



US00D344893S

**United States Patent** [19]  
**Dwinell**

[11] **Patent Number: Des. 344,893**

[45] **Date of Patent: \*\* Mar. 8, 1994**

[54] **ULTRA-SONIC WELDING HORN**

[75] **Inventor: Davis B. Dwinell, Carol Stream, Ill.**

[73] **Assignee: American Flange & Mfg. Co., Inc., Carol Stream, Ill.**

[\*\*] **Term: 14 Years**

[21] **Appl. No.: 951,707**

[22] **Filed: Sep. 28, 1992**

**Related U.S. Application Data**

[62] **Division of Ser. No. 819,969, Jan. 13, 1992.**

[52] **U.S. Cl. .... D9/435; D15/144.2**

[58] **Field of Search .... D8/434, 435, 445, 447, D8/449; D9/500, 503, 504, 505, 434, 435, 442; 156/73.1; 222/529, 481, 488; 220/601, 303; D15/144.2, 144.1, 144**

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

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*Assistant Examiner*—Antoine O. Davis

[57] **CLAIM**

The ornamental design for an ultra-sonic welding horn, as shown.

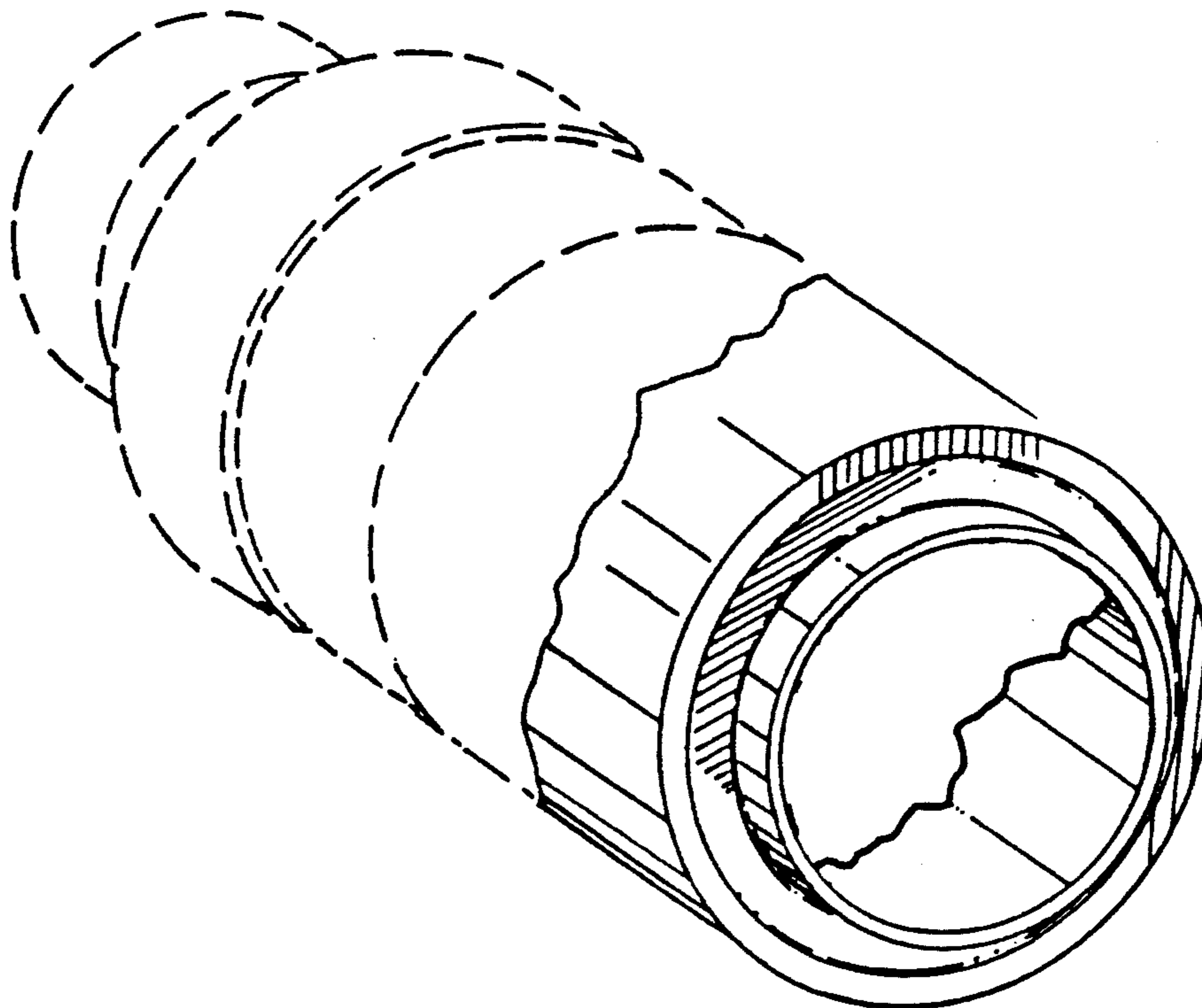
**DESCRIPTION**

FIG. 1 is a perspective view of ultra-sonic welding horn embodying my new design;

FIG. 2 is an end view; and,

FIG. 3 is a fragmentary sectional view greatly enlarged taken along lines 3—3 of FIG. 2.

The broken line showing of the welding horn upper body is for illustrative purposes only and forms no part of the claimed design.



