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(12) **United States Design Patent** (10) **Patent No.:** **US D453,042 S**  
**Mattsson et al.** (45) **Date of Patent:** **\*\* Jan. 22, 2002**

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

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

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

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

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(57) **CLAIM**

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

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

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

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

**DESCRIPTION**

(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

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.

**FOREIGN PATENT DOCUMENTS**

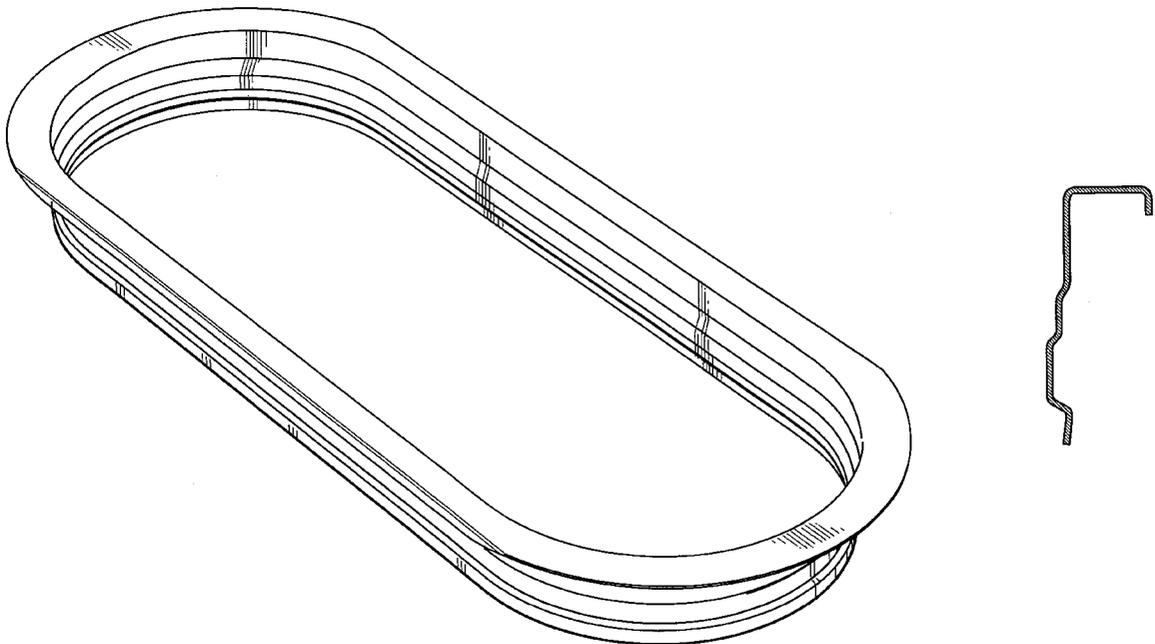
GB 2 311 031 B 6/1998

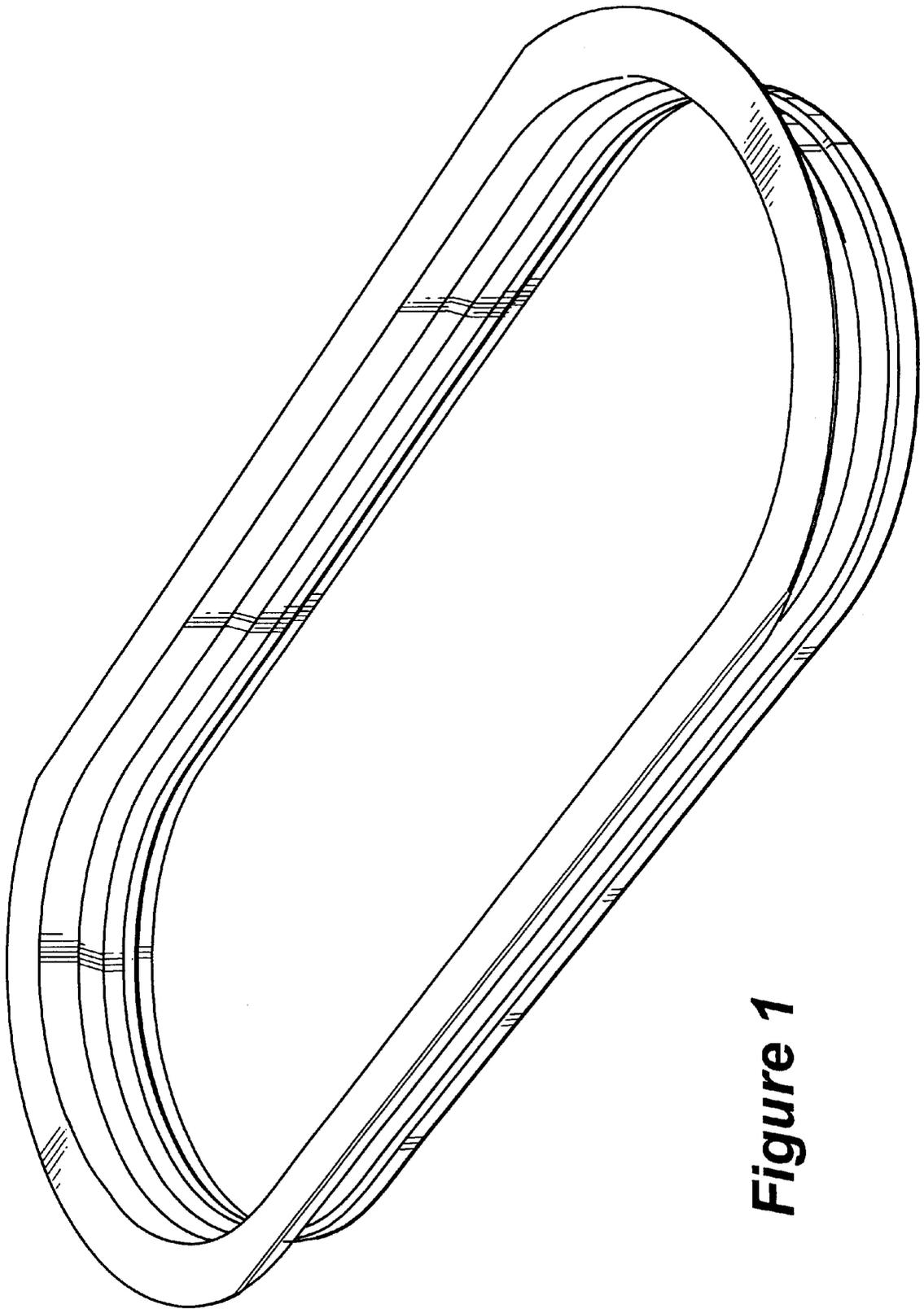
**OTHER PUBLICATIONS**

*AccuFlange: Round & Oval Duct Connection System*, Accu Duct Mfg., product brochure, 1998, pp. 1–32.

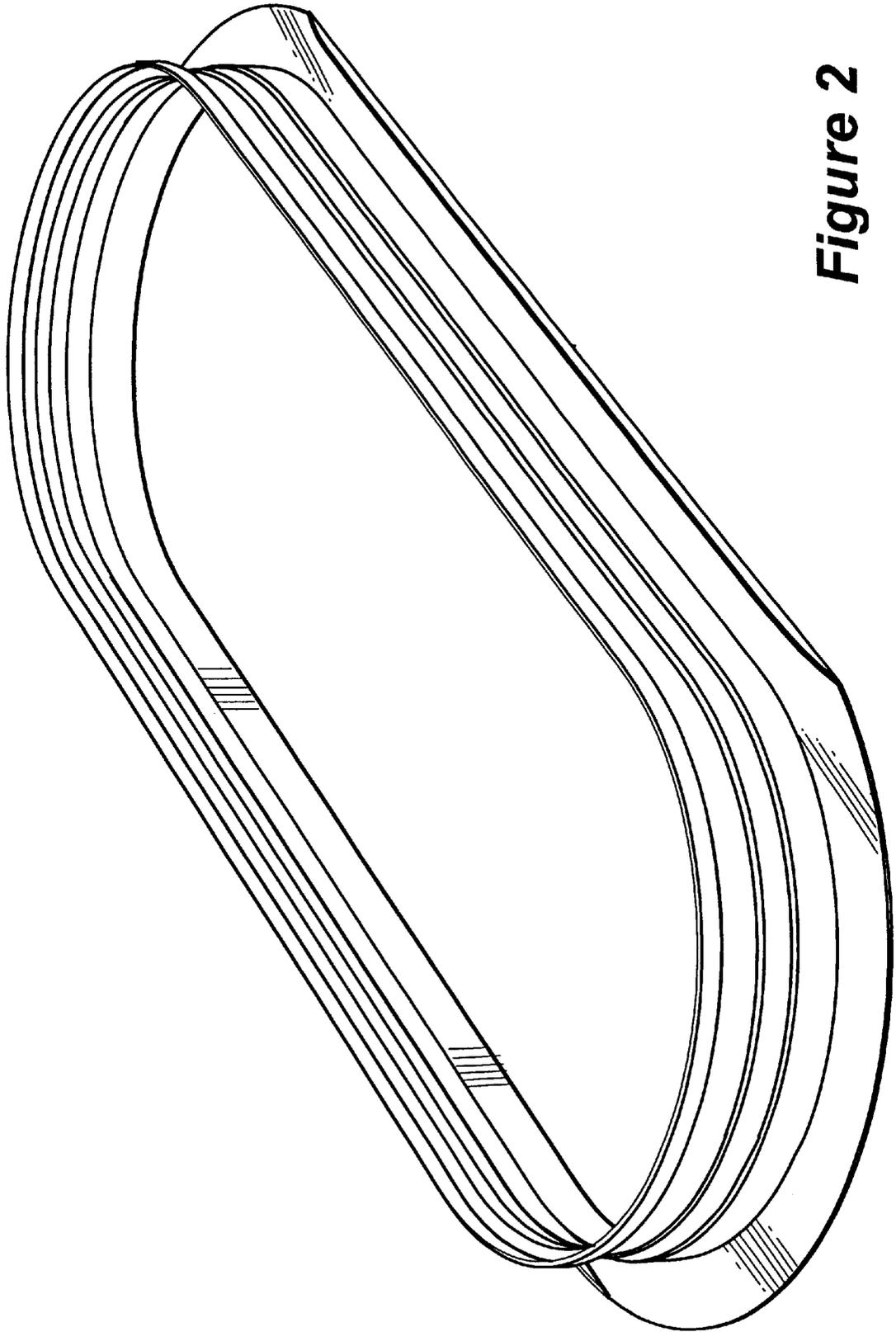
*LindabRekt*, Instruction manual, Lindab Nord AB, May 20, 1998, pp. 1–4.

