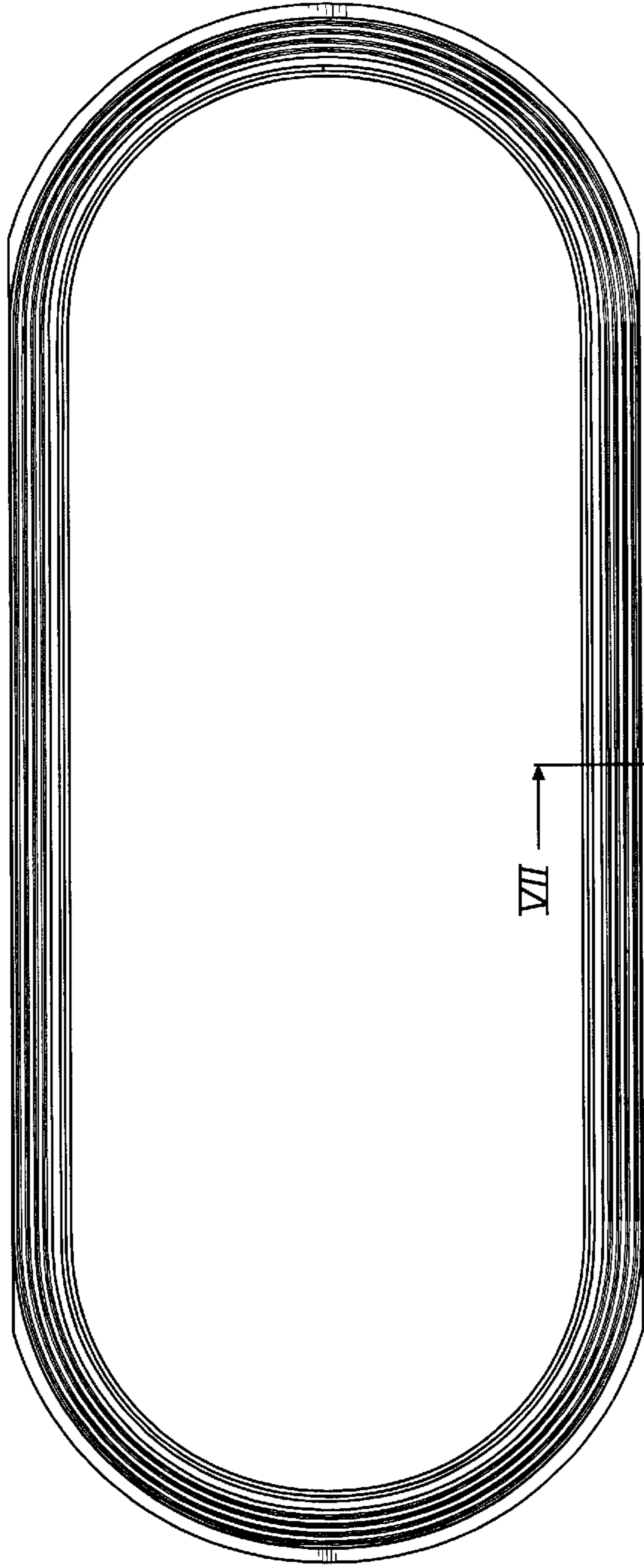


Figure 4



VII

VII

Figure 5

