

P. C. Ingersoll.

Cotton Bale Tie.

N^o 66,087.

Patented Jun. 25, 1867.

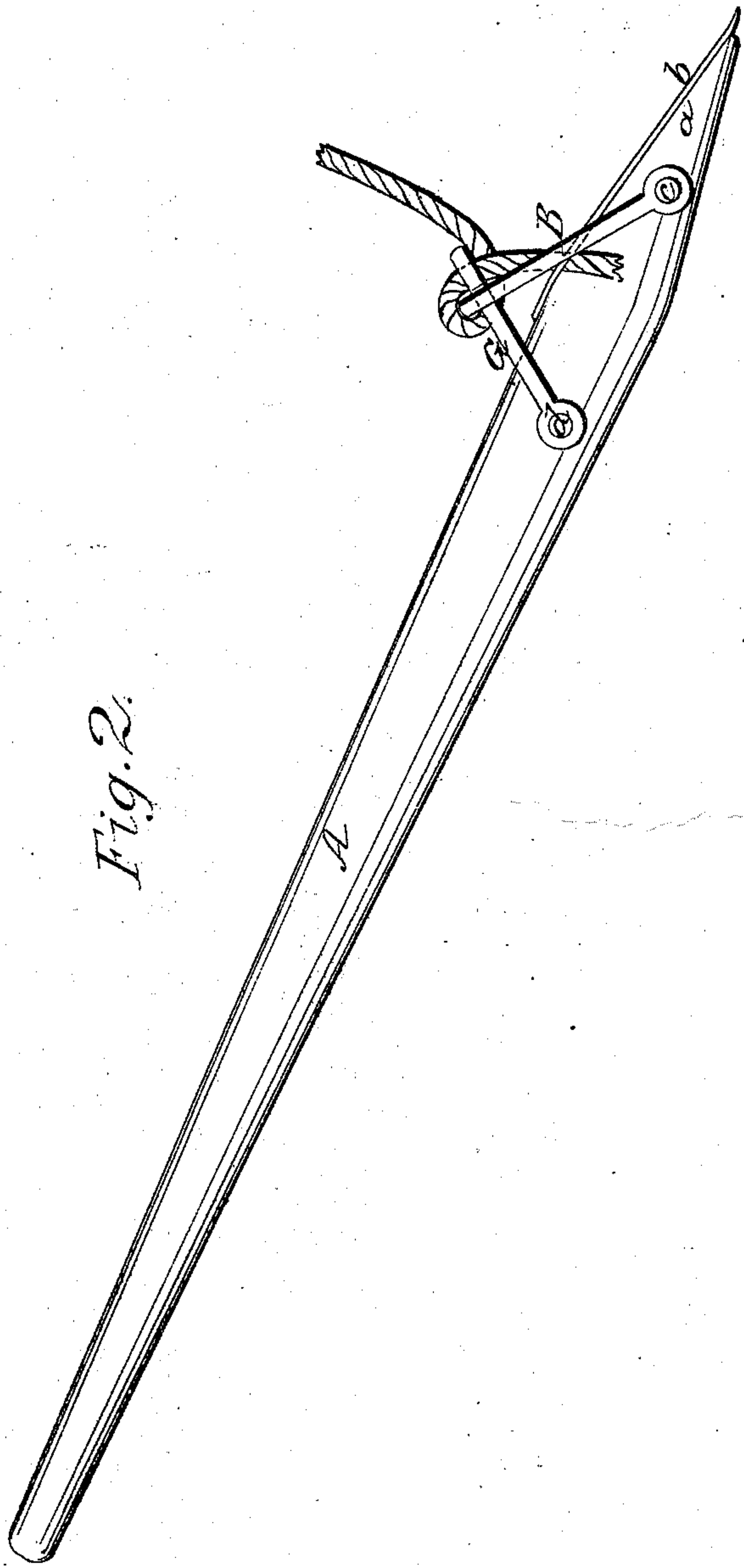


Fig. 2.

