

No. 735,232

PATENTED AUG. 4, 1903.

M. S. FIELD.
REVERSIBLE PACKAGE TIE.
APPLICATION FILED SEPT. 22, 1902.

NO MODEL.

Fig. 1.

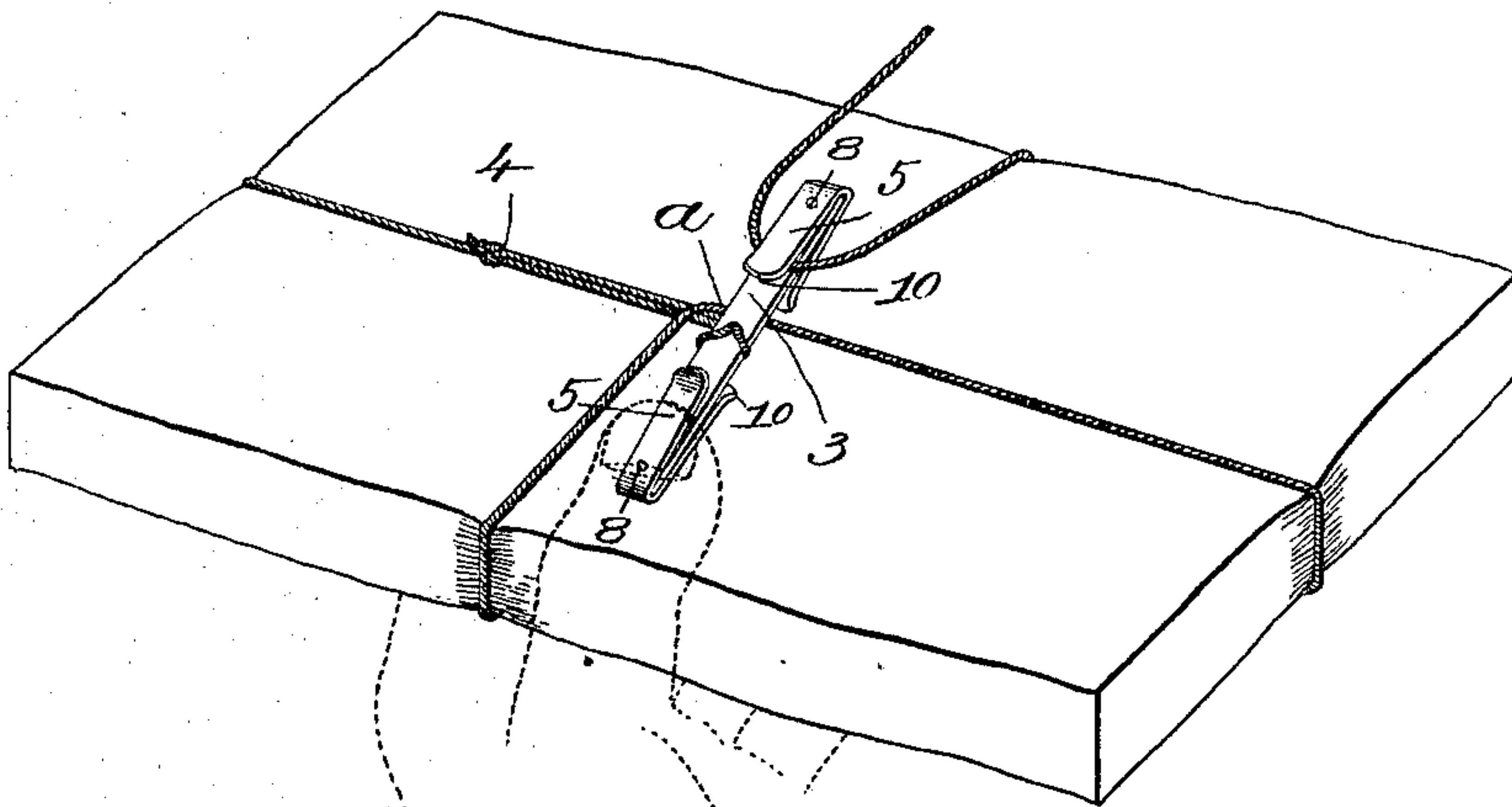


Fig. 4.

