



US00D354569S

United States Patent [19]
Hilgers

[11] **Patent Number: Des. 354,569**
[45] **Date of Patent: ** Jan. 17, 1995**

- [54] **LINGUAL ORTHODONTIC ARCH APPLIANCE**
- [75] **Inventor: James J. Hilgers, Escondido, Calif.**
- [73] **Assignee:Ormco Corporation, Glendora, Calif.**
- [**] **Term: 14 Years**
- [21] **Appl. No.: 10,694**
- [22] **Filed: Jul. 14, 1993**
- [52] **U.S. Cl. D24/180**
- [58] **Field of Search D24/176-182;**
433/2, 5-7, 18-24, 140; D8/370

OTHER PUBLICATIONS

TP Laboratories, Inc. Catalog 907, arch wires, pp. 39, 47, 48, 1984.
Rocky Mountain/Orthodontics, Aug. 1984 AJO, Managing 1st Phase Treatment Problems.
Rocky Mountain/Orthodontics, Apr. 1985, High County News.

Primary Examiner—Wallace R. Burke
Assistant Examiner—M. H. Tung
Attorney, Agent, or Firm—Wood, Herron & Evans

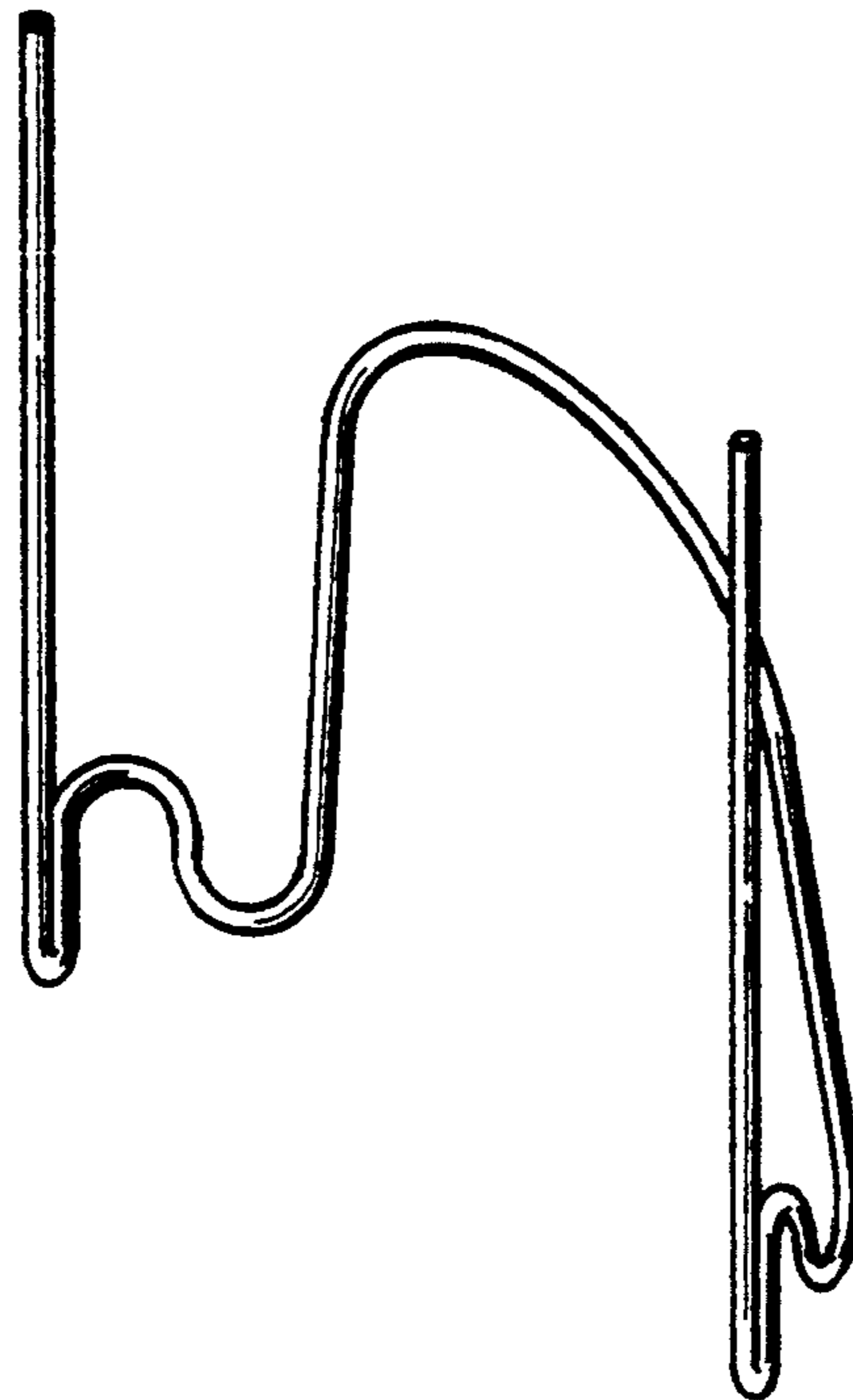
[57] **CLAIM**

The ornamental design for a lingual orthodontic arch appliance, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the lingual orthodontic arch appliance design of this invention, depicting the bottom, right side, and front thereof;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a bottom plan view thereof;
FIG. 4 is a left side view thereof, with the right side view being a mirror image;
FIG. 5 is a top plan view thereof; and,
FIG. 6 is a rear elevational view thereof.

- [56] **References Cited**
- U.S. PATENT DOCUMENTS**
- D. 317,861 7/1991 Leehner D8/370 X
- D. 342,318 12/1993 Moffat D24/180
- 3,137,941 6/1964 Andrews 433/5
- 3,337,958 8/1967 Stifter 433/5
- 3,429,044 2/1969 Rubin 433/5
- 4,245,984 1/1981 Hamill, Jr. 433/5
- 4,406,620 9/1983 Kaprelian et al. 433/5



