

(No Model.)

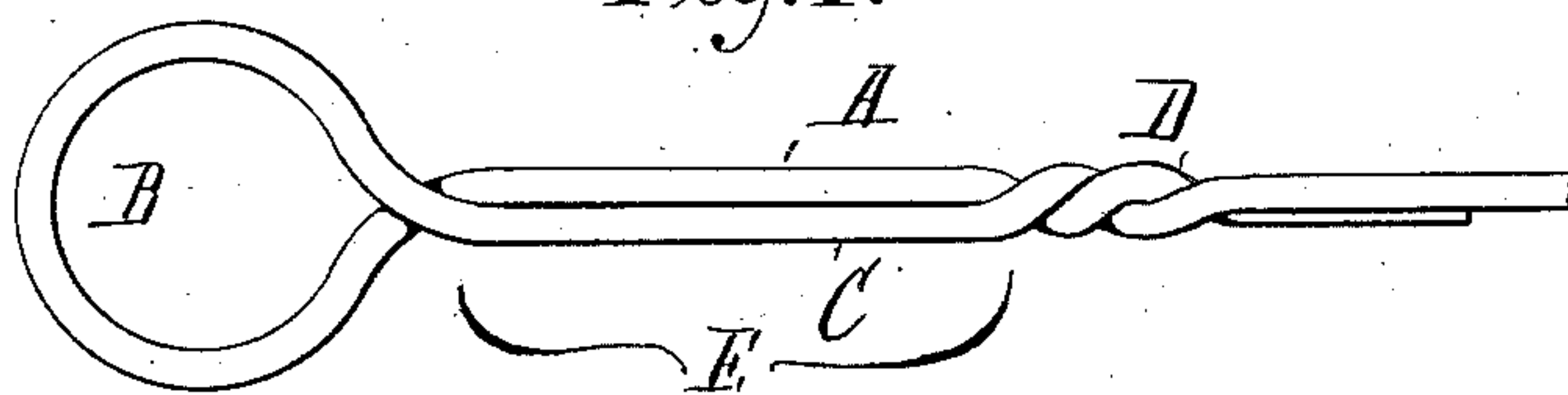
W. BROCKNER.

BALE TIE.

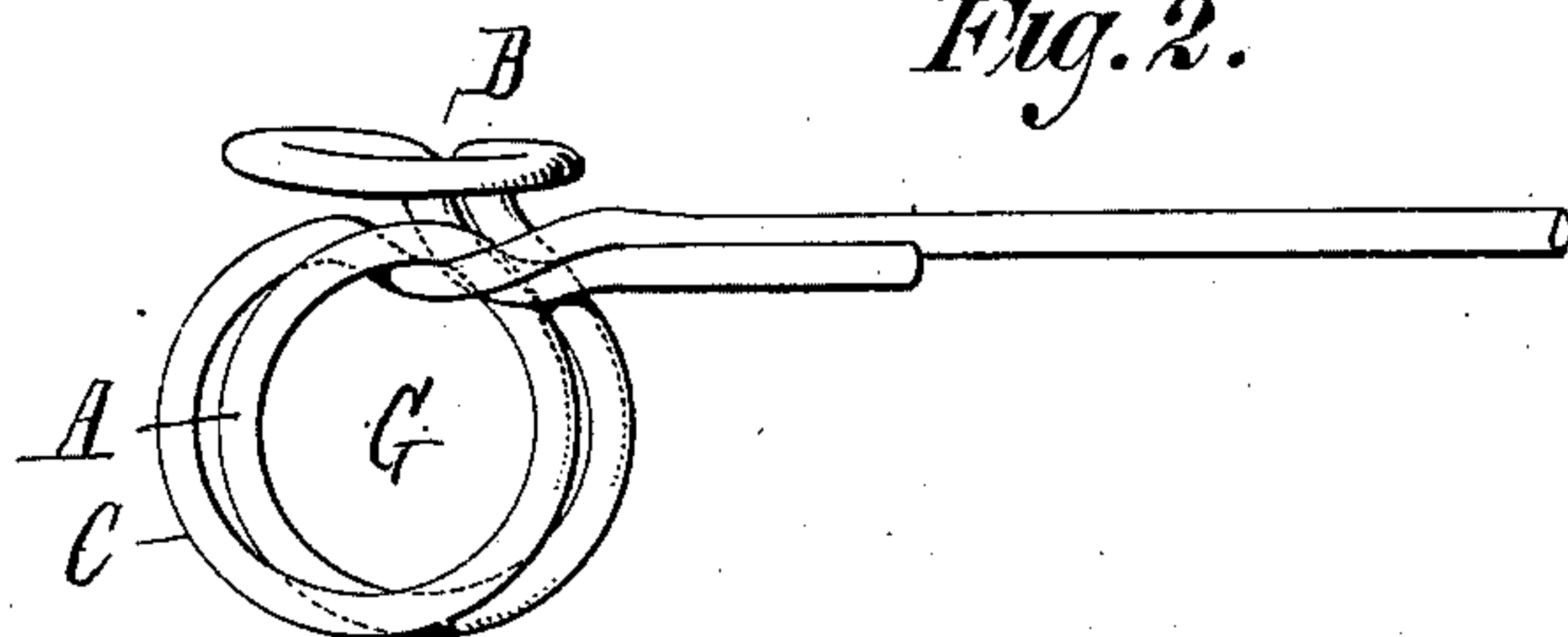
No. 311,227.