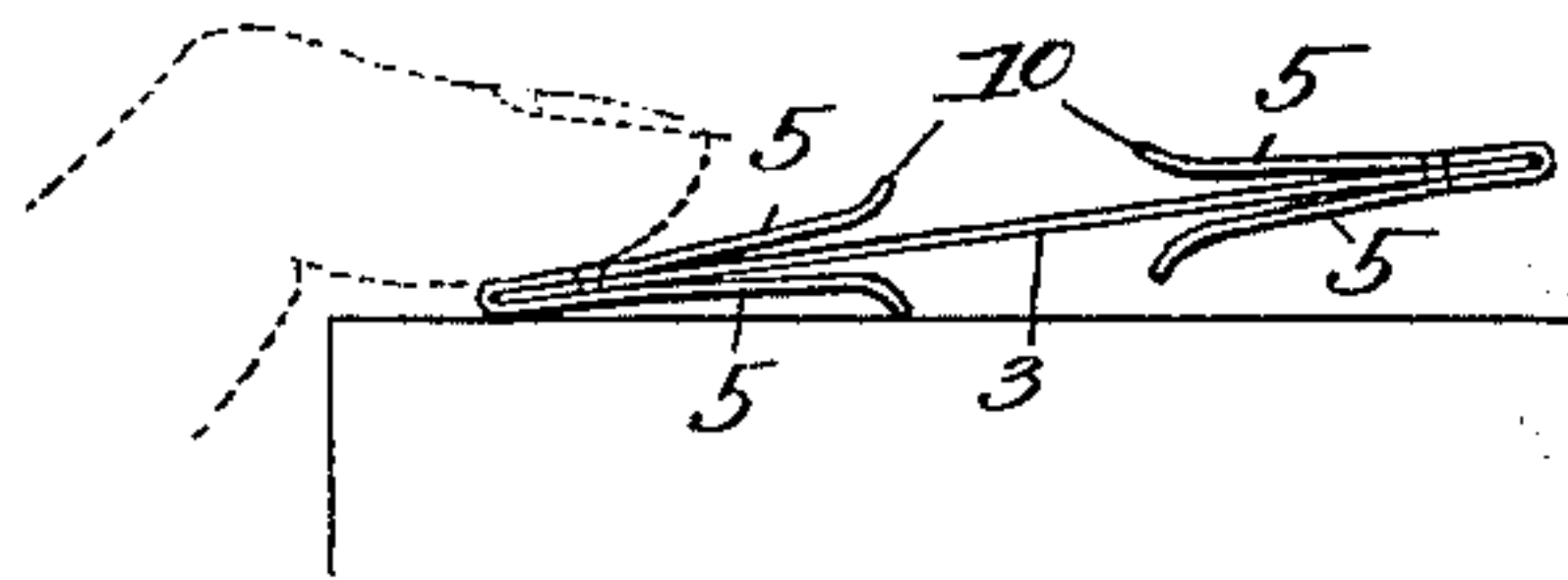


Fig. 2.