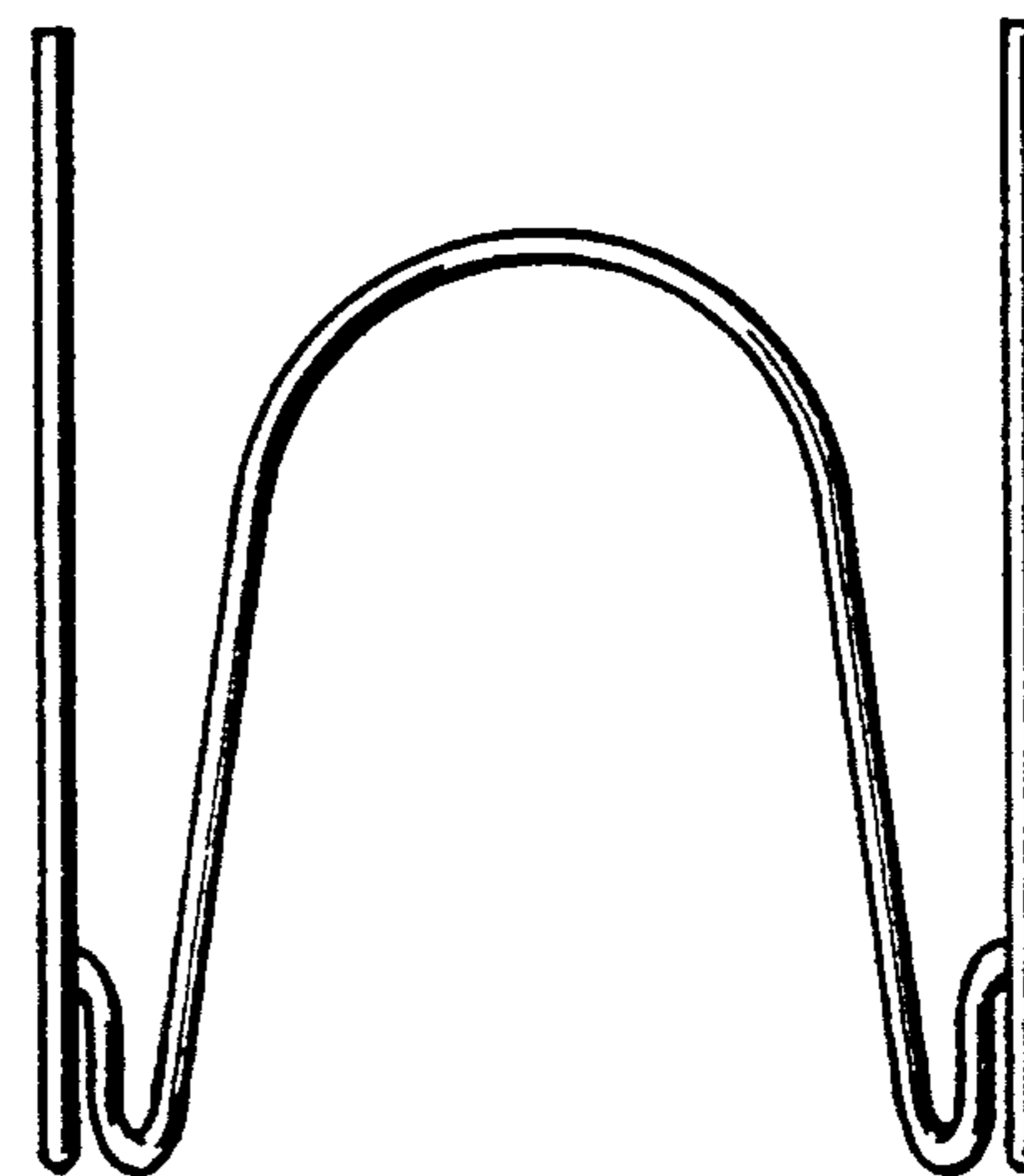
