

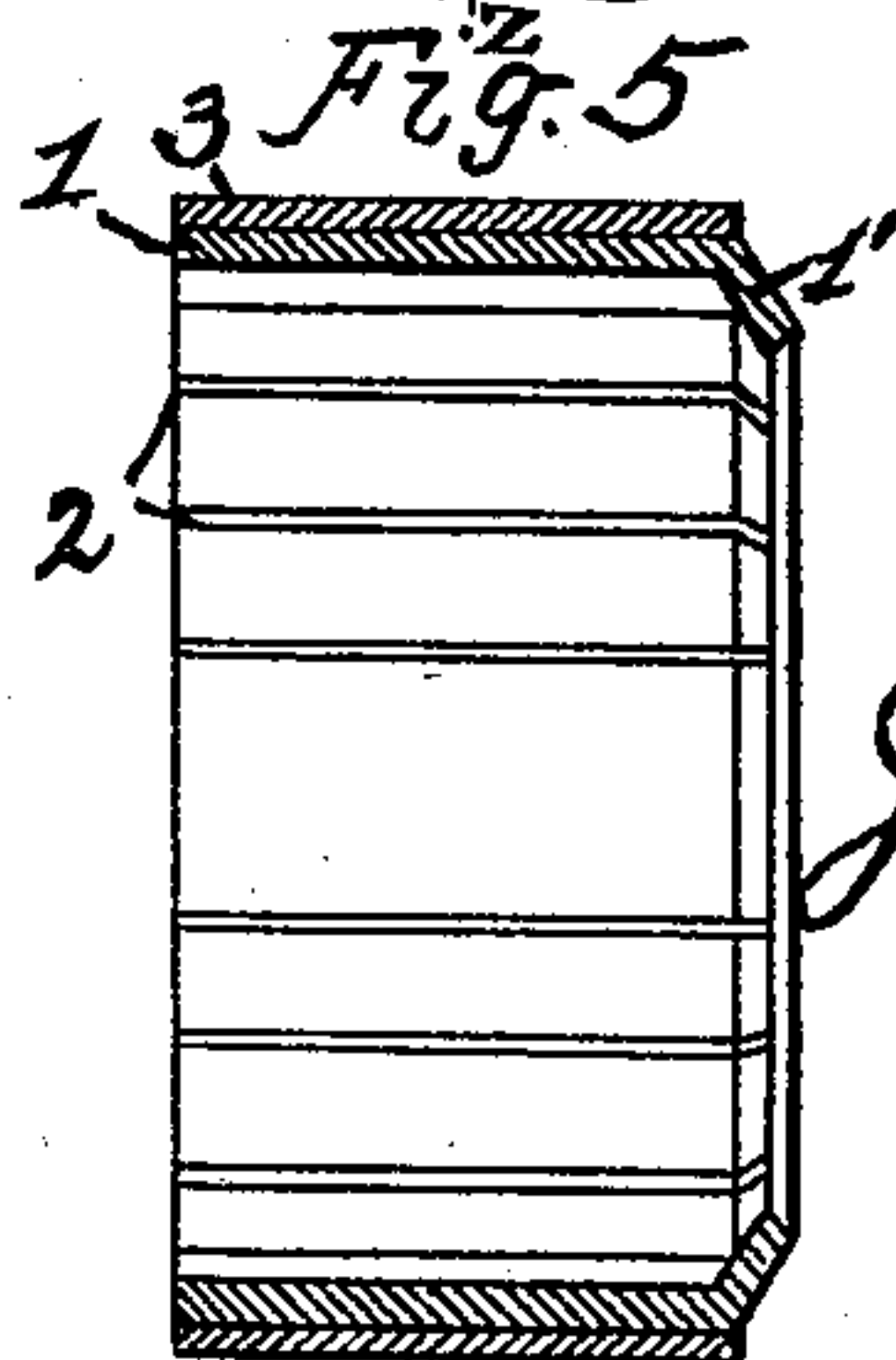