**1 Claim, 4 Drawing Sheets**

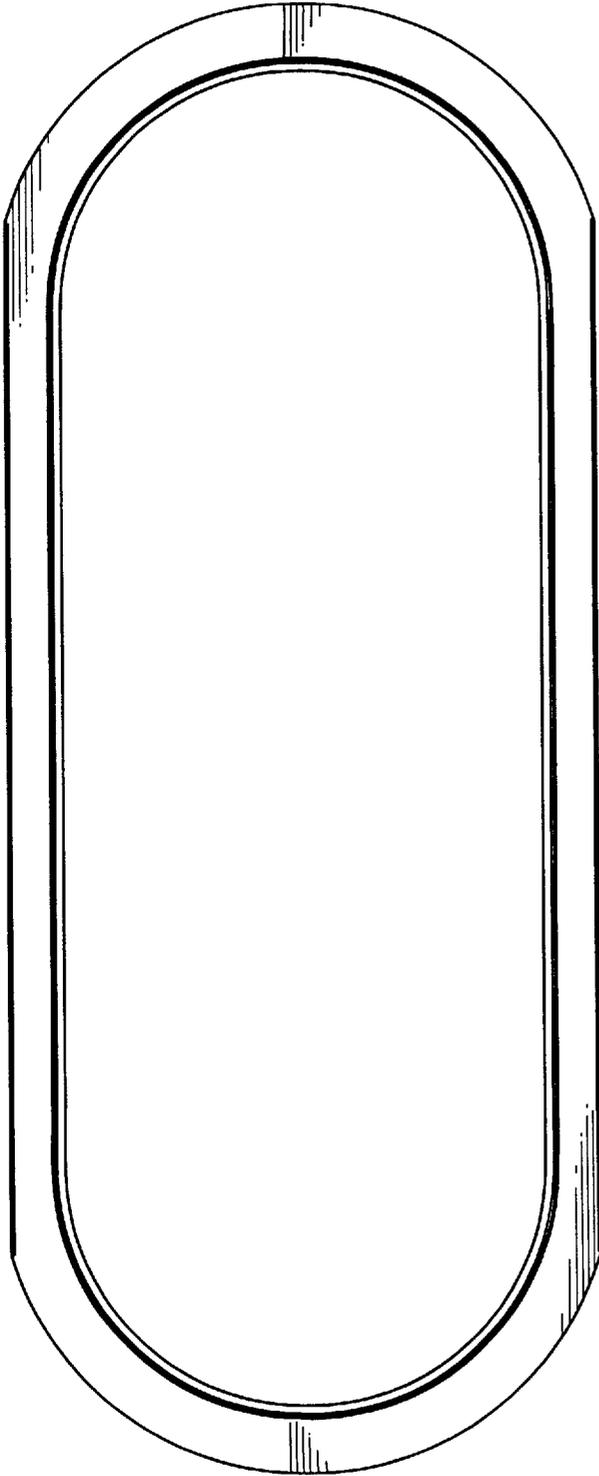




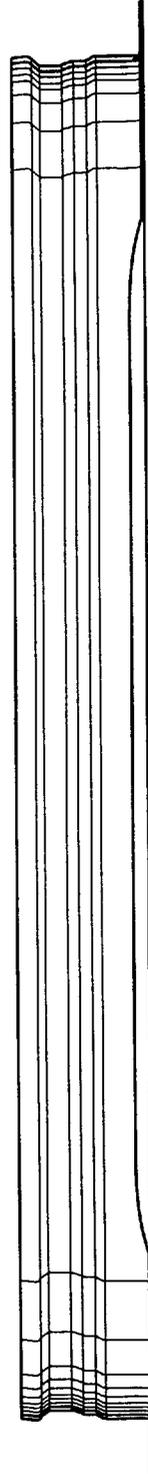
**Figure 1**



**Figure 2**



*Figure 3*