Patented Jan. 27, 1885.

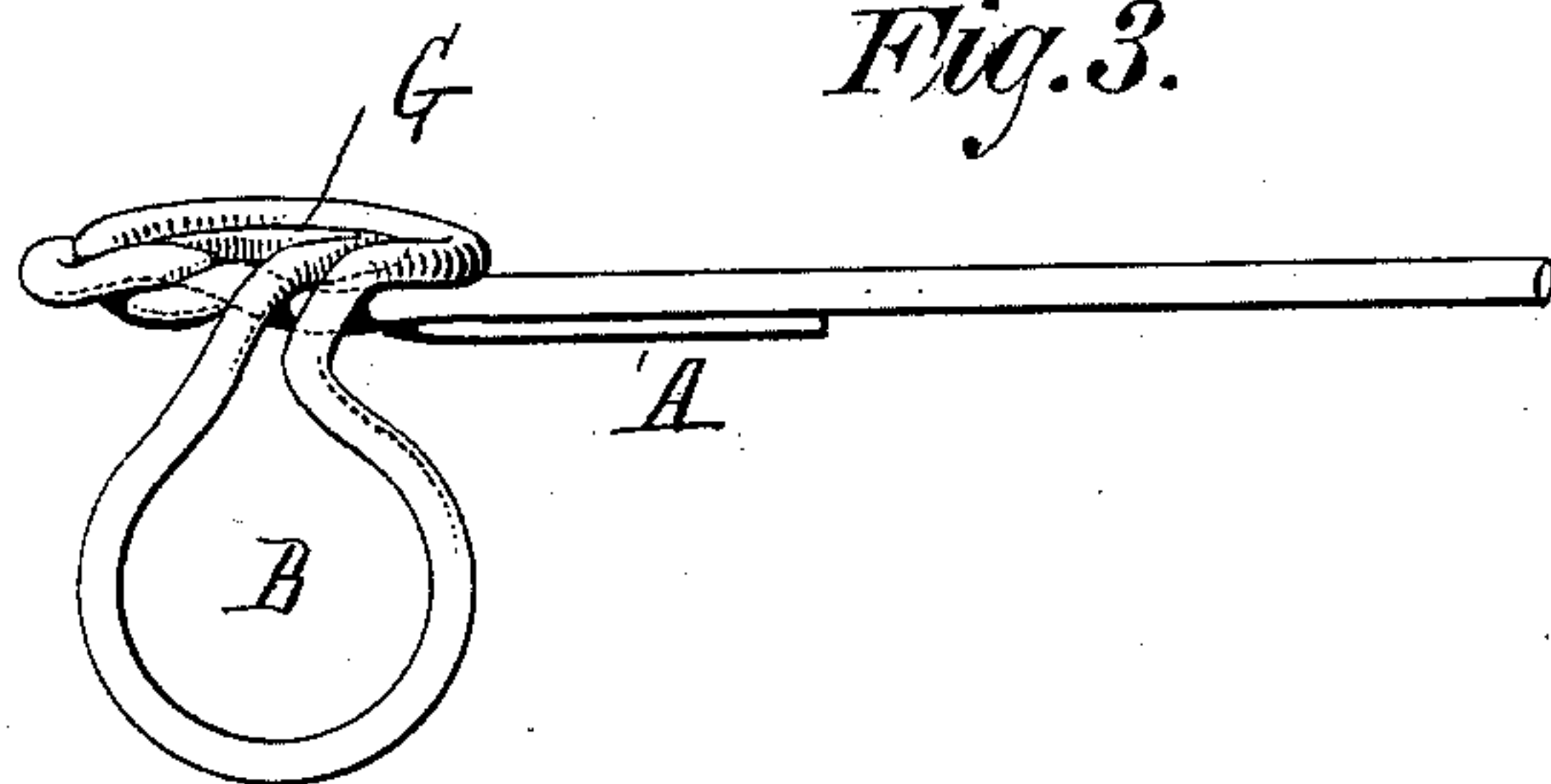
*Fig. 1.*



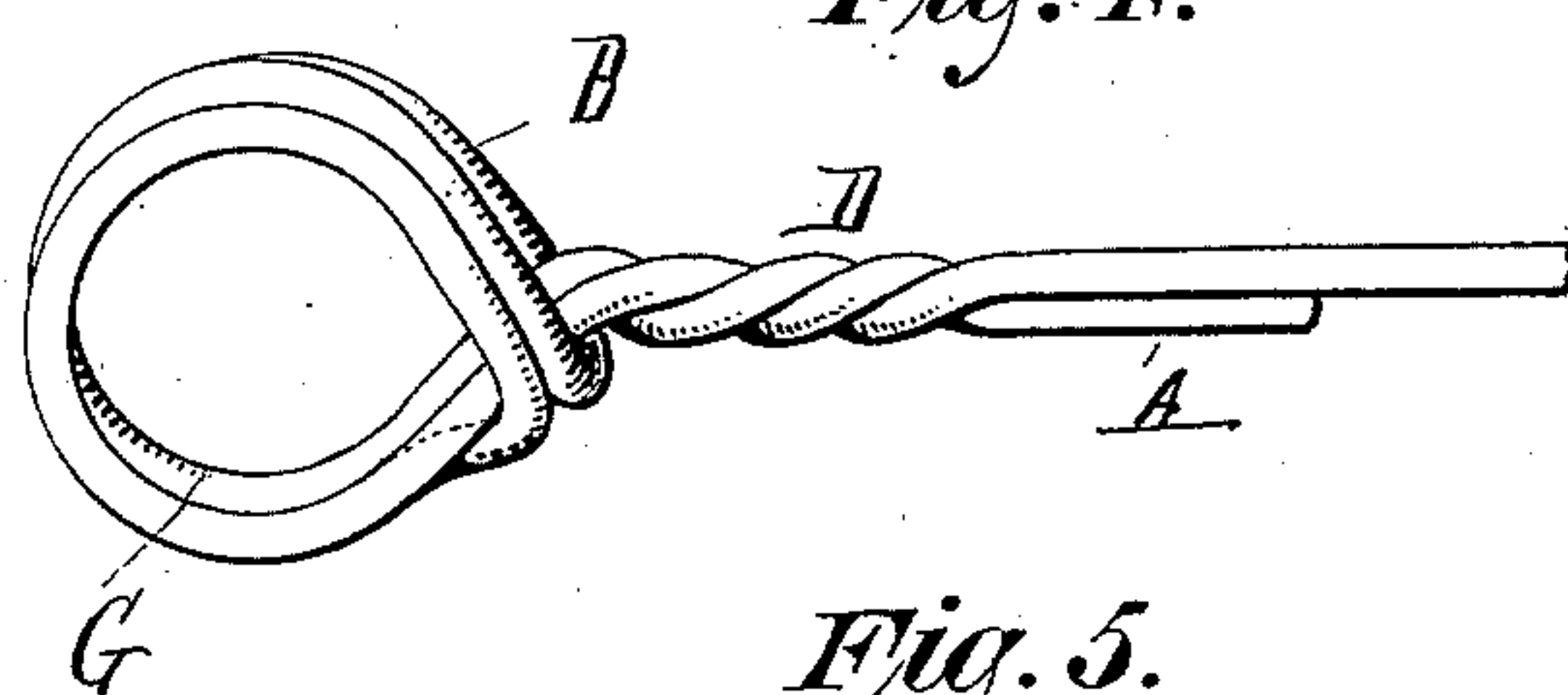
*Fig. 2.*



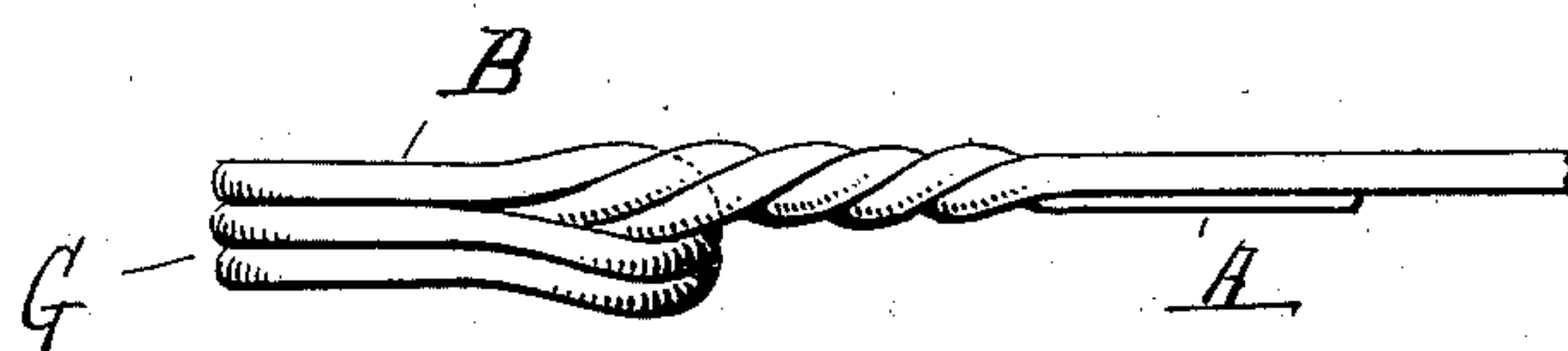
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WASHINGTON BROCKNER, OF NEW YORK, N. Y.

## BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 311,227, dated January 27, 1885.

Application filed July 24, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, WASHINGTON BROCKNER, of the city, county, and State of New York, have invented a new and useful Improvement in Bale-Ties, of which the following is a specification.

The invention relates to a bale-tie formed of wire; and it consists in the construction of the eye made at one end of the tie or band, into which eye the other end of the band is secured by first passing said end through the eye and then twisting or bending it back around its standing part.

In the accompanying drawings, Figure 1 and Figs. 2 and 3 show the disposition of the wire during two stages of the production of the eye. Figs. 4 and 5 represent, respectively, a front and an edge view of the eye completed.

Similar letters of reference indicate like parts.