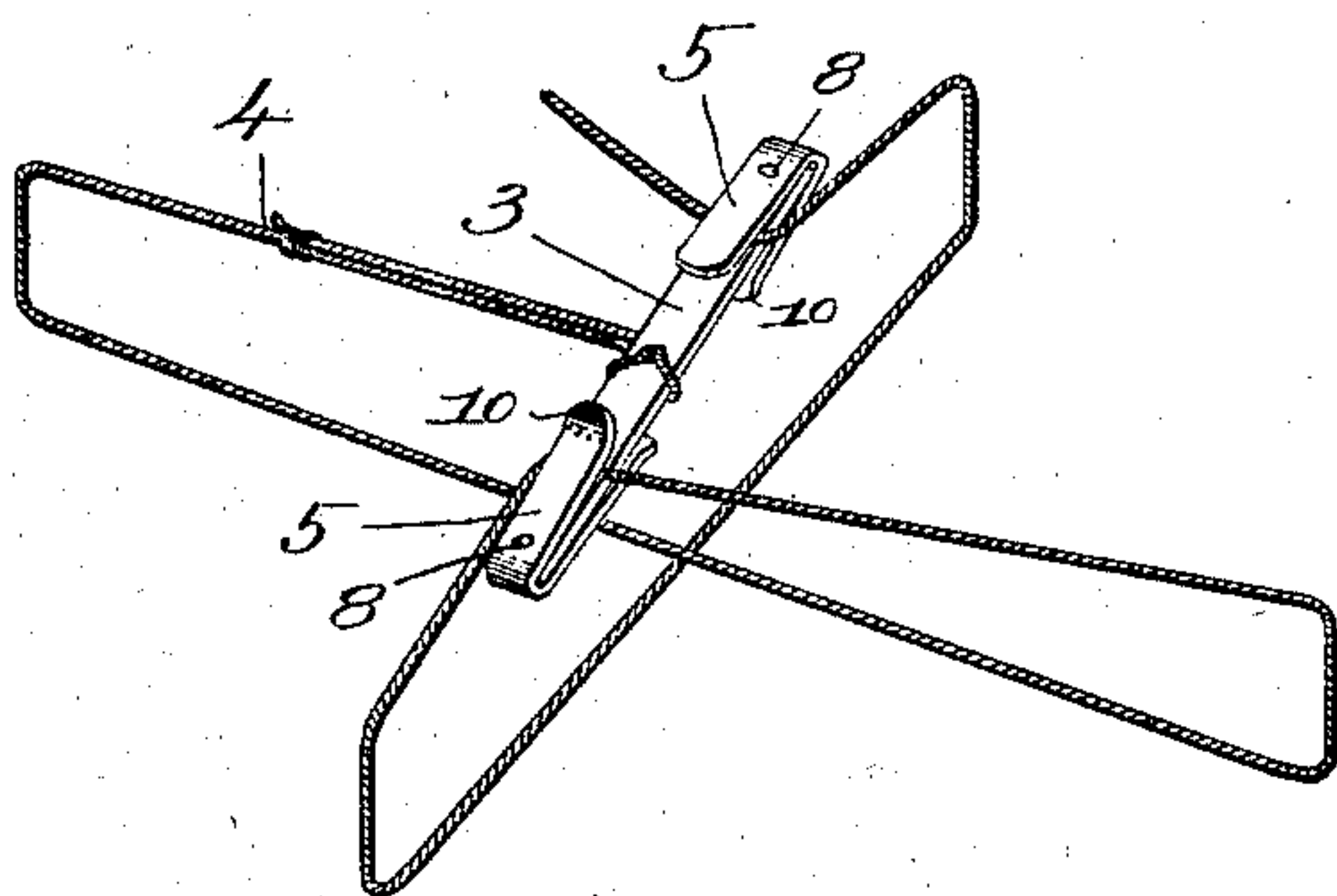


Fig. 3.