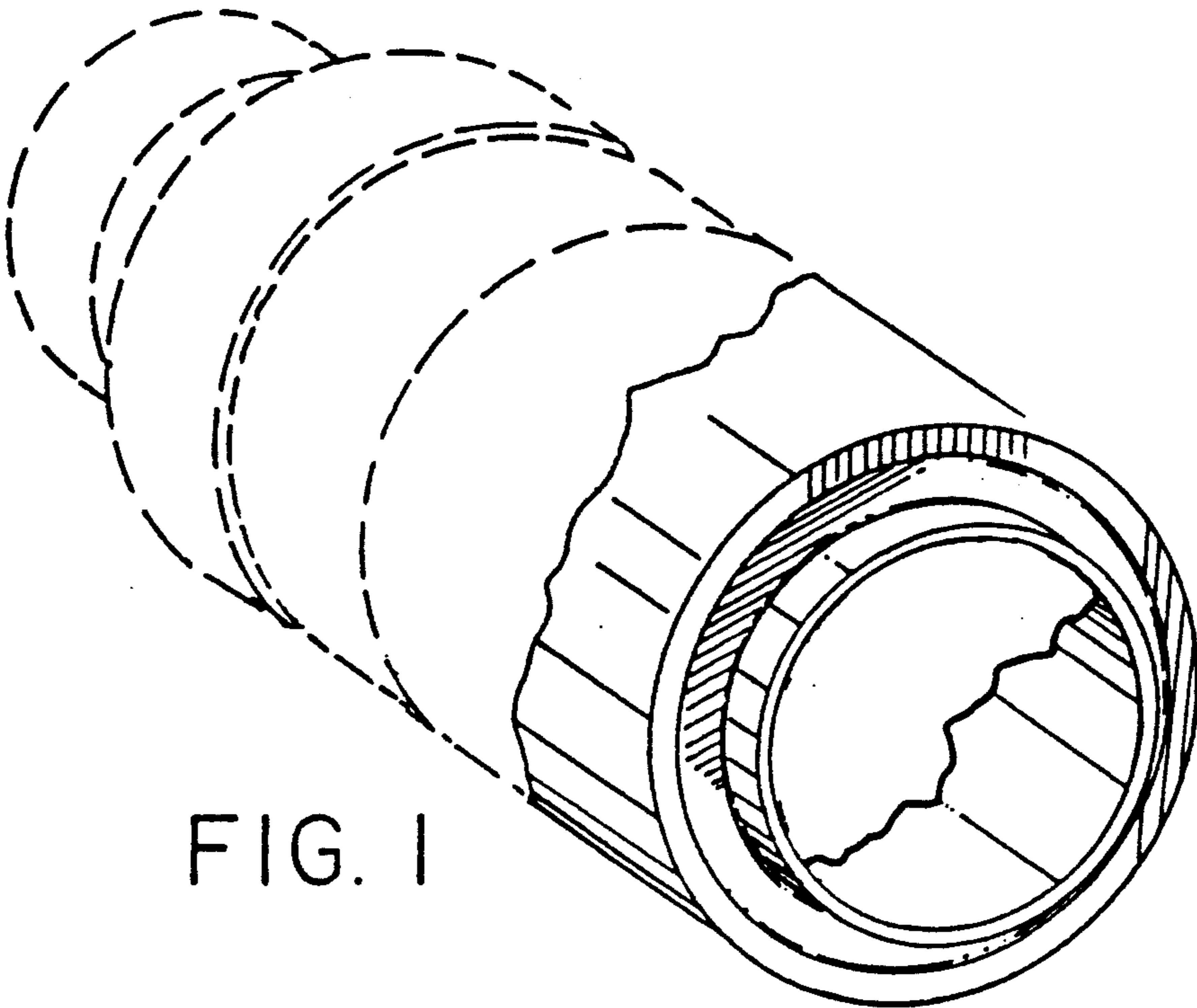


FIG. 1

