

W. P. ELLIOTT.
Bale-Tie.

No. 165,081.

Patented June 29, 1875.

FIG. 1.

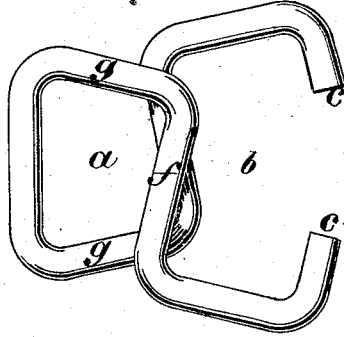


FIG. 2.



FIG. 4.

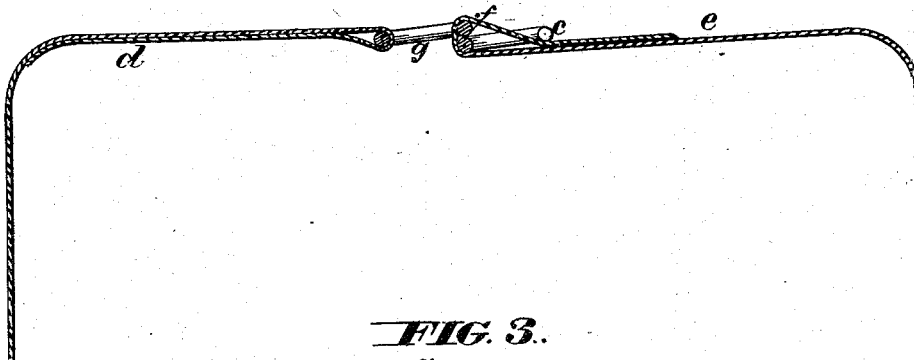
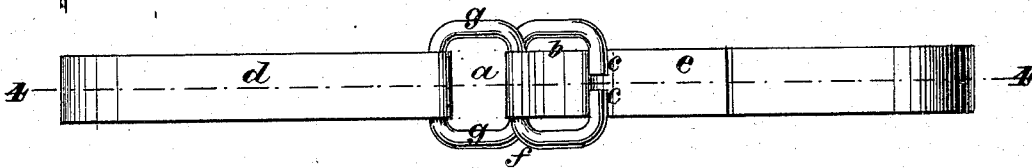


FIG. 3.



WITNESSES
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WILLIAM P. ELLIOTT, OF WILMINGTON, NORTH CAROLINA, ASSIGNOR TO
HIMSELF AND JAMES MAGIE FORSHEE, OF SAME PLACE.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **165,081**, dated June 29, 1875; application filed
January 21, 1875.

To all whom it may concern:

Be it known that I, WILLIAM PENN ELLIOTT, of Wilmington, in the county of New Hanover and State of North Carolina, have invented a new and useful Improvement in Bale-Ties, of which the following is a specification:

The subject of my invention is a wire bale-tie constructed in the form of a figure 8, with an open end, through which the free end of the hoop is passed, as hereinafter described. The tie or fastening is so constructed that the pressure or draft applied to it by the hoop tends to draw the extremities of the open end of the tie together, so as to hold and retain the end of the hoop.

In the accompanying drawings, Figure 1 is a plan view of a tie, illustrating my invention before its application to the hoop. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view thereof on a smaller scale as applied to a bale-hoop. Fig. 4 is a longitudinal section on the line 4 4, Fig. 3.

My improved bale-tie is constructed of a single piece of wire bent into the form of a figure 8, as shown in Fig. 1, forming two loops, *a* and *b*, the extremities *c c* of the wire having sufficient space between them to permit the passage of the loose end of the hoop in applying the tie, after which they are sprung or drawn together over the hoop-end, as hereinafter described, by the draft caused by the expansion of the bale.

In applying the device, the first end *d* of the hoop is passed through the close loop *a*, its extremity being folded under, so as to rest beneath the main portion of the hoop while in position. It will thus be held securely by the

pressure of the cotton or other matter in customary manner.

The hoop having been passed around the bale, the free end *e* is now inserted through the larger rear end of the close loop *a*, and is then folded over between and under the extremities *c c* of the tie.

It will now appear that on the release of the bale, the expansive force will instantly draw the fold of the hoop forward in the loop *a* of the tie, against the transverse central bars *ff* thereof, pressing the converging side bars *gg* of the tie outward into parallel or nearly parallel position, while the center bars *ff* also assume positions parallel with each other, imparting an approximately rectangular shape to the respective loops *a* and *b*, drawing the extremities *c c* together over the end of the hoop, and causing the fold of the hoop to rest tightly against the central bars *ff* of the tie. The draft of the hoop itself thus holds the extremities of the tie firmly over the end of the hoop, and effectually prevents its escape.

My improved tie possesses great advantages in its cheapness of construction, and its simplicity and effectiveness in operation. It is made of wire of any suitable size, according to the strain that it is required to bear.

I claim—

A wire bale-tie constructed in approximately the form of a figure 8, with crossed central portions, and ends bent inward, so that they will be drawn over the band by the effect of its own draft or pressure, as explained.

WILLIAM P. ELLIOTT.

Witnesses:

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