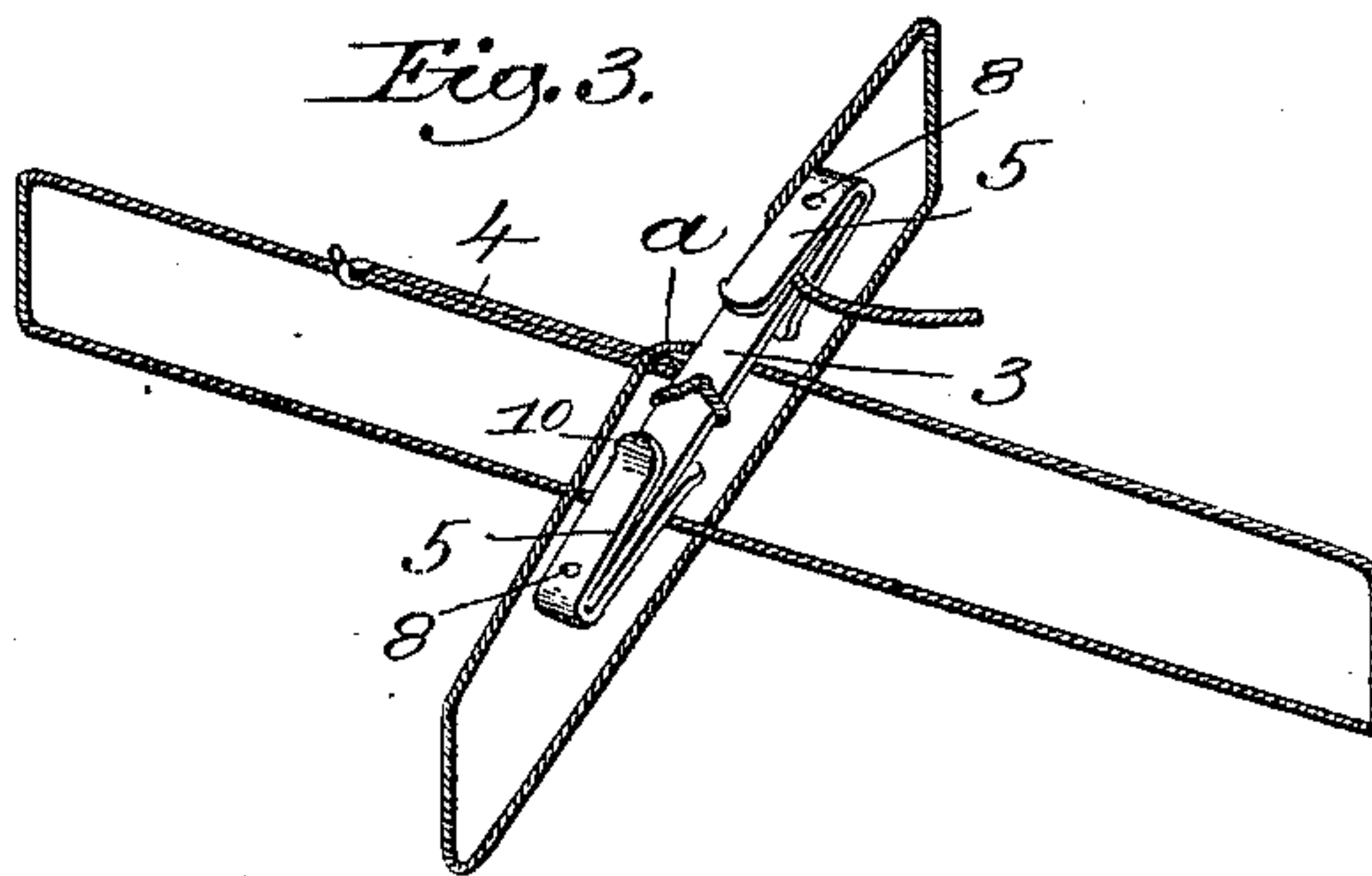


Fig. 5.