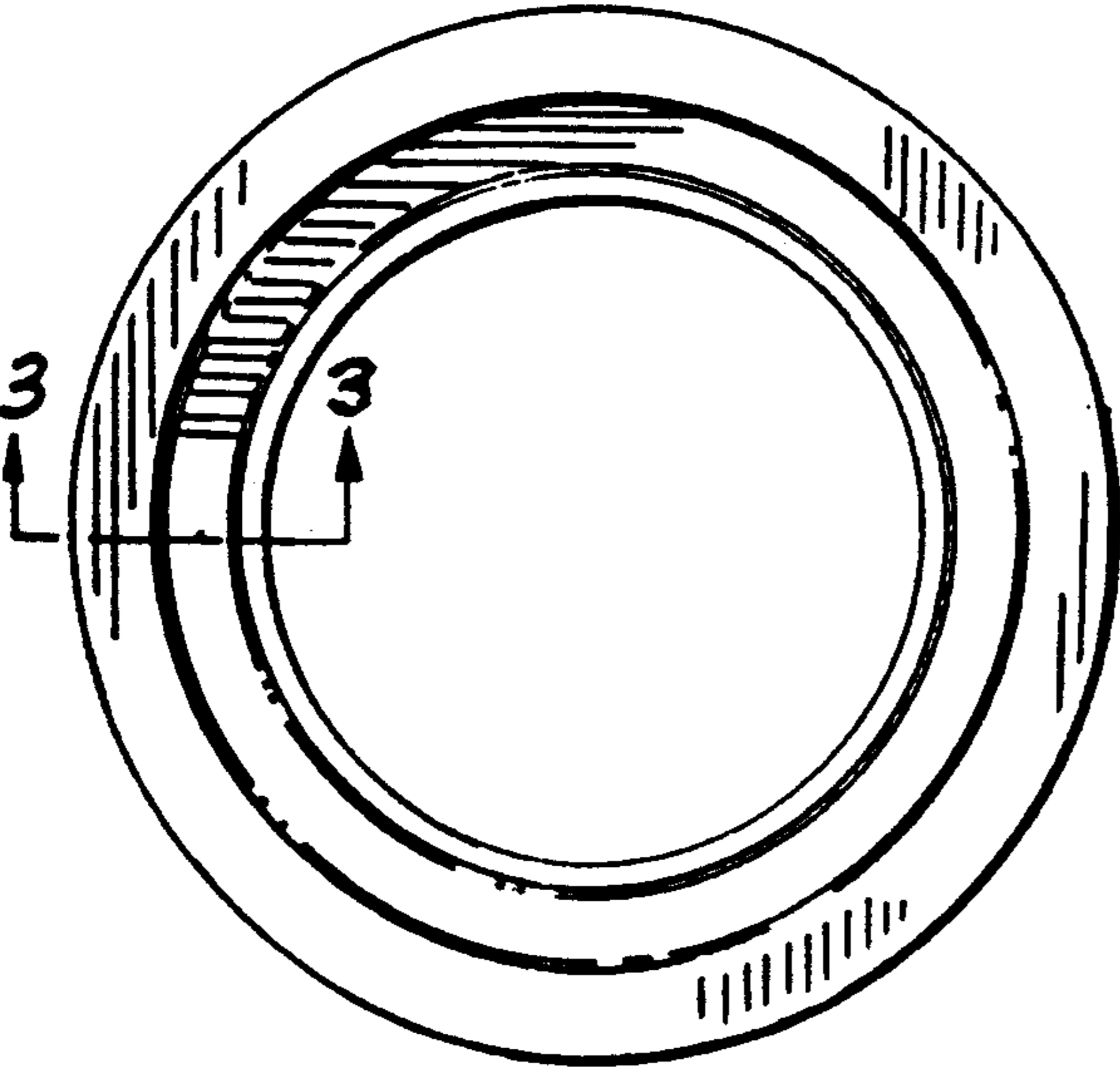


FIG. 2

