

P. K. DEDERICK.

Bale-Ties.

No. 135,700.

Patented Feb. 11, 1873.

Fig. 1.

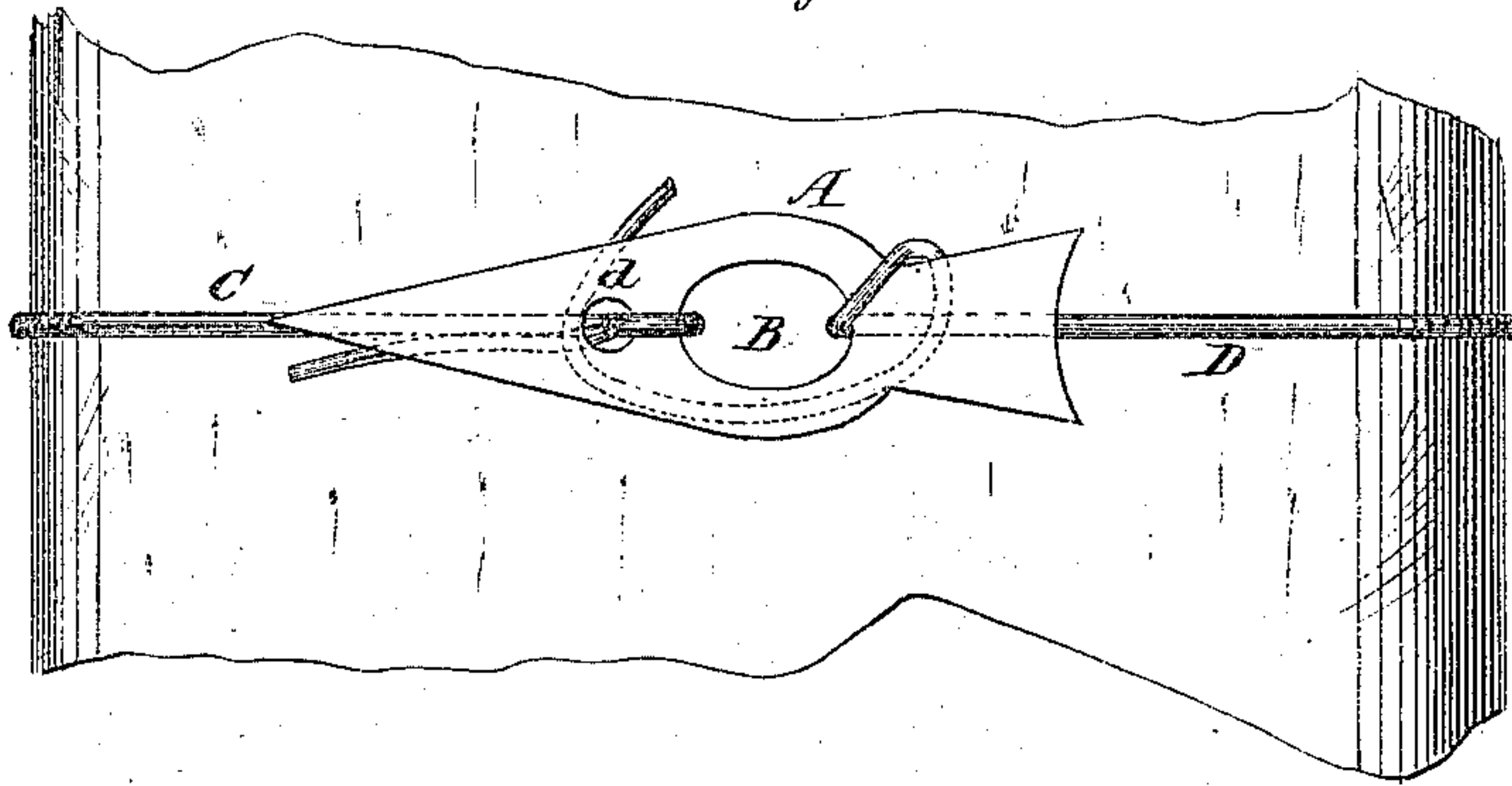


Fig. 2.