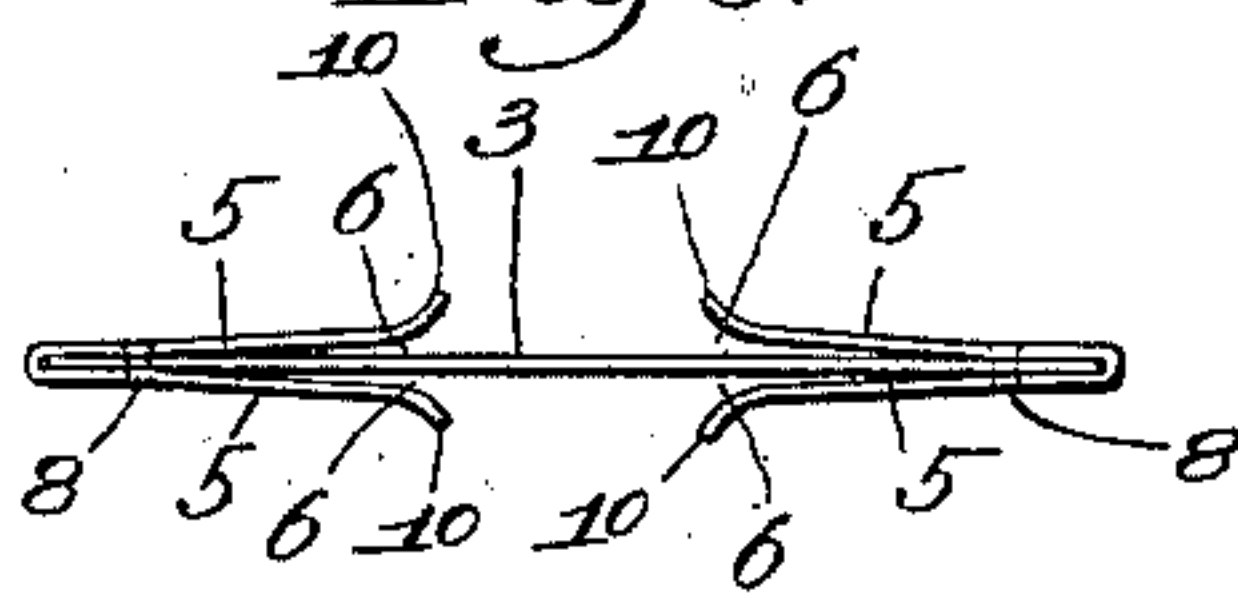
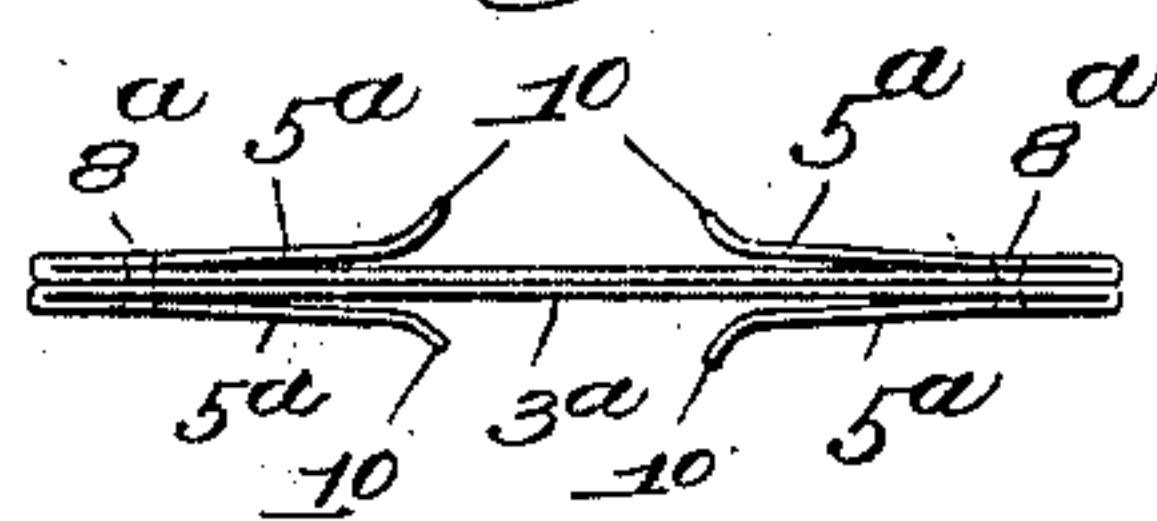


Fig. 6.



Witnesses:
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UNITED STATES PATENT OFFICE.

MARCELLUS S. FIELD, OF BOSTON, MASSACHUSETTS.

REVERSIBLE PACKAGE-TIE.

SPECIFICATION forming part of Letters Patent No. 735,232, dated August 4, 1903.

Application filed September 22, 1902. Serial No. 124,355. (No model.)

To all whom it may concern:

Be it known that I, MARCELLUS S. FIELD, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Reversible Package-Ties, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention relates to package-ties which are adapted for use in tying up packages of letters, circulars, documents, papers, &c., and has for its object to provide a simple and efficient tie which can be used in any position in which it may be placed upon a package to be tied, thus forming a universal reversible tie.

