

A. A. GOLDSMITH.

Bale-Ties.

No. 155,234.

Patented Sept. 22, 1874.

Fig. 1.

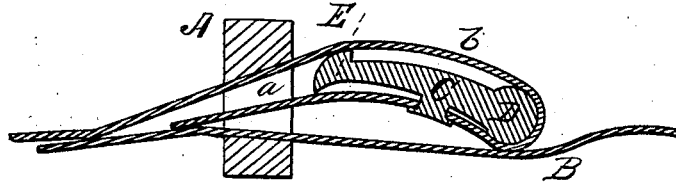
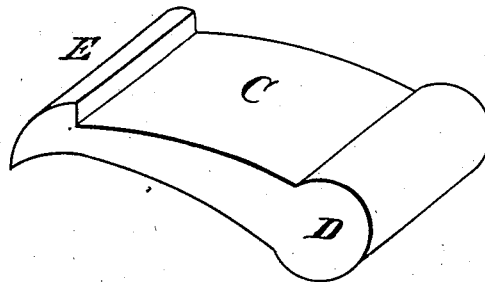


Fig. 2.



WITNESSES

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ABRAHAM A. GOLDSMITH, OF CHARLESTON, SOUTH CAROLINA.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **155,234**, dated September 22, 1874; application filed August 29, 1874.

To all whom it may concern:

Be it known that I, ABRAHAM A. GOLDSMITH, of Charleston, in the county of Charleston and State of South Carolina, have invented a new and valuable Improvement in Bale-Ties; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a sectional view of my bale-tie. Fig. 2 is a perspective view of the same.

This invention has relation to bale-ties, by means of which a mass of cotton, hay, hemp, or other like substance is retained in compact form; and the nature of the invention consists in the novel construction and arrangement, in connection with a metallic binder and a taperingly-slotted buckle, of a curved wedge, having upon its smaller end a downwardly-bent barb-like gripping part, and upon its other a cylindrical enlargement, which wedge is rigidly secured in a looped end of the said binder, and is inserted into a taperingly-slotted buckle along with and above the other end of the binder, whereby the said binder will be bent obliquely to the line of strain, when it is subjected to the expansive force of a baled mass relieved from compression, thereby preventing the plain end of the said binder from being drawn through the slot of the buckle, and producing an effective and positive union of the two ends, as will be hereinafter more fully explained.

In the annexed drawings, A designates a buckle, having through it a tapering slot, *a*, in connection with which my improved wedge is to be applied. B designates a metallic strap or binder, which is passed around a compressed

mass of cotton, for the purpose of holding it in compact form, and into a looped end, *b*, of which is rigidly secured a curved wedge, C. This wedge is riveted to the strap by means of a projection upon the concave side thereof, and it is preferably of wrought-iron. It also has upon its thicker end a cylindrical enlargement, D, and upon its other extremity a barb-like downwardly-curved gripping part, E, as shown in Fig. 2.

If, now, the plain end of the strap be passed through the slotted buckle A from its flaring surface, then around a compressed mass, and be finally again inserted into the slot beneath the wedge C, the releasing of the mass will cause the said wedge to be drawn into the slot *a*, when, in consequence of the enlargement D upon the thick end of the said wedge, the binder will be forcibly bent obliquely to the line of strain at the same time that the barb E upon the other end thereof obtains a positive and firm hold upon the said binder, effectually preventing its withdrawal from the slot, and consequently forming a perfect and solid union of the two ends of the encircling strap.

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

In a bale-tie, the curved wedge C, having upon its thick end the cylindrical enlargement D, and upon its other extremity a downwardly-bent barbed gripping part, E, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ABRAHAM A. GOLDSMITH.

Witnesses:

JOS. N. HINCKLY,
D. B. DUPONT.