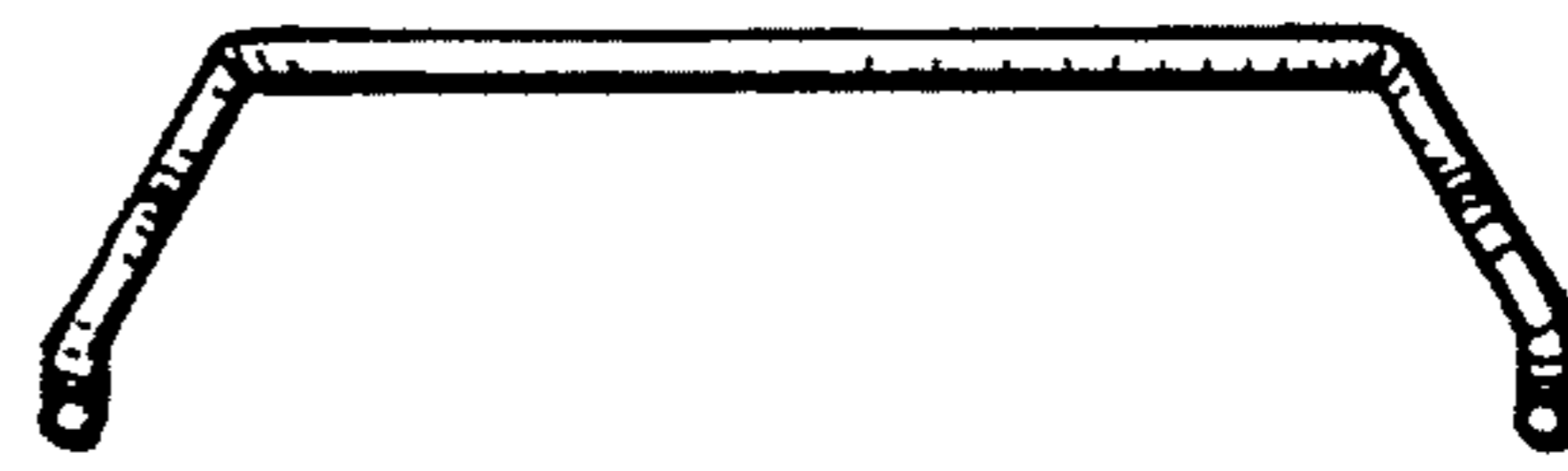