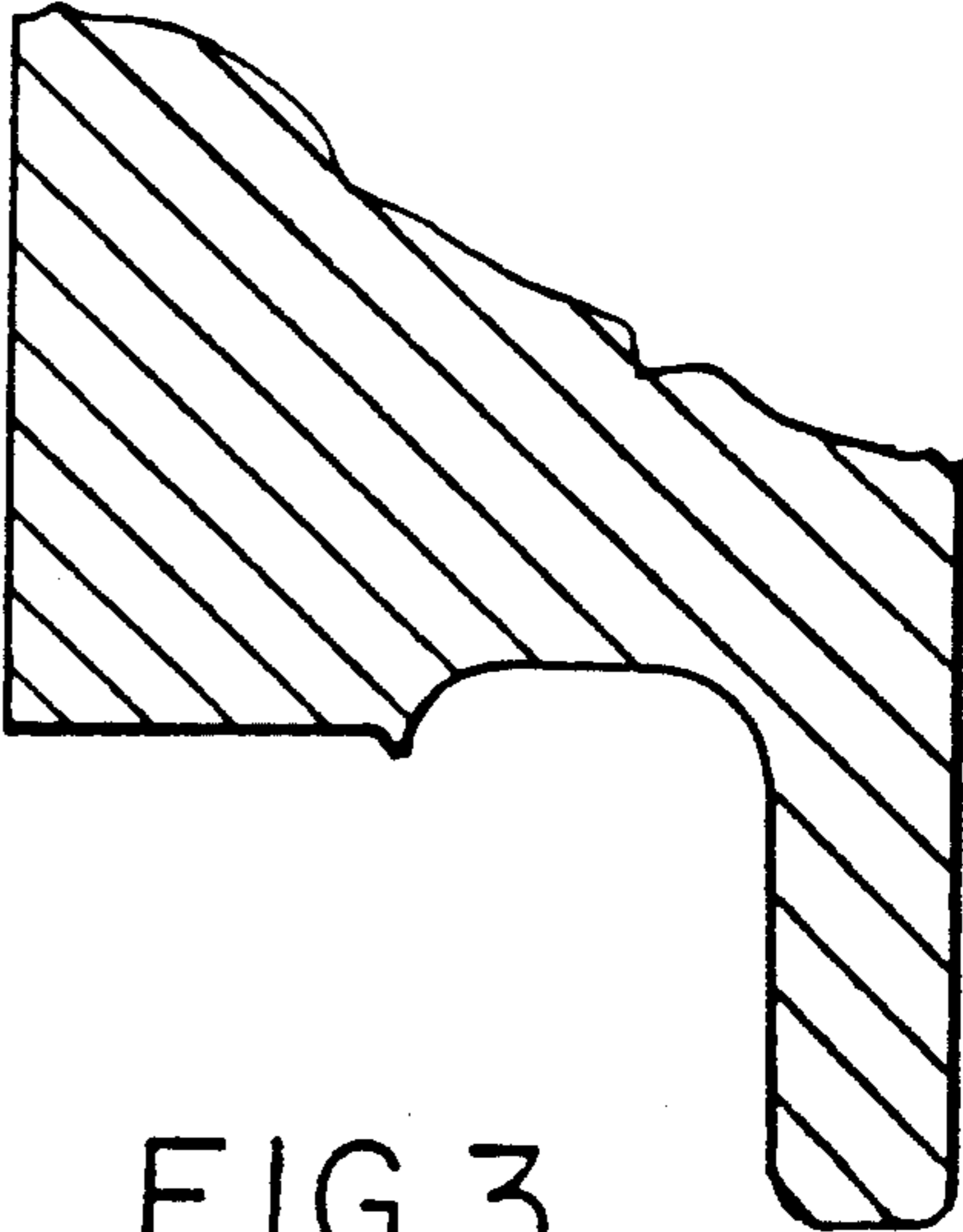


FIG. 3