In all forms of package-ties with which I am acquainted it is necessary to place the tie upon the package in a certain predetermined position with relation to the hand of the person holding the package before the tying operation can be performed, as otherwise it is impossible to properly secure the tie, and when the person using the tie is not accustomed to handling the ties several trials frequently have to be made before the tie is properly placed upon the package for tying. The necessity of placing the tie in a predetermined position is also a disadvantage when circumstances under which the ties are used necessitate the rapid tying and untying of them—as, for instance, in post-office work, where the ties are used for tying up packages of letters or circulars—because until a person gets thoroughly adept in the use of the tie the picking out of a single tie from a quantity and placing the same upon the package in the correct position for tying sometimes absorbs considerable time. It is to overcome these disadvantages and to provide a simple form of tie which is both universal and reversible and which can be used in almost any position in which it is placed upon the package that I have made the present invention.

My improved package-tie comprises, broadly, a body portion to which the usual tying tape or cord is secured, which cord is passed around the package to be tied, the said body

portion having at each end a cord-clamp, which cord-clamp will be in the correct position for tying without reference to which end of the body portion is placed toward or under the thumb of the operator.

In order to make the package-tie entirely reversible and universal in its application, I will preferably employ two cord-clamps at each end of the body portion, the cord-clamps of each pair being on opposite sides of the body portion. With this form it makes no difference which side of the tie is placed next to the package nor which end of the tie is positioned toward the operator, for in whatever position the tie is placed a cord-clamp will be in the correct position for tying.

My improved tie also includes a construction whereby when the operator places his thumb upon one end of the tie to hold it while the package is being wrapped with the tape or cord the other end of the tie is raised from the package to admit of the cord being slipped under in the process of wrapping the same.

In the drawings, Figure 1 is a perspective view showing a package tied with my improved tie. Figs. 2 and 3 are perspective views showing different ways in which the tie may be used. Fig. 4 is an end view of a package with the tie thereon, showing the fulcruming action of the tie. Fig. 5 is a side view of one form of tie, and Fig. 6 is a similar view of a slightly-different form of tie.

The tie comprises the body portion 3, which may be made of any suitable material, but is herein shown as being made of a piece of metal tape or a flat strip of metal, to which the cord or tape 4, which wraps around the package, is secured in any suitable way. Each end of the body portion has some suitable form of cord-clamp secured thereto, and while any suitable form of cord-clamp may be used I prefer to employ that herein illustrated, which consists of a piece or strip of spring metal 5, rigidly secured at its outer end to the body portion 3 and forming, with the body portion, a V-shaped slit 6, into which the cord or tape may be crowded, the said spring-metal strip 5 gripping the cord with sufficient force to hold it from slipping.

In order to make the device completely re-

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versible, I provide a cord-clamp 5 on each side of each end thereof, as shown in Fig. 5, whereby four cord-clamps are provided.

In Figs. 1 to 5 the two cord-clamps on each end of the body portion are made from a single piece of spring metal which is bent around the end of the body portion 3 and is riveted thereto, as at 8.

In Fig. 6 I have shown a slightly-different form of construction, wherein the body portion 3^a comprises two members, each of which is bent back upon itself at its end to form the cord-clamp 5^a, the two members being secured together in any suitable way, preferably by riveting through the ends thereof, as at 8^a.

The ends of the cord-clamps 5 are bent outwardly, as at 10, in order to provide a cord-guide to direct the cord into the slits 6. These portions 10 also serve as fulcrums for the tie, as will be presently described.

In using the tie it is placed upon the package as shown in Fig. 1, and the thumb of the operator is placed on one end thereof. Since each end of the tie has a cord-clamp on each side thereof, it makes no difference how the tie is placed upon the package, so long as it is placed in position to be held by the thumb, as shown in Fig. 1, for whichever side of the tie is uppermost or whichever end of the tie is under the thumb a cord-clamp is presented at the other end thereof in position to receive the end of the cord. After placing the tie upon the package, the cord 4 is wrapped around the package, as usual with this class of devices, and the end thereof pulled into the cord-clamp on the free end of the tie. The end of the cord may either be pulled into the cord-clamp toward the right, as shown in Fig. 3, or toward the left, as shown in Fig. 1, as the operator finds most convenient.