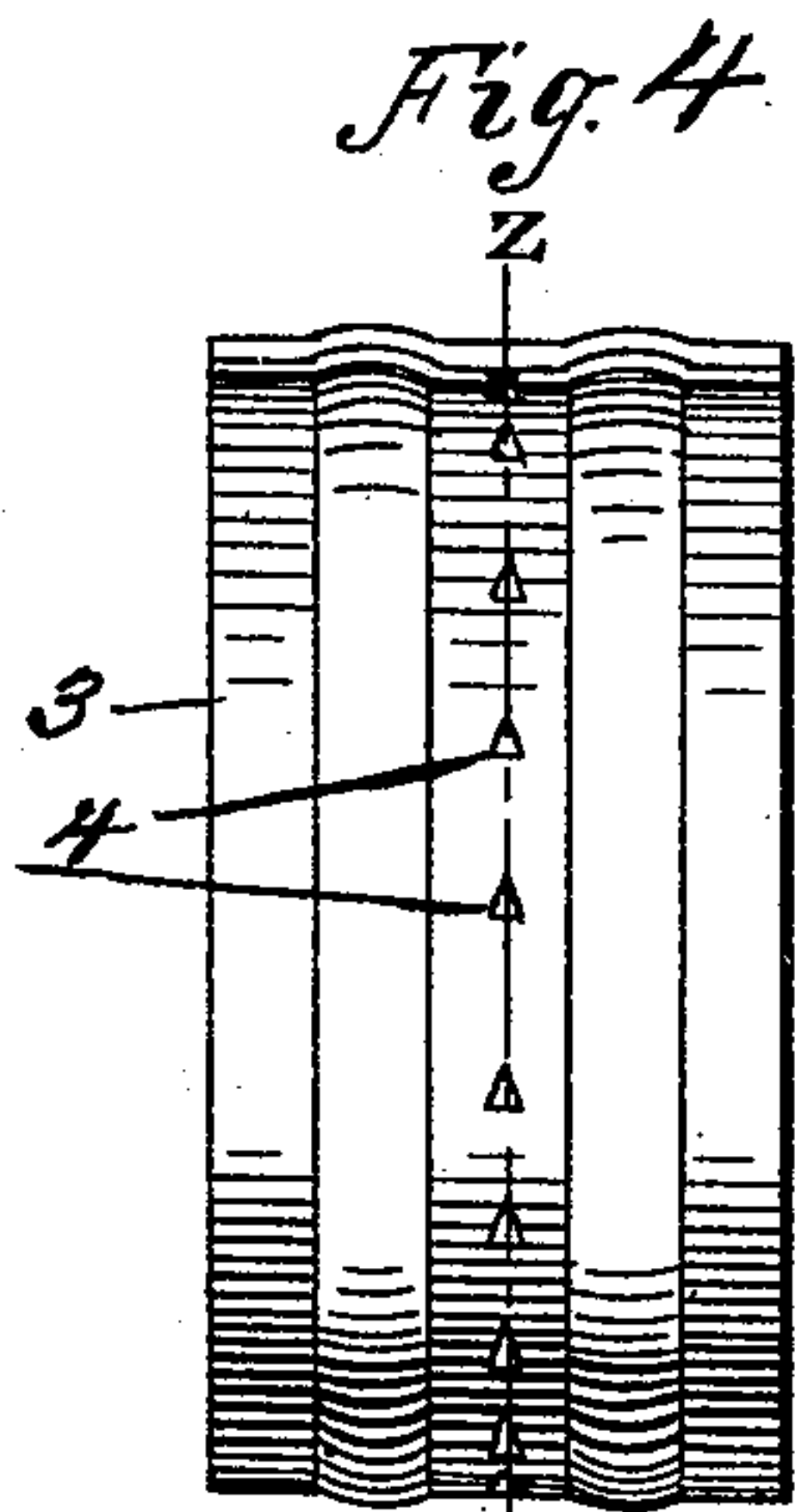
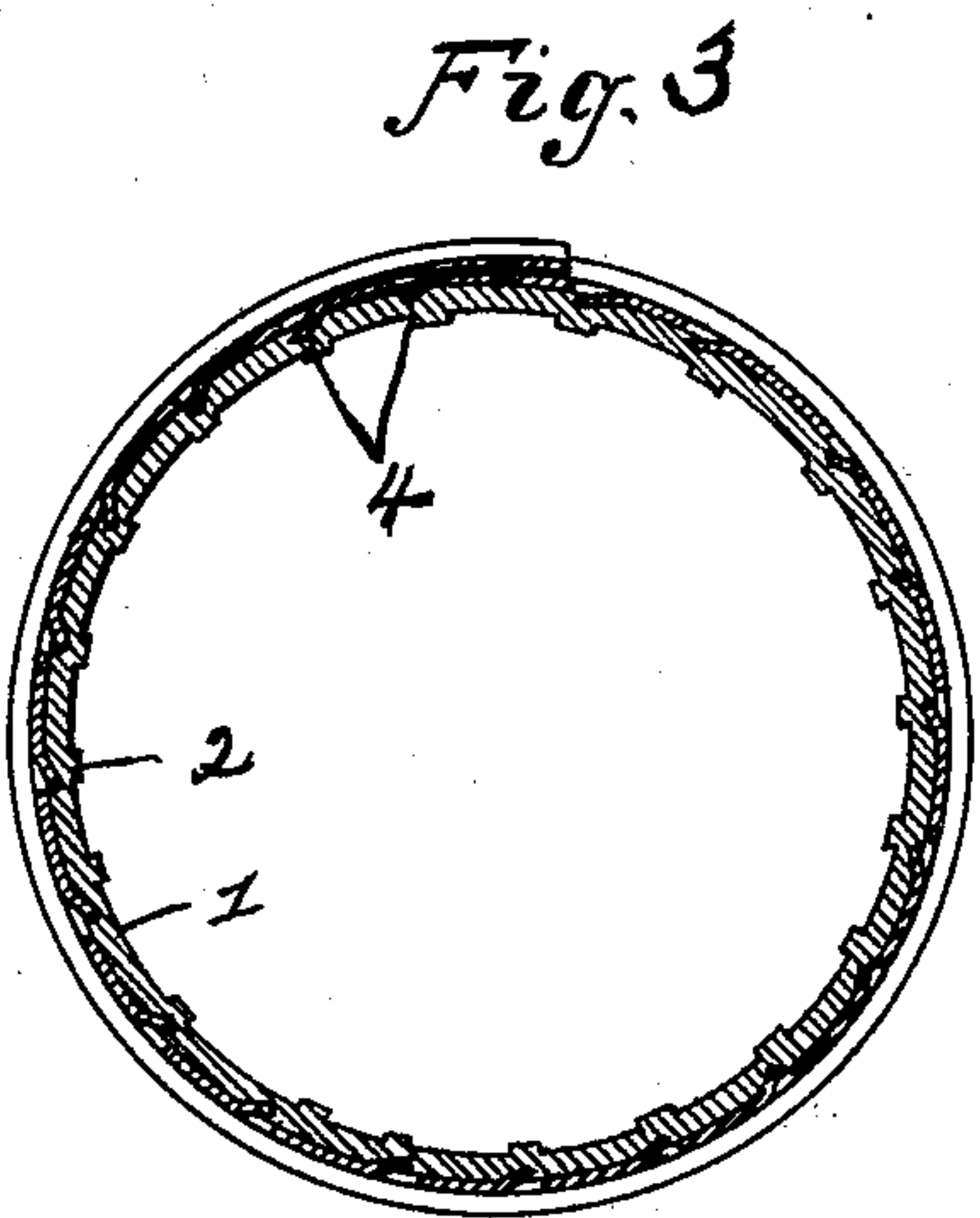
