

No. 865,559.

PATENTED SEPT. 10, 1907.

W. R. BALL.

TIE.

APPLICATION FILED NOV. 5, 1906.

Fig. 1.

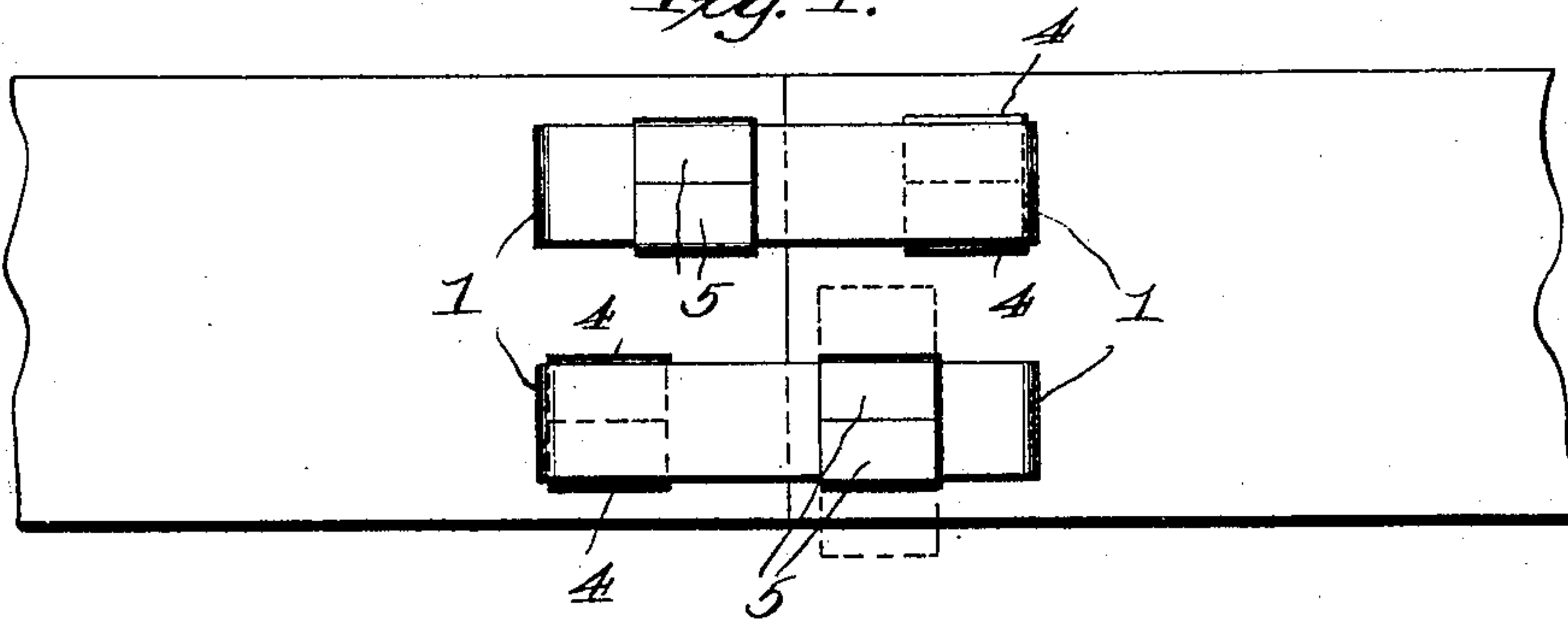


Fig. 2.

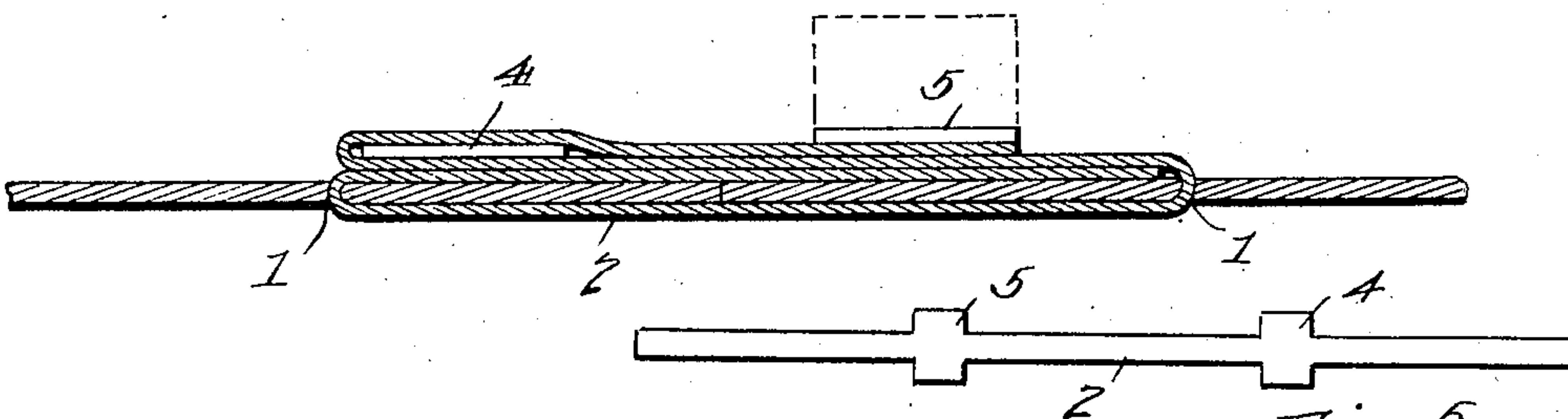


Fig. 3.