The preferred way of tying is that shown in Figs. 1 and 3, wherein the cord after having been passed around the package in one direction is slipped under the free end of the tie, as shown at *a*, and then wrapped around the package in the other direction.

Referring to Fig. 4, it will be observed that the pressure of the thumb upon one end of the tie rocks the tie about the fulcrum-point 10 and raises the free end thereof from the package, so as to allow the cord to be freely passed under the tie, as shown at *a* in Figs. 1 and 3.

Owing to the peculiar construction of tie, one of the fulcrum-points 10 will be in position to act as such in whatever position the tie may be placed upon the package. The tie also admits of use as shown in Fig. 2, wherein the tape or cord 4 after having been wrapped around the package once is slipped into the cord-clamp adjacent the thumb of the operator instead of being passed under the cord-clamp, as at *a* in Figs. 1 and 3.

While I have herein shown one way in which a package-tie may be constructed I do not wish to be limited in all respects to the details of the structure shown, as it will be obvious

that the principle of the invention as expressed in the appended claims may be embodied in other forms of package-ties than those herein illustrated.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A package-tie comprising a body portion having a cord-clamp on both its top and its bottom side, each cord-clamp comprising a piece of resilient metal secured to the end of the body portion and extending toward the central portion thereof whereby the device may be used either side up.

2. A package-tie comprising a body portion and two cord-clamps at each end thereof, the clamps at each end being situated on the top and bottom of the body portion respectively.

3. A package-tie comprising a body portion, and two cord-clamps at each end thereof, the clamps at each end being situated on the top and bottom of the body portion respectively, and each comprising a piece of resilient metal secured to the end of the body portion and extending toward the central part thereof.

4. A package-tie comprising a flat body portion having a pair of cord-clamps at each end thereof, the cord-clamps of each pair being situated on the opposite flat faces of the body whereby the tie may be used in any position in which it is placed on the package.

5. A package-tie comprising a body portion having a cord-clamp at one end, and means secured to the other end thereof and acting as a fulcrum for the tie, whereby the pressure of the thumb of the operator on one end of the tie rocks the latter about its fulcrum and raises the other end thereof from the surface of the package being tied, to permit the cord or tape to be freely passed thereon.

6. A package-tie comprising a body portion, a cord-clamp at one end thereof, said clamp constructed to receive the cord from either direction, and a fulcruming projection extending from the body and adapted to rest upon the package being tied, whereby the pressure of the thumb of the operator on one end of the body rocks the latter about the fulcruming projection and raises the end having the cord-clamp from the package.

7. A package-tie comprising a body portion, a cord-clamp at each end thereof, each clamp having a projecting portion intermediate the ends of the body and adapted to engage the package being tied, whereby when the operator places his thumb on one end of the tie the latter rocks about one of said projecting portions and the opposite end of the tie is raised from the package.

8. A tie comprising a body portion, a cord-clamp at each end of the body portion on each side thereof, each clamp having a projecting portion intermediate the ends of the body and adapted to engage the package being tied to raise the body of the tie slightly from the package.

9. A package-tie comprising a flat strip

forming a body portion, and a cord-clamp at each end thereof, said cord-clamps each comprising a strip of spring metal secured to the body portion and having an outwardly-bent part to form a fulcruming projection.

10. A package-tie comprising a flat strip of metal forming a body portion, and a cord-clamp on each end of said body portion at each side thereof, each of said cord-clamps comprising a strip of spring metal secured to the body portion and having its end bent outwardly.

11. A package-tie comprising a flat strip of

metal forming a body portion, and a cord-clamp on each side of said body portion at each end thereof, said cord-clamps each comprising a strip of spring metal secured to the body portion and forming therewith a cord-receiving slit.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MARCELLUS S. FIELD.

Witnesses:

LOUIS C. SMITH,
GEO. W. GREGORY.