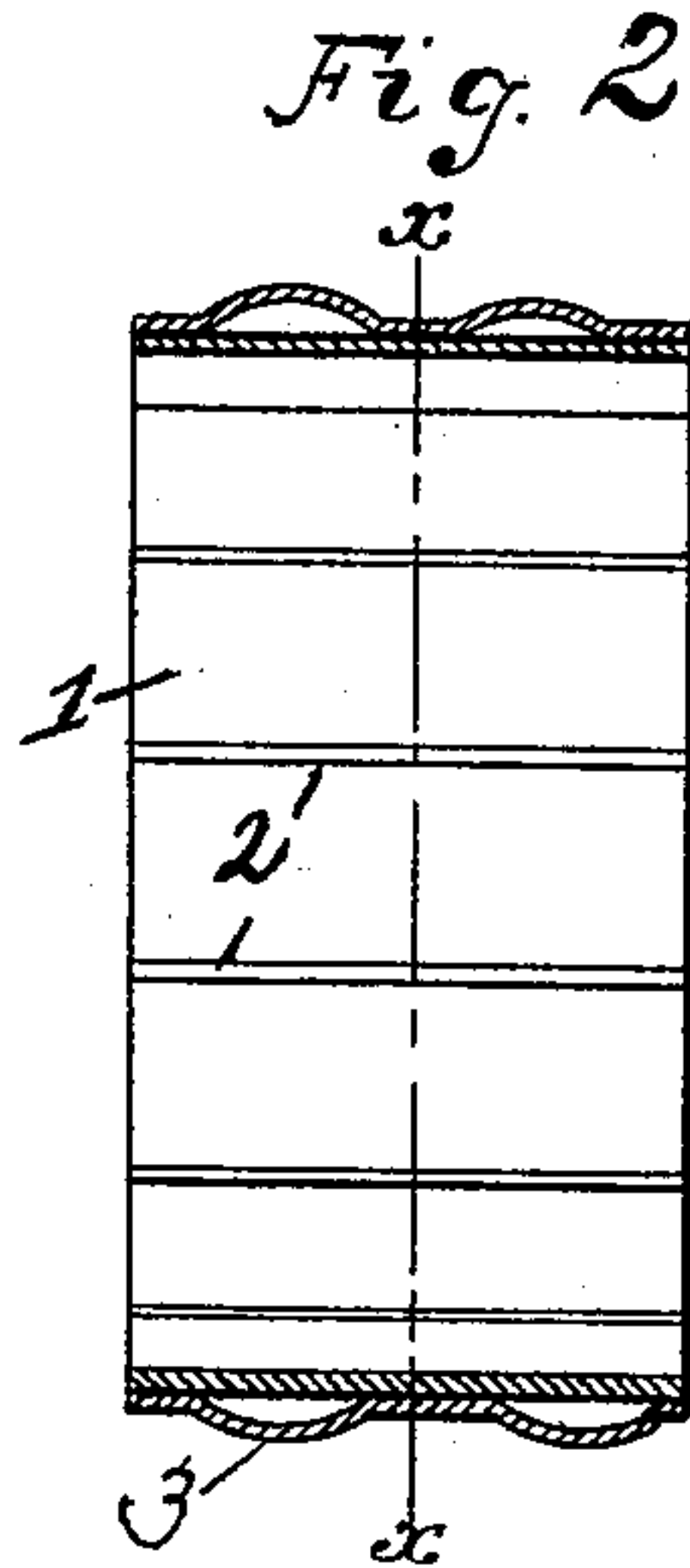
