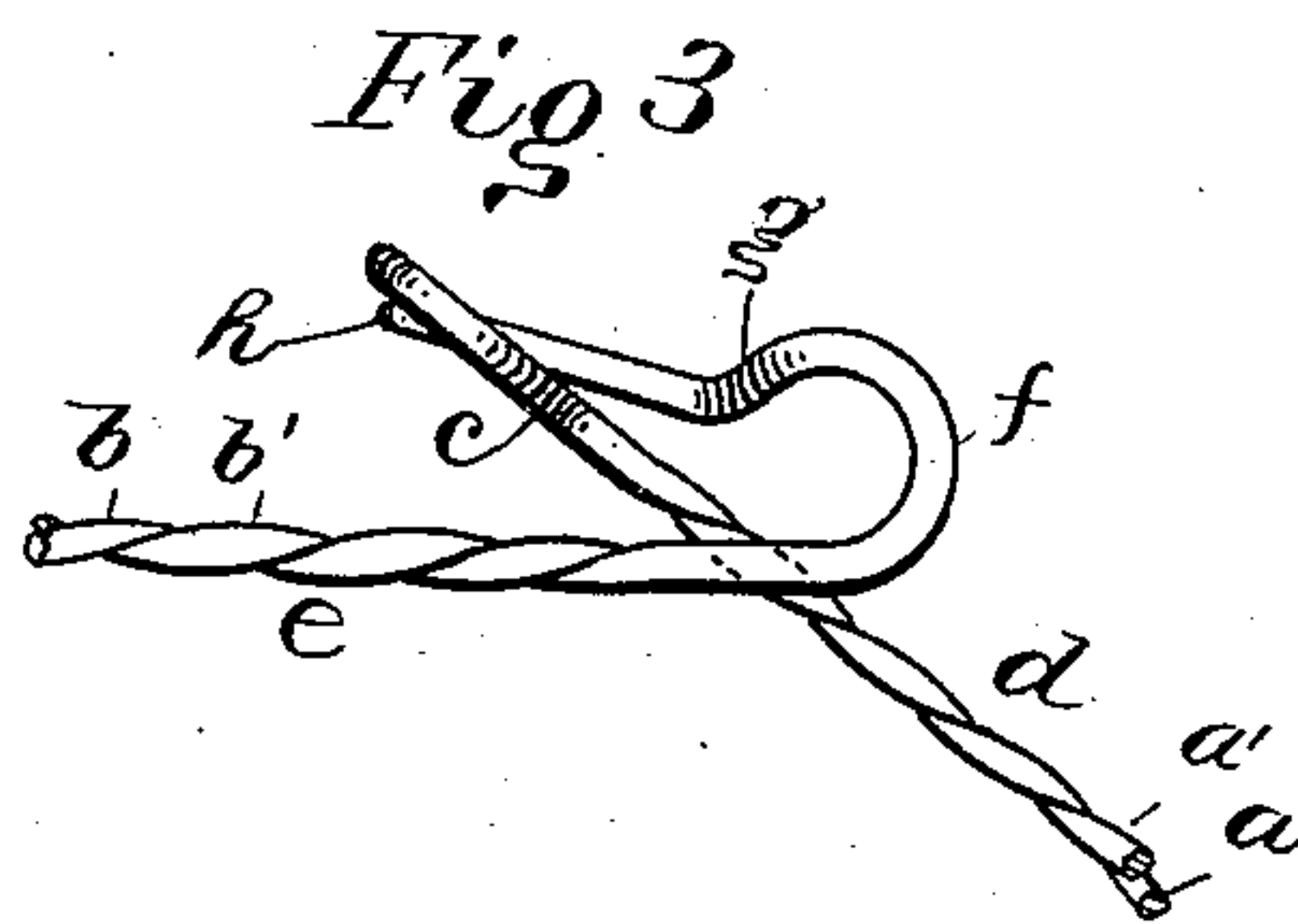
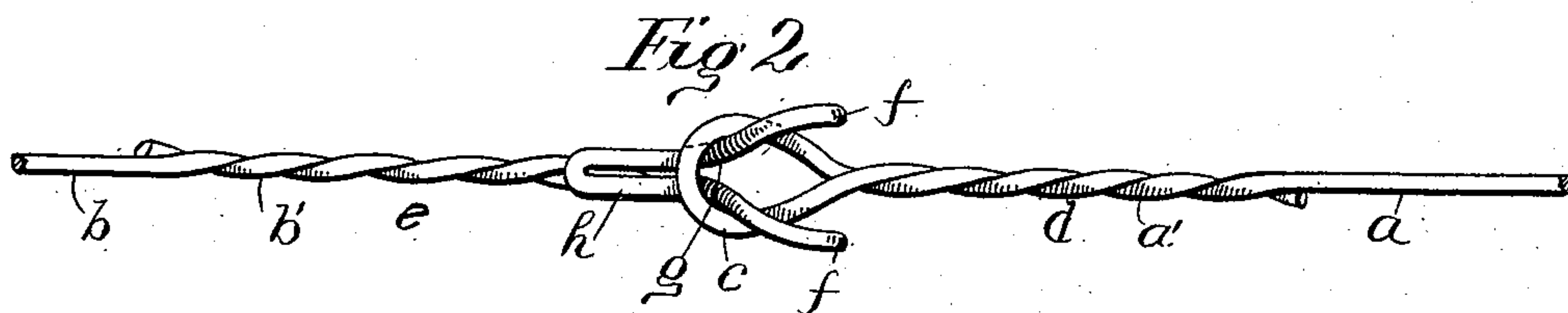
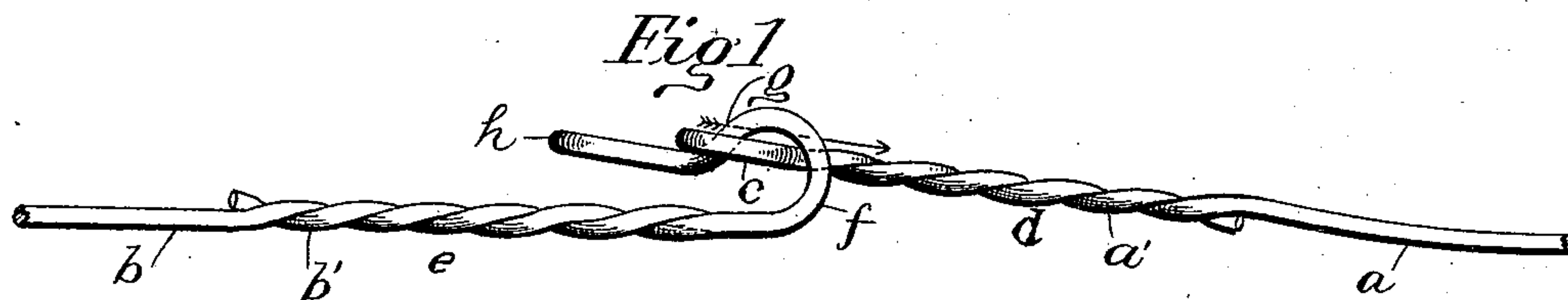