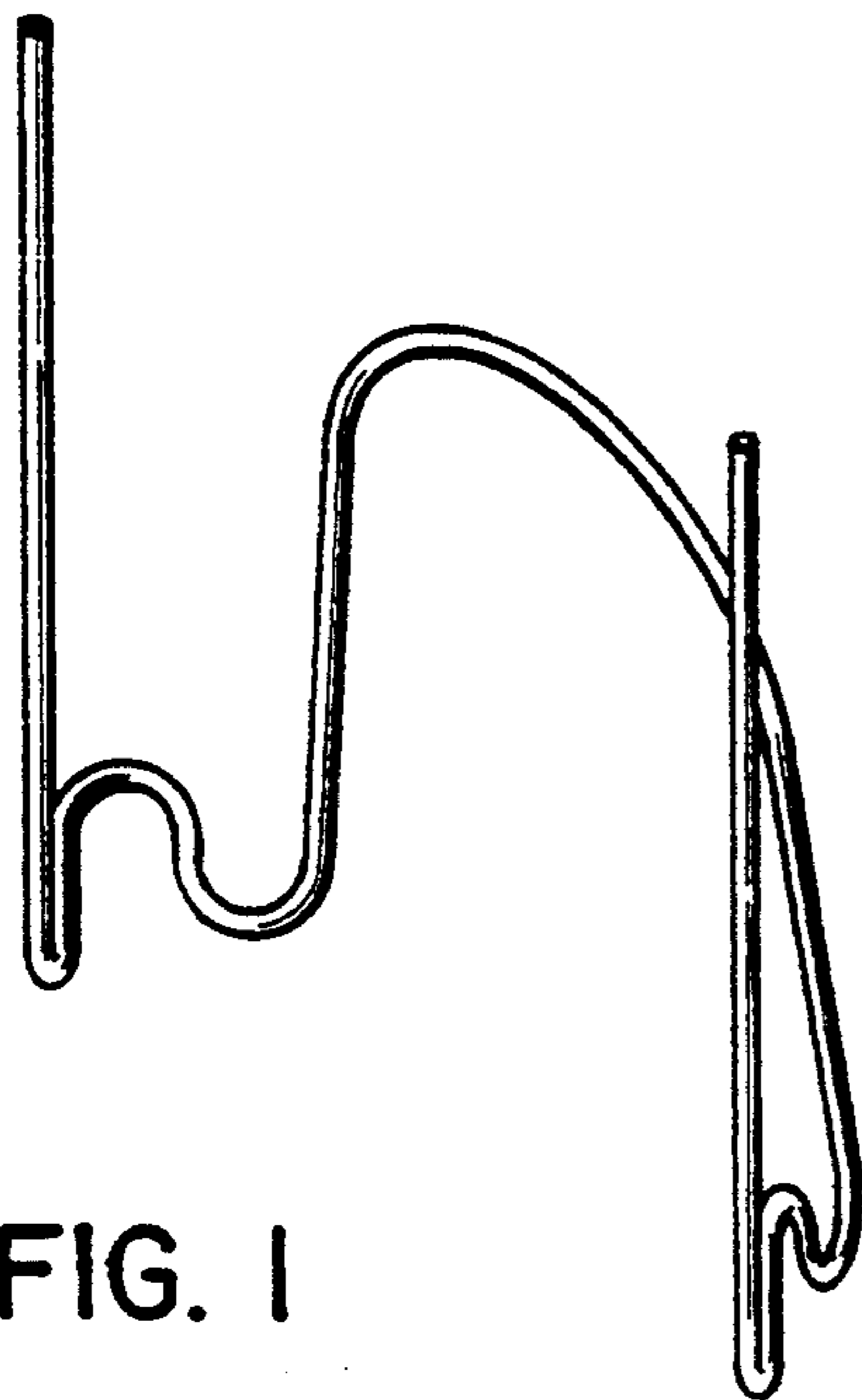