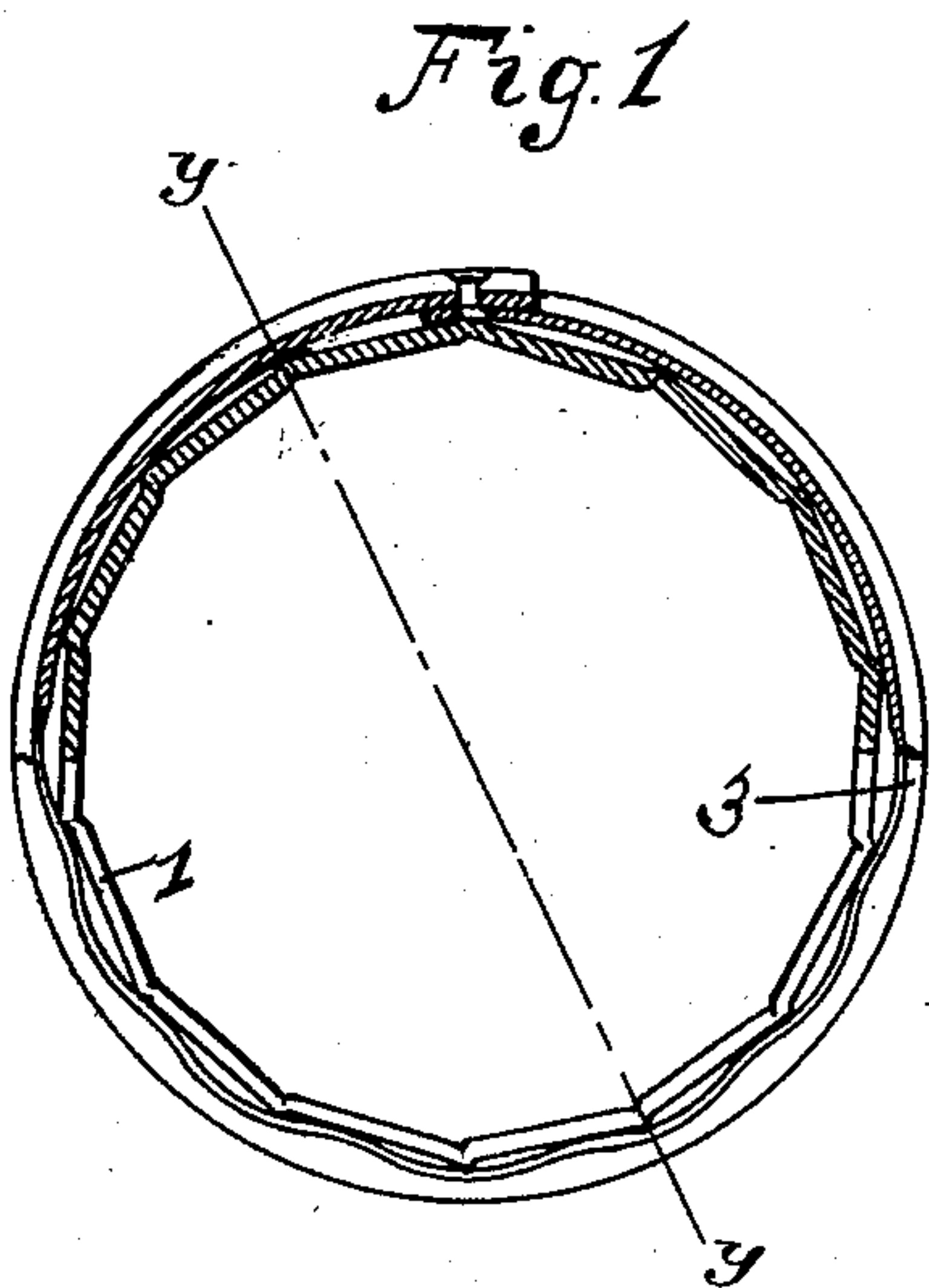
No. 636,566.