(Model.)

H. C. TULLY.
BALE TIE.

No. 471,628.

Patented Mar. 29, 1892.



Witnesses

C. C. Burdine
Geo. L. Wheelock

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UNITED STATES PATENT OFFICE.

H. CLINTON TULLY, OF MECHANICSBURG, OHIO.

BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 471,628, dated March 29, 1892.

Application filed June 1, 1891. Serial No. 394,661. (Model.)

To all whom it may concern:

Be it known that I, H. CLINTON TULLY, a citizen of the United States, residing at Mechanicsburg, in the county of Champaign and State of Ohio, have invented certain new and useful Improvements in Bale-Ties; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to that class of bale-ties constructed of wire having a hook formed on one end and adapted to engage an eye on the opposite end, and it is especially intended as an improvement upon ties in which the hook end is bent backward in such a manner as to receive the eye over the top of the point and draw the latter downward and clinch it by the expansion of the bale. It has been found in practice in these prior devices that while a good tie is effected the operation of tying and untying is accompanied with more or less difficulty.

The particular object of my invention is to so construct the tie that the operation of tying and untying can be more easily performed and at the same time insure a fastening that can be unfastened and the tie used again.

To this end my invention consists of forming the usual loop on one end of the band and the hook on the other end thereof, which hook comprises a pair of flaring or laterally-spreading curved portions extending upwardly, inwardly, and downwardly and terminating in an upwardly and rearwardly extending point, so that the loop can be the more readily passed between the diverging loops of the hook portion and over the point, thereby permitting the reverse operation to be more readily performed when it is desired to use the tie again.

In the accompanying drawings, Figure 1 represents a side elevation of my complete device in tied position; Fig. 2, a top view thereof; Fig. 3, a side elevation showing the position of parts as in the act of fastening or unfastening.

The reference-letters *a* and *b* represent the opposite end portions of a bale-band formed of wire. The extremity *a'* is bent back and

twisted around the end portion *a* and constitutes a neck *d* for a loop or eye *c*. The opposite or hook portion *b* consists of a hook formed out of wire by bending the extremity *b'* in the peculiar manner to be presently described, so that a neck *e* is provided.

The hook comprises a pair of flaring curved portions *f*, which extend upward and backward to form shoulders *g* for the reception of the loop *c*, and thence upward and backward to form a slightly-tapering point *h*. This construction permits the loop *c* to be readily passed between the flaring portions *f* and back far enough to be placed in an oblique position, as shown in Fig. 3, and then drawn forward, as indicated by the arrow in Fig. 1, until arrested by the shoulders *g*, and all further strain or draft upon the loop *c* will be resisted by the curved portions *f* without drawing the point down and clinching it against the neck portion.

It will be seen that the point *h* of the hook is located a short distance above the neck *e*, so that the loop may be easily passed beneath it in the coupling and uncoupling operation. The advantage of having this point overhang the neck and project upwardly is that the strain of the bale will fall upon the shoulders *g* and not draw the point downward and clinch it against the neck *b'*, so that the tie can be unfastened and used again, instead of necessitating its destruction or injury.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A bale-band provided at one end with the usual eye or loop, the other end being bent to form lateral flaring portions, which extend upward, backward, and downward to form shoulders *g* and terminating in an upwardly and inwardly extending overhanging point, as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

H. CLINTON TULLY.

Witnesses:

O. W. BEELER,
P. TULLY.