

(No Model.)

S. H. COCHRUN.
BALE TIE.

No. 540,236.

Patented June 4, 1895.

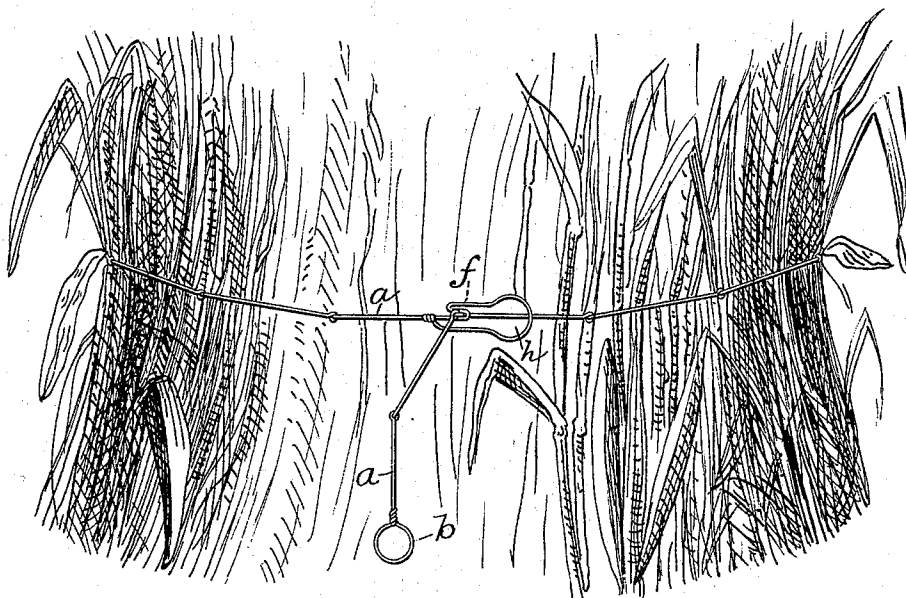
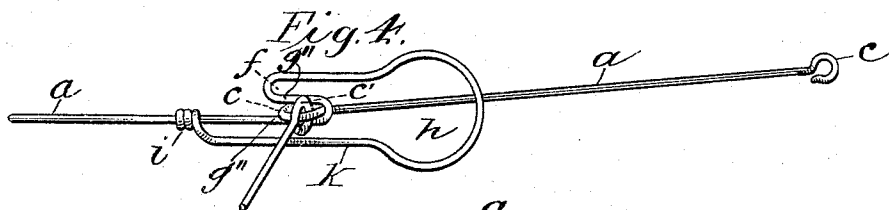
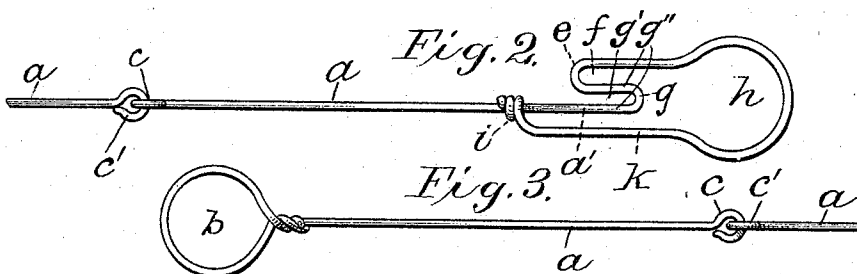


Fig. 1.



WITNESSES
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Fig. 5. A side view of the lever (a) with a circular end (b) attached. The lever is labeled 'a' and the circular end is labeled 'b'. A hook (f) is shown attached to the lever. The lever is pivoted at a point (h). The hook is labeled with 'e', 'f', 'g', 'g'', and 'h'. The lever is labeled 'a'.

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UNITED STATES PATENT OFFICE.

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BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 540,236, dated June 4, 1895.

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To all whom it may concern:

Be it known that I, SAMUEL H. COCHRUN, a citizen of the United States, residing at Tocsin, in the county of Wells and State of Indiana, have invented certain new and useful Improvements in Bale-Ties; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to a temporary binder for cornstalks, bales, &c., and my object is to provide a device which can be more quickly and conveniently tied and untied without altering or adjusting any of its component parts, so that it can be used over and over again.

To this end my invention consists of a peculiarly formed girdle or thong having secured to one end thereof a hooking or catching device constructed in a novel manner out of the wire itself of which the girdle is made, and being formed so that it can be grasped by the hand in the operation of tightening and loosening the binder, all of which will be more fully described hereinafter and pointed out in the claims.

In the accompanying drawings, Figure 1 represents a stack of cornstalks to which my device is applied; Fig. 2, a side view of the hooking end of the girdle or thong; Fig. 3, the opposite extremity thereof; Fig. 4, a side view showing the hook or catch in engagement with the body of the girdle; and Fig. 5, an edgewise view of the preceding figure, also showing the manner in which the parts assemble themselves in the fastening operation.

The girdle itself is formed of a number of links *a*, made preferably of galvanized iron wire joined together by means of eyes *c* and *c'*. These links may be given any length suitable to the particular purpose for which the device may be used. In the present instance they are made preferably of No. 16 galvanized iron wire about four inches long, which size is specially advantageous in using the device

for stacking corn stalks where only a comparatively loose tension is necessary. At one end of the girdle a finger loop *b* is formed and at the other end, which is the hook end, the last link is provided with a loop *h* adapted to be grasped by the fingers. In connection with the loop, and bent out of the same wire which forms the link, is provided a hook *f*. This loop and hook are made by giving the wire a lateral bend to form a shoulder *g* from whence it extends backward parallel with the body portion *a'* a distance sufficient to leave an elongated mouth or recess *g'* having a width less than the diameter of the link eyes *c*, *c'* so that the latter will not slip through, but will engage the sides *g''* of the recess, and said shoulder, and lock the parts together. The wire is then bent laterally to form the nose *e* of the hook from whence it extends back to the circular loop *h*. From the termination of the loop the wire returns on a straight parallel line *k* to a point below the end of the hook where it is fastened to the body portion *a'* by the coils *i*.

Thus constructed the operation of using is performed by passing the girdle around the object to be bound and while grasping one end of the girdle with the left hand, the other end can be grasped with the right hand and the girdle brought to the required tightness whereupon the hook can be passed over one of the links. Upon relaxing the tension of the girdle the link will slide endwise through the mouth of the hook until engaged by the eye of the adjoining link which will always lie crosswise of the mouth of the hook to lock the parts together, as before mentioned.

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

1. A binding or baling device consisting of a wire girdle composed of a series of links connected to each other by means of interlocking eyes or loops *c* and *c'*, in combination with a hook having a mouth *g'* of less diameter than the eyes, and capable of receiving the body portion of the links, and a hand-loop *h*, consisting of an enlargement at the head of the hook, substantially as described.

2. The combination in a binding or baling device, of a series of links *a*, formed of a single strand of wire and having interlocking eyes or loops *c* and *c'*, a hook *f*, having a
5 mouth *g'* narrower than the diameter of the eyes, and being bent out of and integral with the terminal link of said series, a loop *h* by which one end of the device is held, and a ring

b, formed on the end of the opposite terminal link, substantially as described. 10

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

SAMUEL H. COCHRAN.

Witnesses:

FRED SANOFR,
JAMES D. BROWN.