

T. R. PORTER.
Bale-Tie.

No. 211,926.

Patented Feb. 4, 1879.

Fig. 2.

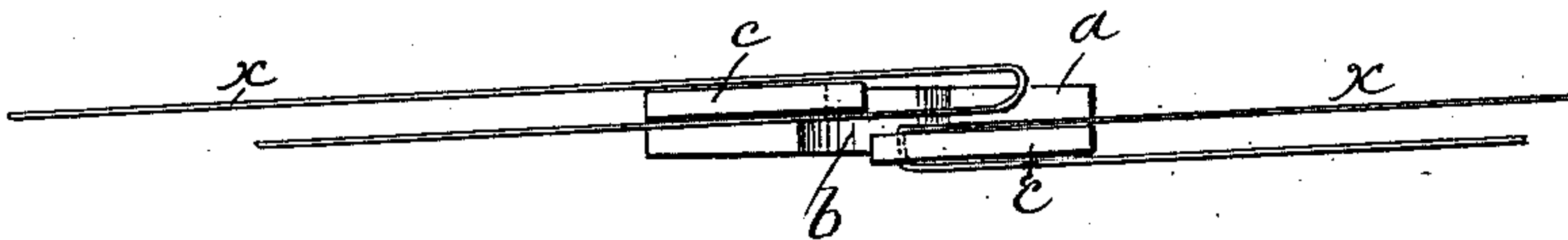
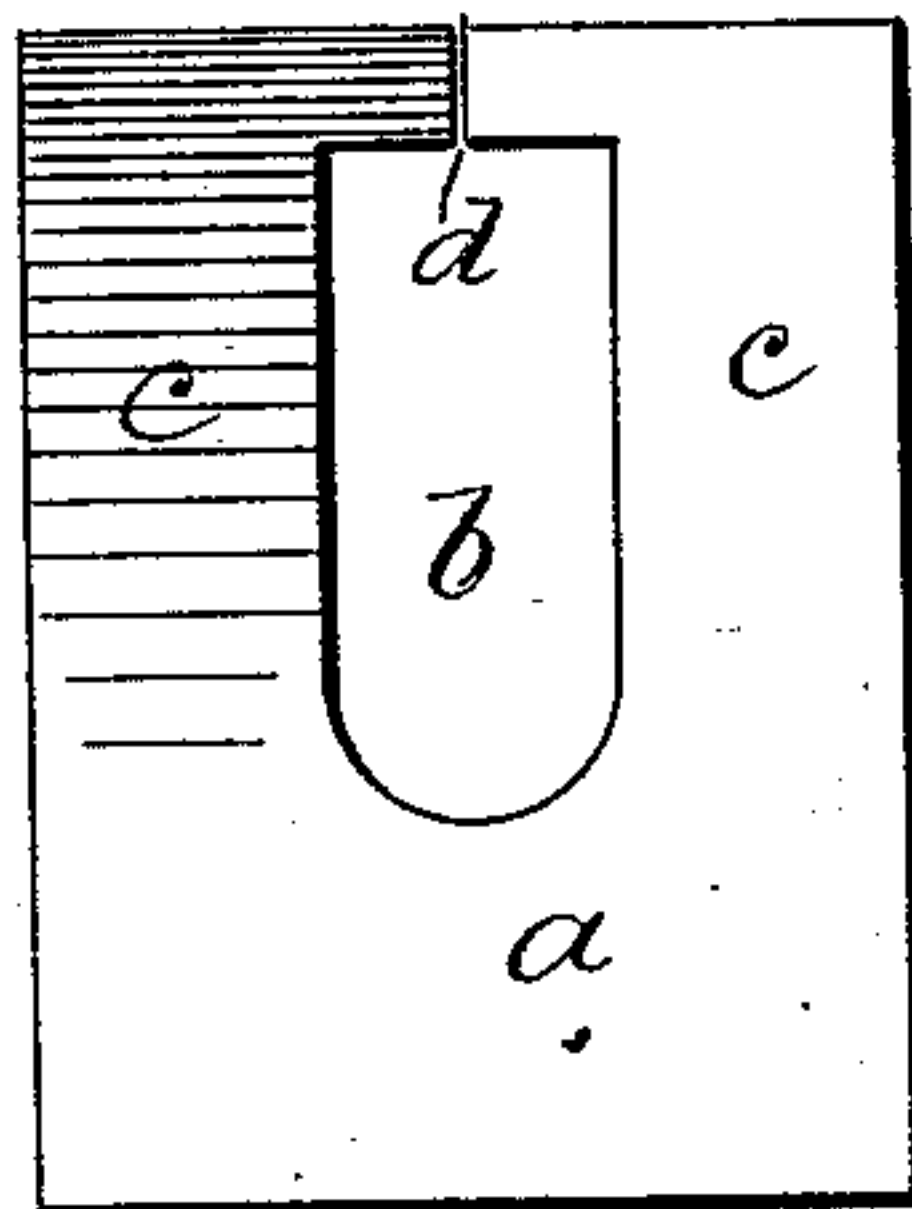


Fig. 1.



Witnesses,
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UNITED STATES PATENT OFFICE.

TIMOTHY R. PORTER, OF SYRACUSE, NEW YORK.

IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. **211,926**, dated February 4, 1879; application filed December 5, 1878.

To all whom it may concern:

Be it known that I, TIMOTHY R. PORTER, of the city of Syracuse, State of New York, have invented an Improvement in Bale-Ties, of which the following is a specification:

My improvement is a modification of other similarly-formed bale-ties, by which I overcome an objectionable feature therein, and render it more efficient and practical.

The distinguishing characteristic between my device and that of McComb is, that in my tie the slit is in line with the sides or bearings for the ends of the band, and that both ends of the band can be inserted within the tie without turning the latter.

The construction is as follows, the general configuration being shown in Figure 1 of the drawings: The tie is formed from an oblong rectangular metal plate, *a*, of suitable thickness, uniform or otherwise, to suit the purpose intended, having an oblong hole, *b*, punched therein, forming arms *c*, divided or separated at the end, at *d*, by a straight single cut, instead of having a piece punched out, leaving a space between them, as in all other similar ties; and instead of having the arms *c* in the same plane as those heretofore made with side opening, one or both of the arms *c* in my tie are bent out of the plane, so as to form a sufficient opening to insert the loop of the bale-band *x* parallel therewith, as clearly seen in Fig. 2.

When one end of the bale-band is looped over one of the arms of the ordinary bale-tie, having the ends of the arms in the same plane, the loop of the other end must be brought with its bight exactly opposite the openings between the arms, or it cannot be made to enter. This is found very difficult in practice; but in my improvement of bending one or both arms out of the plane, as above described, the bight of the loop *x* of the bale-band can pass the opening any distance when uniting them, as clearly illustrated in Fig. 2, and still allow the arm *c* to pass freely through the loop.

The expansion of the bale brings the bight back to its place around the arm *c*, where it is securely held.

Having thus fully described my improved bale-tie, I claim—

The bale-tie constructed, in the manner described, of U form, with an end opening in line with the sides or bearings for the ends of the band, having the open ends turned out of plane with each other, as and for the purposes specified.

T. R. PORTER.

Witnesses:

JAMES S. THORN,
J. J. GREENOUGH.