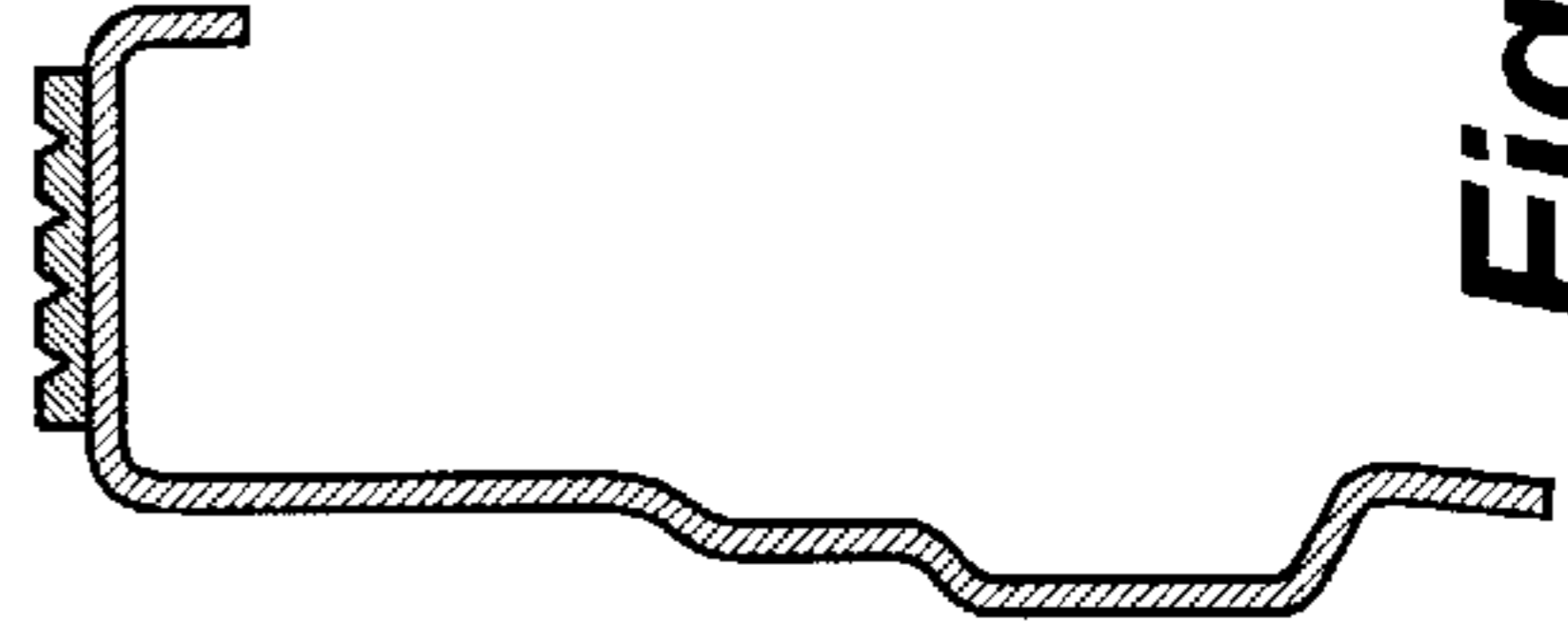


Figure 7

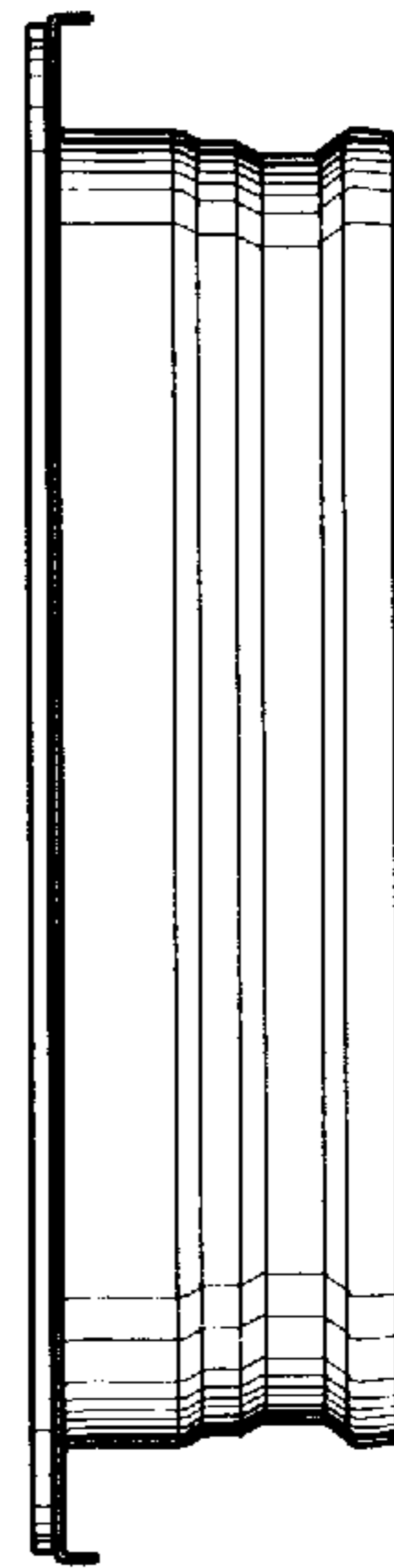


Figure 6