*Figure 4*

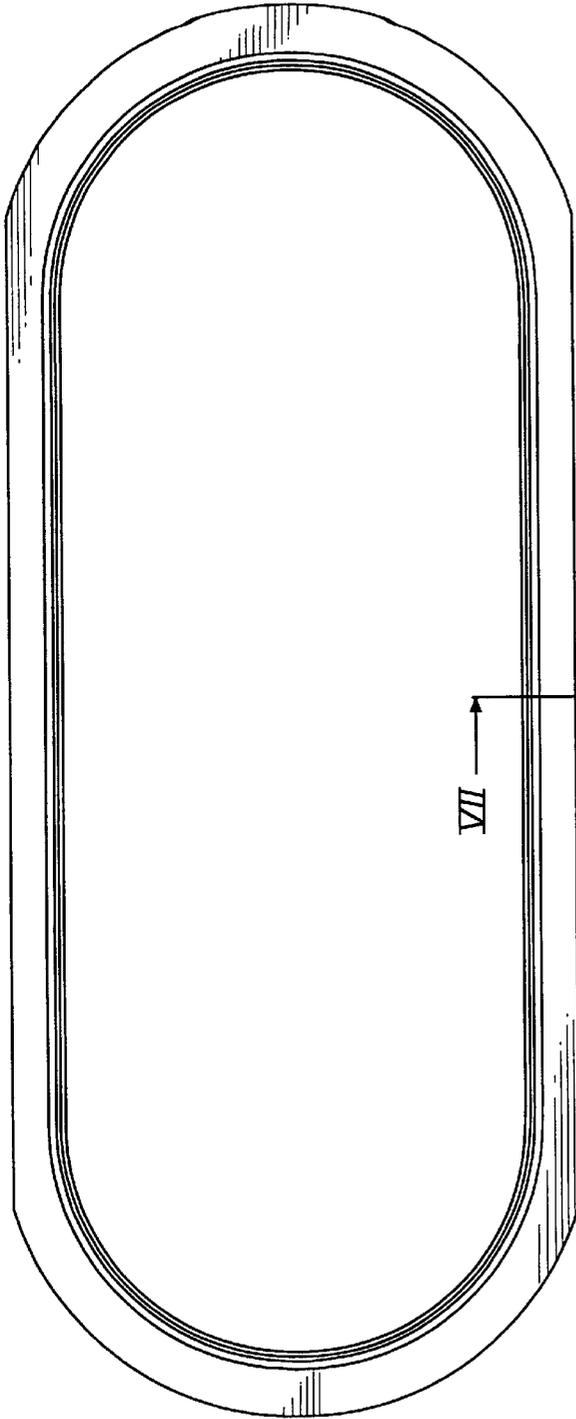


Figure 5

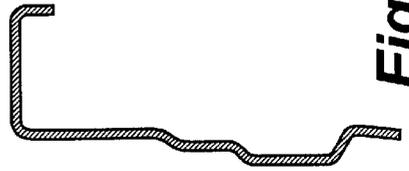


Figure 7

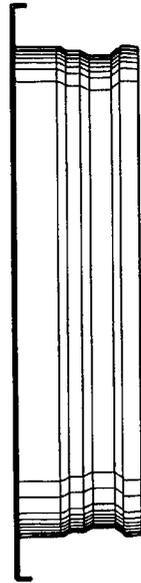


Figure 6