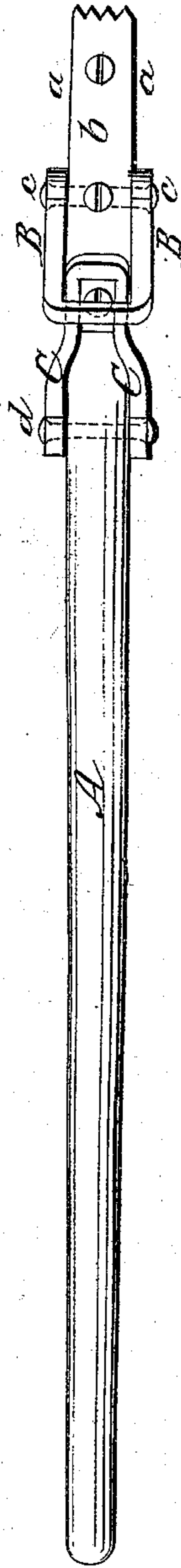


Fig. 1.

Witnesses.

*Geo. W. Reed,
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Inventor.

Platt C. Ingersoll.

United States Patent Office.

PLATT C. INGERSOLL, OF GREENPOINT, NEW YORK, ASSIGNOR TO HIMSELF
AND H. F. DOUGHERTY, OF SAME PLACE.

Letters Patent No. 66,087, dated June 25, 1867.

IMPROVEMENT IN BALE-BAND TIGHTENER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, PLATT C. INGERSOLL, of Greenpoint, in the county of Kings, and State of New York, have invented a new and improved Bale-Band Tightener; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a portion of this specification, in which—

Figure 1 is a plan or top view of a band-tightener constructed according to my invention.

Figure 2 is a side view of the same.

Similar letters of reference indicate corresponding parts in both figures.

This invention is designed as a substitute for the hand-spike commonly employed in tightening the rope bands of cotton and other bales; and it consists in a lever furnished at one end with two clamping links or grippers, which operate to clasp the end of the band and enable the same to be drawn up to any desired degree of tightness, whereby the inconvenience and loss of time necessitated by winding the end of the band upon the hand-spike, as in the common method of tightening, is completely obviated.

To enable others to understand the construction and operation of my invention, I will proceed to describe it with reference to the drawings.

A represents a lever which may be of wood, and of any desired or suitable length, and which has one of its ends made tapering as shown at *a*. Upon one side of this tapered end of the lever A is secured a flat metal plate, *b*, the outer extremity of which projects beyond the extremity of the lever, and is made toothed or serrated, as shown more plainly in fig. 1, in order that it may be made to catch when desired in the side of the bale during the operation of tightening the bands thereon, as will be hereinafter further set forth. B represents a clamping-link or gripper, the inner end of which is pivoted to the lever A, near the end *a* thereof, by means of a transverse pin, *c*. Another clamping-link or gripper is shown at C, and in like manner pivoted to the lever A by a similar transverse pin, *d*, but nearer the middle portion thereof than the gripper B, and at a suitable distance from the said gripper, the outermost end or portion of the gripper C being made narrower than the corresponding end of the other gripper in order that when the two grippers are brought into a position transverse to each other, as shown in the drawings, the said outer portion of the gripper C will pass through the corresponding portion of the other gripper B. The band being passed around the bale in the usual or in any suitable manner, the free end thereof is first passed through both of the grippers B C, and then back over the outer end of the gripper C, and under that of the gripper B, or, in other words, between the outer ends of the said grippers, in such manner that when a strain is exerted upon the band, a portion of which is shown in red outline in fig. 1, the said ends of the grippers will be drawn toward each other and clamp the band between them with a degree of pressure proportioned to the strain exerted upon the band; the said strain being secured by first placing the end *a* of the lever A either under the lower edge of the bale or catching the tooth or serrated extremity thereof into the side of the said bale as hereinbefore mentioned, and then forcing downward the opposite or long arm of the lever, so that by these means the band may be tightly secured upon the lever during the operation of tightening the band, thus enabling the said operation to be performed without the trouble and loss of time involved in securing the end of the band to the hand-spike in the ordinary manner of tightening the band.

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

The clamping-links or grippers B C, in combination with each other and with the lever A, substantially as herein set forth for the purpose specified.

PLATT C. INGERSOLL.

Witnesses:

J. W. COOMBS,

GEO. W. REED.