

(No Model.)

J. B. ROLLINS.
BALE TIE.

No. 486,795.

Patented Nov. 22, 1892.

Fig. 1

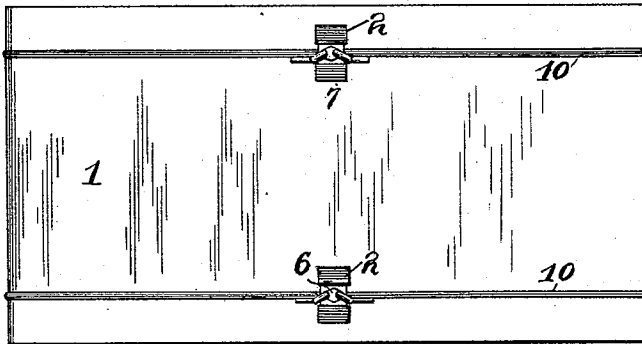


Fig. 2

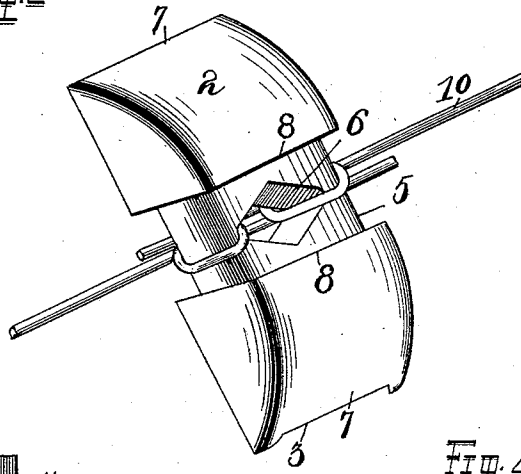


Fig. 3

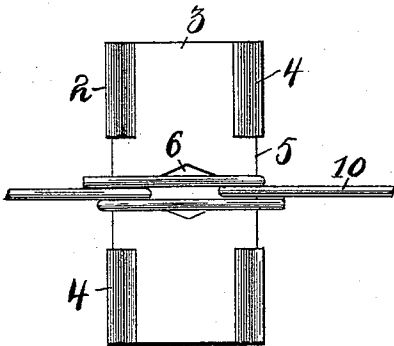
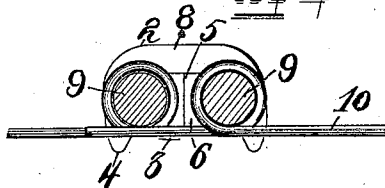


Fig. 4



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BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 486,795, dated November 22, 1892.

Application filed February 11, 1892. Serial No. 421,100. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH B. ROLLINS, of the city of Memphis, in the county of Shelby and State of Tennessee, have invented certain
5 new and useful Improvements in Bale-Ties, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in
10 bale-ties; and it consists in the novel arrangement and combination of parts, as will be more fully hereinafter described, and designated in the claim.

In the drawings, Figure 1 is a top plan view
15 of a bale having my complete invention applied thereto. Fig. 2 is a perspective view of the buckle and the ends of the tie properly attached to the same. Fig. 3 is a bottom plan view of the buckle and the ends of the tie
20 properly attached to the same, and Fig. 4 is a cross-section taken on the line *xx* of Fig. 3.

The object of my invention is to provide a novel and simplified construction in this class
25 of inventions which when properly applied to the bale will be prevented from slipping and, further, effectually hold the free ends of the tie in a manner as will be hereinafter more fully described.

Referring to the drawings, 1 represents a
30 bale of cotton or other material to which my invention is applied in a manner as shown in Fig. 1.

In carrying out my invention I employ ordinary wire for the bands, which is sufficiently
35 pliable to answer the purpose, each band of which is cut its proper length either before it is attached to the buckle or after the same has been attached to the buckle, as may be desirable.

2 represents the buckle, which is preferably
40 constructed from a solid piece of metal by cutting it in the shape as shown or by casting the same in a suitable mold for the purpose, as may seem preferable; but I presume the latter method of manufacturing the same
45 would be preferable.

The under surface 3 of the buckle is flat, and projecting from said under surface a
50 suitable distance are four V-shaped elongated extensions 4, which are located near the edge

of said buckle. (Best shown in Fig. 3 of the drawings.) By the employment of said extensions the buckle when in position as shown in Fig. 1, upon the bale, will be prevented from slipping, which is very essential, and, further,
55 provides sufficient space below the buckle and the bale for the ends of the ties.

The median portion 5 of the buckle is somewhat diminished in size, and through said median portion is formed a vertical diamond-
60 shaped opening 6, through which the ends of the tie are adapted to be passed.

The upper surface 7 of the buckle or top is somewhat curved in outline, the thickest portion of said buckle being adjacent to the median
65 portion 5, and the said buckle gradually diminishing in thickness to the outer ends of the same.

By constructing the buckle above described two shoulders 8 are formed which
70 are of sufficient height to protect the bands where they unite with the buckles, protecting said portions of the bands when the bale is handled or moved from one place to another.

By the formation of the upper surface 7 of
75 the buckle a smooth surface will be presented which allows the bale upon which the same is placed to be easily moved from place to place.

By referring to Fig. 4 it will be seen that the median portion 5 of the buckle presents
80 two separate and distinct parts 9, which are round in cross-section, around which the ends of the bale-tie 10 are placed in a manner as hereinafter described.

The bale-tie 10 is of the ordinary construction, and, as before stated, constructed of
85 wire, the ends of which are inserted from the under surface of the buckle through the opening 6 of the same, and said ends passed around and under the buckle, as best shown
90 in Fig. 3.

By the construction as above described the bale-tie 10 will not slip or release its hold
95 upon the buckle, and therefore all twisting of the wires is entirely dispensed with.

Having fully described my invention, what I claim is—

As an improved article of manufacture, a bale-tie consisting of a solid block formed upon its under surface at each corner with
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an edged extension 4, said block having its median portion reduced and provided with an opening forming two approximately-cylindrical parallel members 9, around which
5 the ends of the bale-wire are adapted to be secured, substantially as and for the purpose set forth.

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

JOSEPH B. ROLLINS.

Witnesses:

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