Patented Nov. 7, 1899.

J. SCHIRRA.
THREAD PROTECTOR.

(Application filed Apr. 4, 1899.)

(No Model.)



WITNESSES:

R. C. Curry
C. Williams

INVENTOR
Julius Schirra
BY *John H. Roney*
his
ATTORNEY.

UNITED STATES PATENT OFFICE.

JULIUS SCHIRRA, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF THIRTY-EIGHT FORTY-FIFTHS TO JOHN L. WERLING, MARTIN KUEHNLE, AND ALBERT J. GOULD, OF SAME PLACE.

THREAD-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 636,566, dated November 7, 1899.

Application filed April 4, 1899. Serial No. 711,668. (No model.)

To all whom it may concern:

Be it known that I, JULIUS SCHIRRA, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Thread-Protectors; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 indicates a sectional view, on line xx of Fig. 2, of a modified form of my improved thread-protector. Fig. 2 is a section of the same on line yy of Fig. 1. Fig. 3 is a sectional view, on line zz of Fig. 4, of the preferred form of my improved thread-protector. Fig. 4 is a side elevation of the same. Fig. 5 is a sectional view of modified form of protector.

My invention relates to devices adapted to protect threads upon pipes and other articles provided therewith.

The object of my invention is to produce a simple, cheap, and efficient device for such purpose.

In the practice of my invention I use a circle or ring formed of fibrous material, such as compressed wood-pulp or paper, which is surrounded on the exterior with a light metallic band.

I will now describe my invention, reference being had to the accompanying drawings, which form part of this specification, in which like reference characters indicate like parts wherever they occur.

Referring to the accompanying drawings, 1 is a band of fibrous material, preferably corrugated transversely to produce thread-

engaging surfaces 2 2 of limited but sufficient area to tightly retain the protectors upon the pipe or other article to which it may be secured.

3 is a metallic band secured upon the outer surface of said fibrous ring in any suitable manner, but preferably by forming in the center of said metallic band a series of inwardly-projecting points 4 4, which are adapted to engage in the fibrous ring, thereby firmly securing the same to said metallic band, as shown in the drawings.

In Fig. 5 I show a form of device in which the fibrous band 1 projects somewhat beyond the metallic band surrounding the same, forming the inwardly-projecting flange 1', adapted to protect the outer thread on the pipe or other article.

What I claim, and desire to secure by Letters Patent, is—

1. A thread-protector comprising a fibrous ring having transverse corrugations, and a metallic band secured to the exterior of said fibrous ring, substantially as set forth.

2. A thread-protector comprising a fibrous ring having transverse corrugations on its interior surface, and a metallic band having a number of inwardly-projecting points adapted to engage in said fibrous ring whereby the same is secured to said metallic band, substantially as set forth.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

JULIUS SCHIRRA.

Witnesses:

CLARENCE A. WILLIAMS,
JOHN L. WERLING.