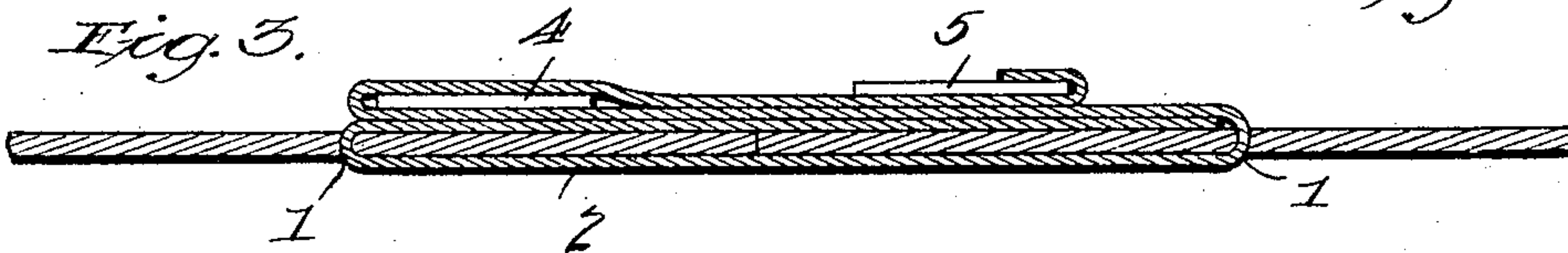


Fig. 4.

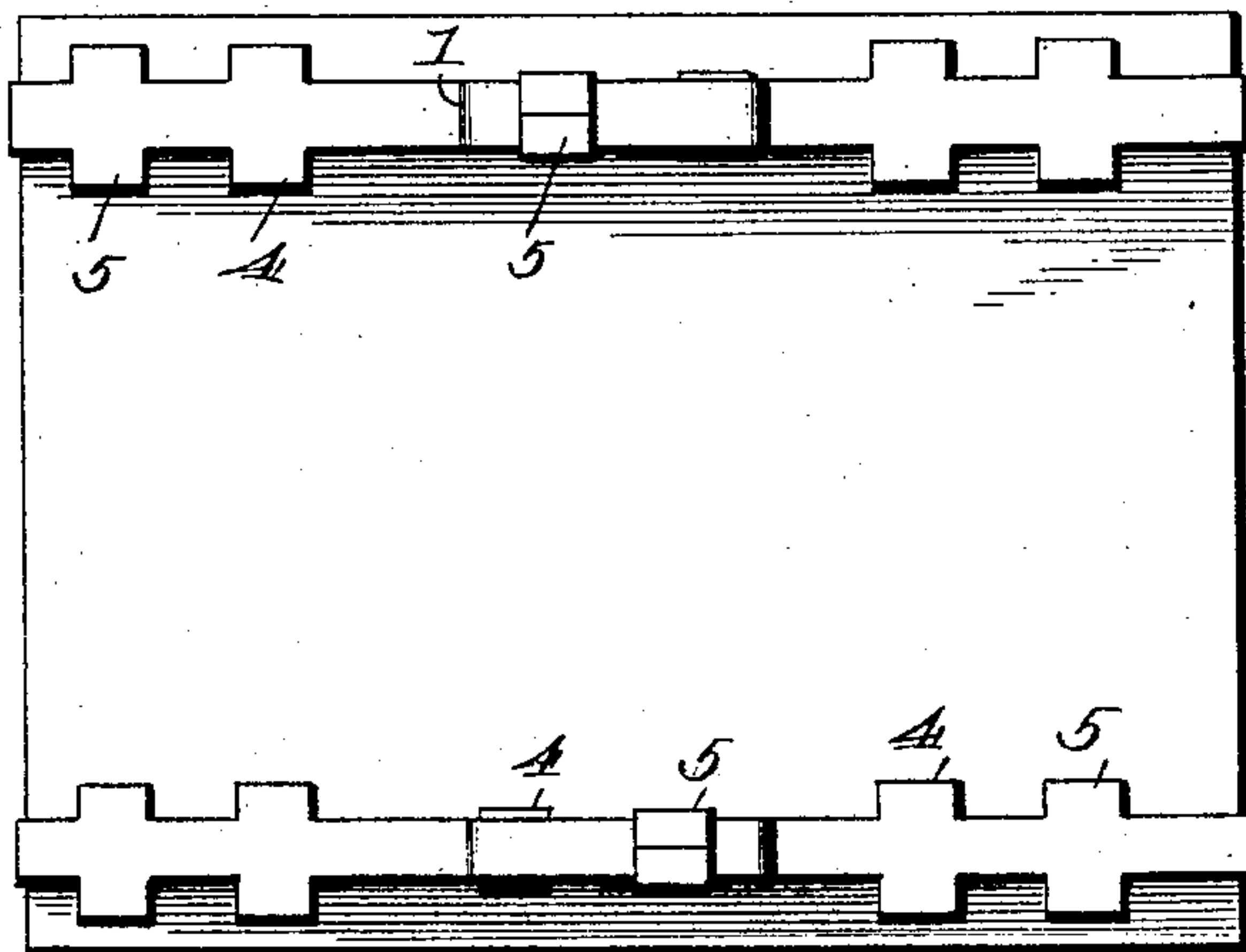


Fig. 5.