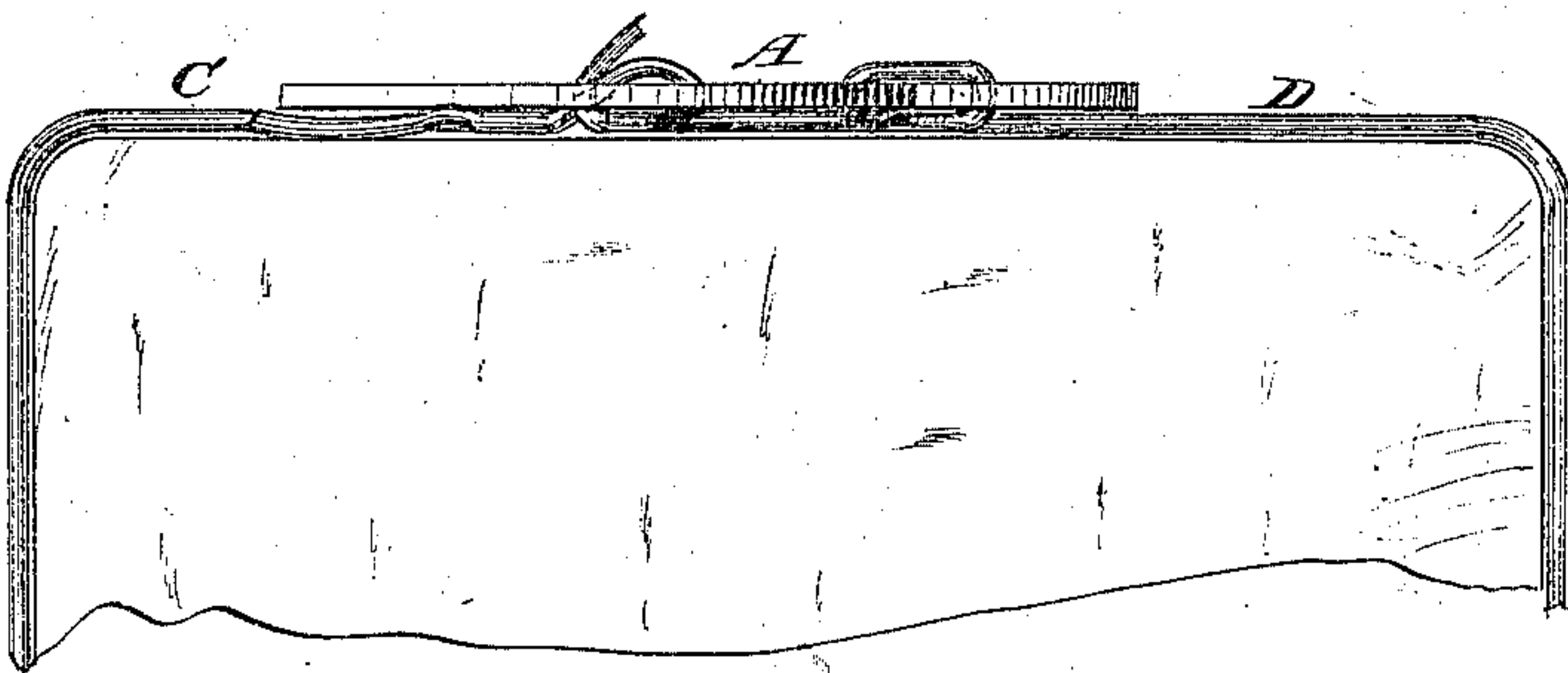


Fig. 3.