I produce the eye in the end of the wire band in the following manner: A, Fig. 1, represents the end of the band at which the eye is to be formed. I bend over the extremity of said band to form a loop, B. I cross the part C so bent over the standing part A, carry said parts C and A parallel for a short distance at E, and then twist them together, as shown at D, Fig. 1. The parts of the wire being then disposed as in Fig. 1, I bend the portion so doubled at E, Fig. 1, to form a loop or eye, G, to which the loop B, previously made, now stands at right angles, as clearly shown in Figs. 2 and 3. I then bring the loop G down upon the loop B, so that the shank of the loop G will thus pass around both parts C and A of the wire, and so that the loop B, formed in the single part of the wire, and the loop G, formed in the doubled part, will lie side by side in the parallel planes, and so form substantially a loop consisting of three parts of wire, as shown in Figs. 4 and 5. The opposite end of the band, after the latter is applied to the bale, is passed through the eye so formed and secured back upon itself in any

desired way. The eye produced offers a large surface of metal to resist wear and strain, and is exceedingly strong and durable, while, as is apparent from the foregoing, its method of manufacture is simple.

I claim as my invention—

1. In a wire bale-tie, an eye or loop formed of three parts of the wire, one part being a closed loop formed in the end of the band by doubling over and twisting said end, and two parts being a closed loop formed in said doubled portion between the standing part of the wire and the first loop, the said two loops being placed relatively parallel and in contact, substantially as described.

2. In a wire bale-tie, an eye consisting of the double-stranded loop G and the single-stranded loop B, placed relatively parallel and in contact, substantially as described.

3. The method of making a three-stranded eye in the end of a wire bale-tie, consisting in first bending the end of the wire back upon itself to form a closed loop and a doubled portion; second, twisting or securing the bent-over extremity to the standing part; third, forming a closed loop or eye in said doubled portion between the loop first formed and the fastening-point; fourth, bringing the loop or eye first formed around the doubled standing part and into contact and parallel with the second loop, substantially as described.

4. The method of making a three-stranded eye in the end of a wire bale-tie, consisting in bending over and securing the end of the wire and forming a loop, as in Fig. 1; then bending the part so doubled to form a second loop, as in Figs. 2 and 3; then bringing the first-made loop around the standing part of and into contact and parallel with the second loop, as in Figs. 4 and 5, substantially as described.

WASHINGTON BROCKNER.

Witnesses:

DANIEL J. AUGUSTINE,  
F. W. SMITH.