Inventor

Witnesses

J. L. Mackay
James F. Brown

W. R. Ball
By *Perford M. Smith*
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM R. BALL, OF RICHMOND, VIRGINIA.

TIE.

No. 865,559.

Specification of Letters Patent.

Patented Sept. 10, 1907.

Application filed November 5, 1906. Serial No. 342,078.

To all whom it may concern:

Be it known that I, WILLIAM R. BALL, a citizen of the United States, residing at Richmond, in the county of Henrice and State of Virginia, have invented a certain new and useful Tie, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to ties or tie straps for securing the ends of driving belts and the like together and for tying and securing boxes and other packages for transportation.

The object of the invention is to provide a metallic tie strap which may be readily inserted through slits in the extremities of a driving belt or passed around an ordinary box or package, the said tie having novel means whereby the ends thereof may be quickly fastened together and drawn tight, said fastening means being so arranged that both extremities of the tie may be concealed and covered, leaving no projecting edges to catch the hands or clothing or other contiguous objects.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination and arrangement of parts herein fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a plan view of the end portions of a driving belt, showing the same connected by means of a pair of the ties of this invention. Fig. 2 is an enlarged longitudinal section through the same, showing by dotted lines the manner of bending in the tabs or wings. Fig. 3 is a similar view showing how one end of the tie may be bent outward over and upon the intumed tabs or wings. Fig. 4 is a plan view showing a pair of ties applied to a box, the ties therein shown being especially adapted for use upon boxes, packages and the like. Fig. 5 is a plan view of one of the blanks before being bent up.

The tie consists of a strip of metal of any suitable gage and width and any desired or required length, and when designed for use as a connection for the ends of a belt, the greater part of the strip is left plain or without the tabs or wings hereinafter more particularly described. The ends of the belt are apertured or provided with slits 1, and the body 2 of the strip is inserted through said slits as shown in Figs. 2 and 3 and overlapped on one side of the belt, preferably the outer side, or that side which does not come in contact with the wheels around which the belt passes.

At a suitable distance from the end of the tie, the latter is provided with oppositely projecting tabs or wings 4 formed integrally with the body of the strip, and said tabs are bent inward and downward upon the overlapped portions of the tie, as shown, after which the tie is drawn taut and the outer end portion thereof

then bent outward and over upon the inbent tabs, as clearly shown in Figs. 2 and 3, said end portion being then carried along the outer ply of the overlapped parts of the strip.

Another set of oppositely arranged tabs 5, located nearer the extremity of the tie are then bent inward over the end of the tie, as shown in Fig. 2, so as to hold said end down and also cover and conceal the outer extremity of the tie, thus doing away with any projecting edge which might catch in adjacent objects. In order, however, to make the fastening extra secure, the outer end of the tie may be made somewhat longer as shown in Fig. 3, so as to project beyond the end tabs 5, in which case the extreme end portion of the tie may be bent outward over and down upon the inbent terminal tabs 5, thus giving a double hook or grip where extra strength is required.

In the manufacture of the tie for boxes and other packages, extra long strips will be made, and said strips will be provided at frequent intervals with two sets of oppositely projecting tabs 4 and 5, as shown in Fig. 4. Such strips may be cut in two at the point necessary to provide the requisite length of tie, and the ties may then be passed around the box as shown in Fig. 4, the ends of the ties being overlapped and secured together by means of the tabs or wings 4 and 5, in the same manner as above described in connection with the belt ends.

It will be apparent that the tie may be put to a number of uses similar to those above referred to; further that the proportions of the tie and the frequency of the sets of tabs or wings may be varied to suit requirements. The tie may also be removed with ease and used repeatedly without impairing its utility.

Instead of cutting off the strips to the proper length before passing the same around a box or package, the strips may be placed around such box or package, drawn tight and fastened, and then cut off, such method permitting the strip to be handled with greater facility and drawn round the box or package more tightly.

I claim—

A tie for the purpose specified consisting of a metal strip of uniform width and suitable length provided at intervals in the length thereof with a plurality of sets of oppositely arranged tabs, each set comprising two pairs of tabs arranged at a distance apart and adapted to be folded inward to engage one end portion of the body of the strip and fasten the two ends of the strip together when overlapped and bent, substantially as described.

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

WILLIAM R. BALL.

Witnesses:

WM. C. PEARCE,

WM. T. BASSETT.