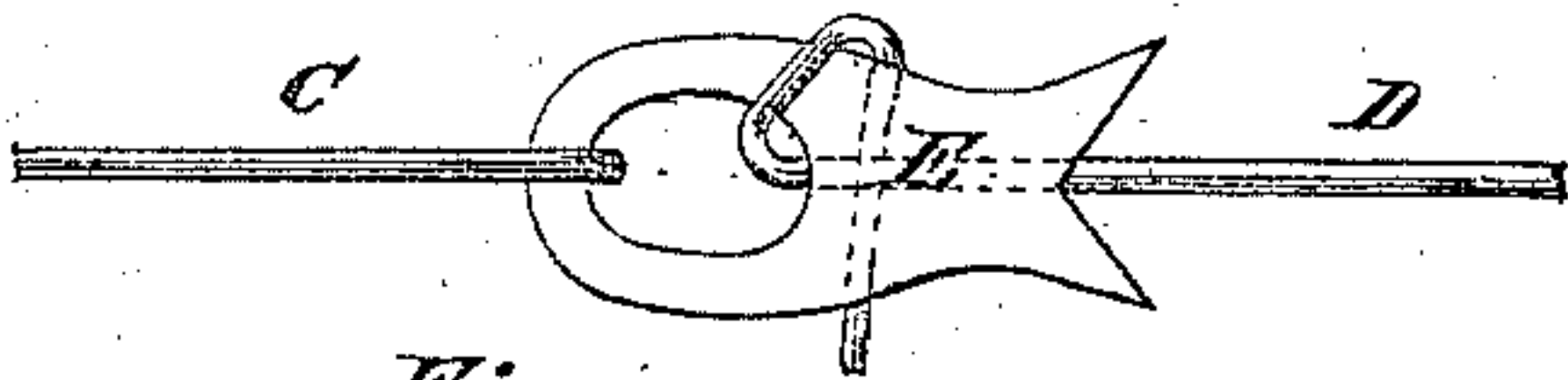
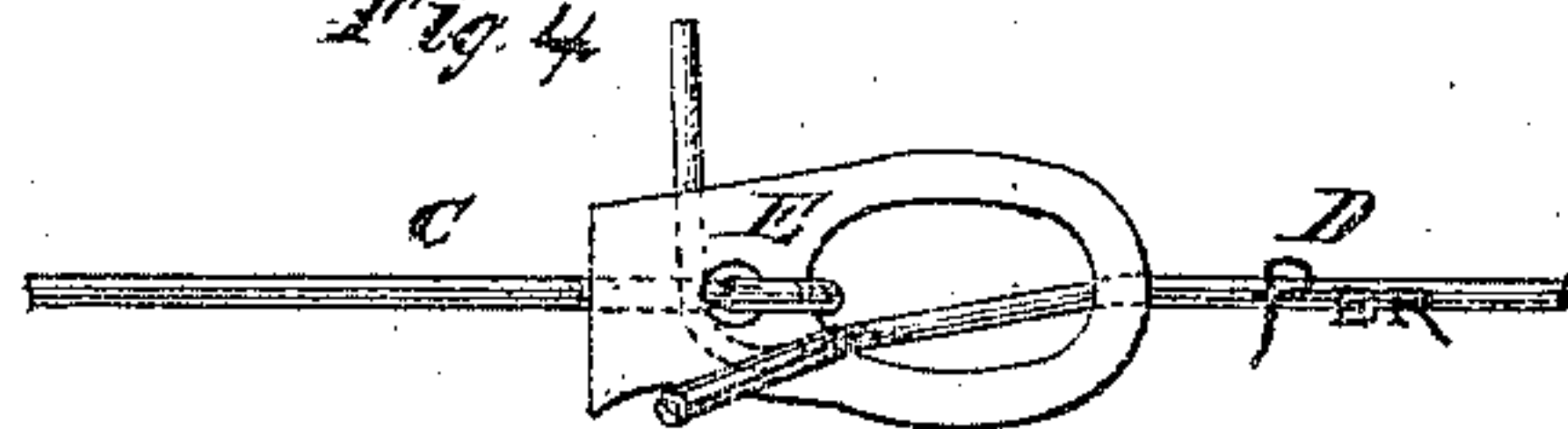


Fig. 4.



Witnesses:

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# UNITED STATES PATENT OFFICE.

PETER K. DEDERICK, OF ALBANY, NEW YORK.

## IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. 135,700, dated February 11, 1873.

*To all whom it may concern:*

Be it known that I, PETER K. DEDERICK, of Albany, in the county of Albany and State of New York, have invented a new and useful Improvement in Bale-Tie, of which the following is a specification:

The essential feature of my invention is a metal tie-piece for the fastening of a wire band, so contrived that the longitudinal strain of the band causes the tie piece or plate to fasten or secure the end of the band to be made fast by binding it between said plate and one or both of the taut portions of the band, the said end being, after passing through or around the tie-plate in some simple manner, drawn under one or more portions of the tie-plate projecting along the taut portions of the band and between the latter and the said tie-plate.

Figure 1 is a plan view of a section of a bale with a tie constructed according to my invention. Fig. 2 is an end elevation of Fig. 1. Figs. 3 and 4 are plan views of different ties constructed according to my invention, with some modifications in the form of the tie-plate.

Similar letters of reference indicate corresponding parts.

A is the tie-plate, of metal, with a large hole, B, and small one *d* in it for the connection of both the ends C D of the band; or the small hole *d* may be omitted; but in either case the said plate will have a projection, E, at one or both ends, along and above or outside of the band, so that the end D, by which the tie is to be completed, after passing through the hole B or being in any other way partly fastened to the plate, may be drawn under one or both of the projections E of the plate between it and the band, as shown at J, so as to be bound and held by the pressure caused by the longitudinal strain on the tie-plate, thus making a strong and substantial tie in a very sim-

ple manner. The end C of the band will, as in other cases, be made fast to the tie-plate previous to applying the band to the bale. Generally it will probably be sufficient to have one projection of the tie along the band, and this preferably along the end D to be made fast, under which it will be drawn or tucked, as represented in Fig. 4, or the extension may be along the part C, as in Fig. 5; but for greater security I will have the tie-plate project at both ends and secure the band under it, as in Figs. 1 and 2.

It will be seen that the drawing or tucking of the band under the said projections, while it is subject to the strain imposed for tightening it, and before the tie is completed, is a very simple matter, as the end only requires to be swung around or over the end of the projection down upon the band, and then pulled forcibly back toward the point of connection with the plate.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A bale-tie, consisting of a metal plate having one point of connection common to both ends of the band, and a projection of one or both ends from the point of connection along and over the taut portions of the band, adapted to secure the end of the band to be tied between said projection and the band, substantially as specified.

2. The mode of securing a wire band to the tie by passing the end of the band to be tied through a hole in the tie-plate or around it, and then between a projection of said plate along the band and the said band, substantially in the manner described.

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Witnesses:

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