

J. W. Barnum.
Cotton-Bale Tie.

N^o 76143

Patented Mar. 31, 1868.

Fig. 1.

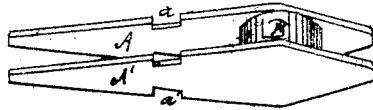


Fig. 2.

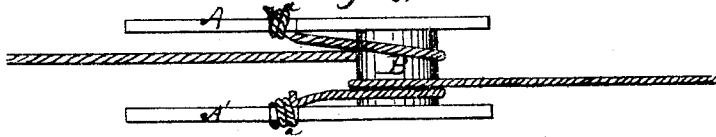
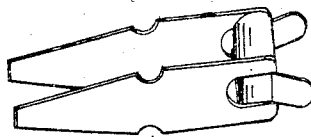


Fig. 3.



Witnesses

A. Barbarin
Rufus A. Rhoads

Inventor

James W. Barnum

United States Patent Office.

JAMES W. BARNUM, OF NEW ORLEANS, LOUISIANA.

Letters Patent No. 76,143, dated March 31, 1868.

IMPROVED COTTON-BALE TIE.

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, JAMES W. BARNUM, of the city of New Orleans, parish of Orleans, and State of Louisiana, have invented a certain new, useful, and improved device for fastening the ends of wire rope and wire together, when the same are applied to the banding of cotton or other bales; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which the device is shown as when made of cast or malleable iron and of plate wrought iron, and also as when fastening the ends of a band, and as when disconnected therefrom.

The particular object that it is designed to accomplish by my invention, is to take up the slack of the bands before the ends of the bands are fastened, and thus to prevent the expansion of the bale after it has been taken from the compressing-machine, and to preserve its shape or proportions, as the same has been imparted to it by such machine. But the further advantage is also attained of preserving the bands for further and continued use, by the employment of my device, because, in taking them off the bale, there is no need either to cut, untwist, or untie them, and hence they are not injured or shortened, and may therefore be applied to a new bale, as often as they are taken off one, until they are finally worn out by continued use. But my invention will be better understood by referring to the drawings.

At Figures 1 and 2, the device is shown as when made of cast or malleable iron, and it will be seen that it consists of two flat bars A A', between which a cylinder, B, is securely fastened not far from one end of the said bars. The bars are somewhat wider than the diameter of the cylinder at the point at which they are connected thereto, but from that point their width gradually and regularly diminishes to their points, as is clearly shown by the drawings. About midway between the cylinder B and the longest ends of the bars A A', notches a a' are cut into the latter, both upon their upper and lower edges, to afford a means of attaching the ends of the band thereto.

The application of my invention to use is as follows, to wit: The band is put around the bale, and its two ends, being passed around cylinder B in reverse directions, are fastened in the notches a a', as shown at fig. 2. The device is then turned over until all the slack is wound around the cylinder, and a considerable degree of tension is brought upon the band. This being done, the long arms of the bars A A' rest against the surface of the bale, and act as levers to prevent a reverse revolution of the device, and a consequent unlocking of the tie or fastening.

At Figure 3, the device is shown as when made of wrought plate-iron. It is slightly different in form from the device when made of cast or malleable iron, but its operation is precisely the same. The difference consists chiefly in the absence of the cylinder which is seen at figs. 1 and 2, but yet it will be seen that a curved support for the ends of the band nevertheless obtains, and that it is created by folding over certain parts of the plate between the bars to which the ends of the bands are attached. I consider the device as presenting its best form, however, when made as shown at figs. 1 and 2, and of cast or malleable iron, and only exhibit fig. 3 to demonstrate that it can be made of wrought iron.

When the bale has reached its destination, and is to be broken up, any proper instrument or lever may be inserted underneath the device to overturn it, and unwind the bands, so as to preserve them without cutting, or if this be found too difficult, in view of the great tension upon the bands, the device may be readily broken by the blow of a hammer, and the band be thus released without injury to it.

My device is simple and cheap, and of such easy application that no instruction is needed for its use.

What I claim, and desire to secure by Letters Patent is, as a new and useful article of manufacture—

The combination of the bars A A', when provided with the notches a a', with the cylinder B, or its equivalent, as shown at fig. 3, substantially as herein described for the purpose set forth.

JAMES W. BARNUM.

Witnesses:

A. BARBARIN,
RUFUS R. RHODES.