J. W. PETTY.

BALE-TIE.

No. 185,959. Patented Jan. 2, 1877.

Fig. 1.

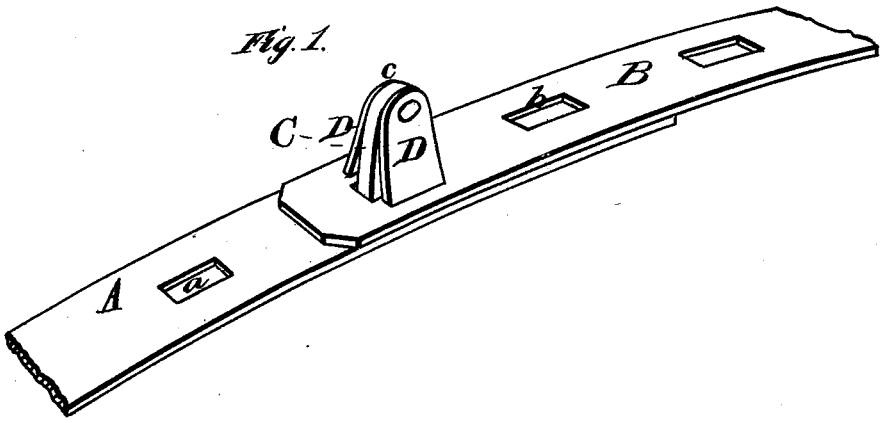


Fig. 2.

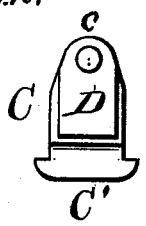
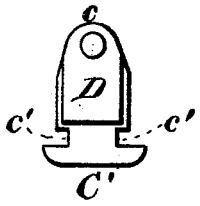


Fig. 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

JOSEPH W. PETTY, OF NEW ORLEANS, LOUISIANA.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **185,959**, dated January 2, 1877; application filed December 16, 1876.

To all whom it may concern:

Be it known that I, JOSEPH W. PETTY, of New Orleans, in the parish of Orleans and State of Louisiana, 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 drawings is a representation of a perspective view of my bale-tie, and Fig. 2 is a front elevation of my fastening for bale-ties. Fig. 3 is a front elevation of a modification of the same.

This invention relates to bale-ties for cotton and other compressible substances. The nature of said invention consists in the combination, with the perforated ends of a metallic hoop, of a rivet or fastening-bolt, having spring-flanges, which operate as barbs to prevent its withdrawal.

In the annexed drawings, A designates one of the ends of a metallic cotton-bale hoop, and B designates the other end of the same. The said ends A and B are respectively provided with oblong rectangular perforations *a* and *b*, the perforations *a* being preferably two in number, while those in end B may be as numerous as desired. C designates a metal pin or fastening-bolt, shown in detail in Fig. 2, provided with a head, C′, and tapering to a rounded point, *c*. The sides of said pin C are flattened, and to them, near said point, are secured spring plates or barbs D D, the attachment of said spring-plates being made at their outer ends, while the other or inner ends of said spring-plates expand laterally, so as to act as barbs, preventing the withdrawal of said pin C.

In fastening or tying said bale, said pin is first forced upward through one of the holes *a* in end A. The other end B of the hoop is then strained over said end A as far as possible, and one of its perforations, *b*, is forced upon said pin C, which passes up through the same, until the spring plates or barbs D D expand above said end B, and lock it tightly to end A. The first hole *a*, from the extremity of said end or part A, is used for plantation-baling. The other hole in said part A is used after compression, when it becomes necessary to shorten the hoop.

The shapes of pin C, as also of perforations *a* and *b*, may be varied at will. One modification of said pin is shown in Fig. 3, where notches or recesses *c′ c′* are made in the edges of said pin near head C′. Overlapping end or part A and underlapping end or part B of the hoop will be drawn, by the expansion of the cotton, in opposite directions into said recesses, so as to increase the firmness of the attachment of said parts and said pin.

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

1. Pin or fastening-bolt C, provided with head C′, and spring plates or barbs D D, constructed and arranged substantially as set forth.

2. Pin C, provided with spring plates or barbs D D, in combination with perforated ends A and B, of a bale-hoop, substantially as set forth.

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

JOSEPH WASHINGTON PETTY.

Witnesses:
CHAS. G. AUDRY,
GEO. GRIMA.