FIG. 3

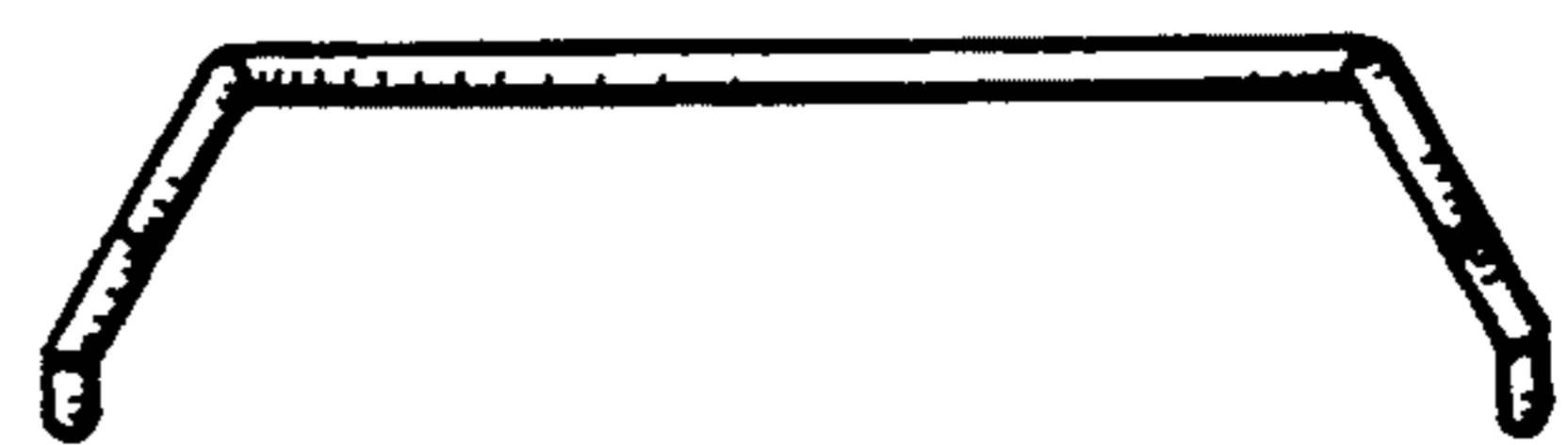
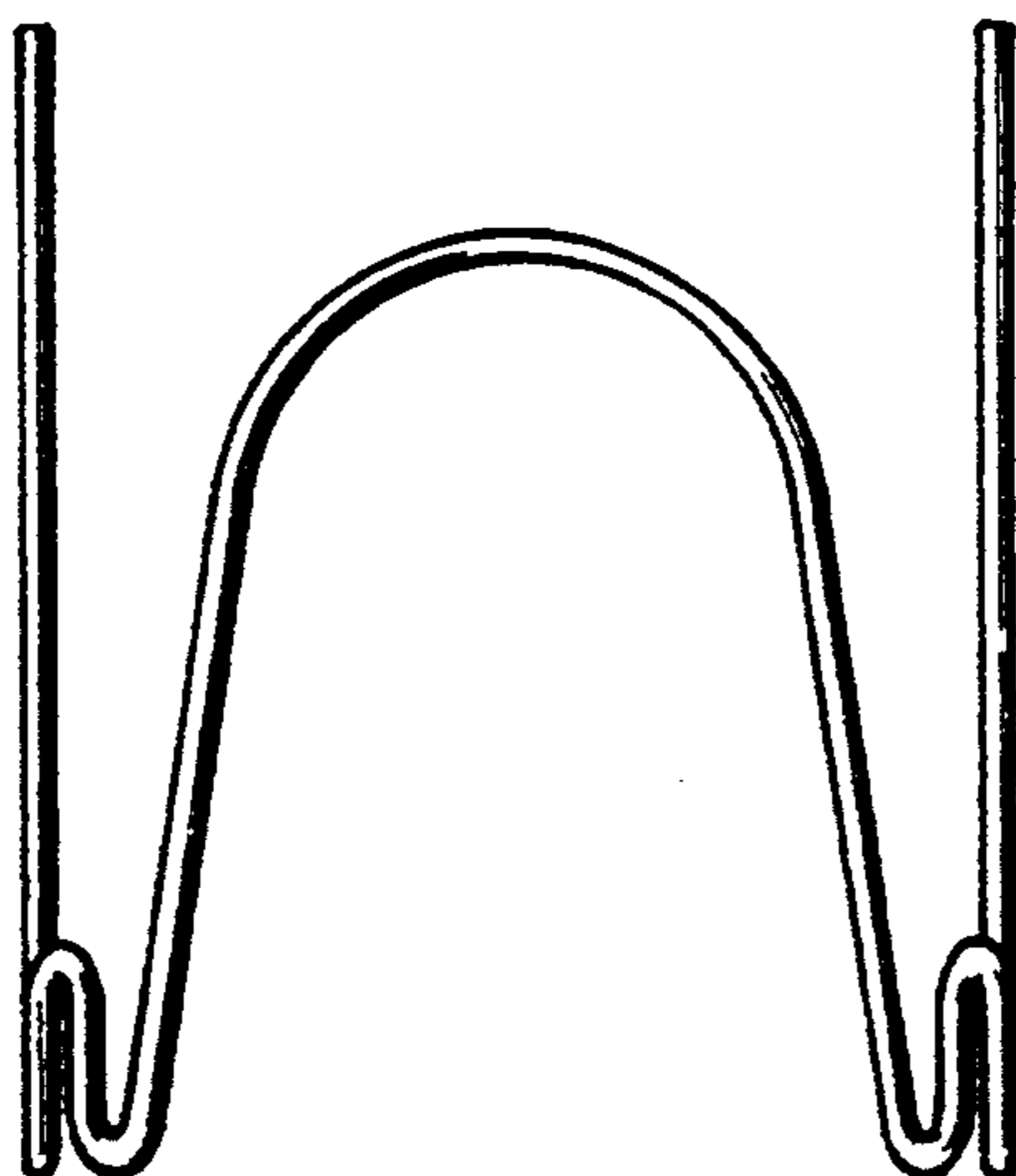
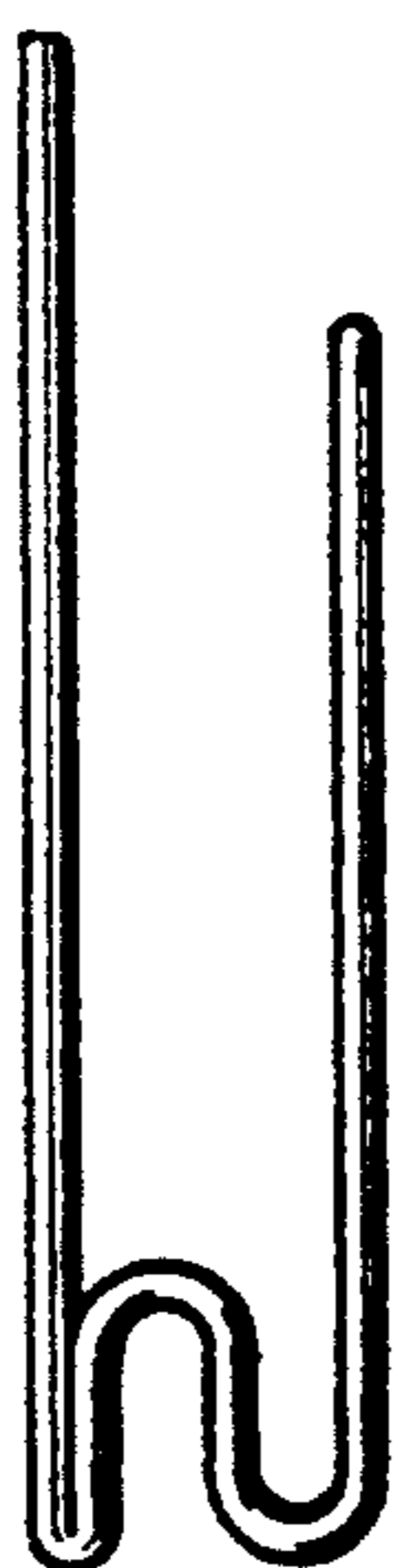


FIG. 6

FIG. 4

FIG. 5