

J. S. ALLEN.
 PACKAGE TIE.
 APPLICATION FILED NOV. 24, 1909.

Patented Apr. 14, 1914.

1,093,096.

Fig. 1.

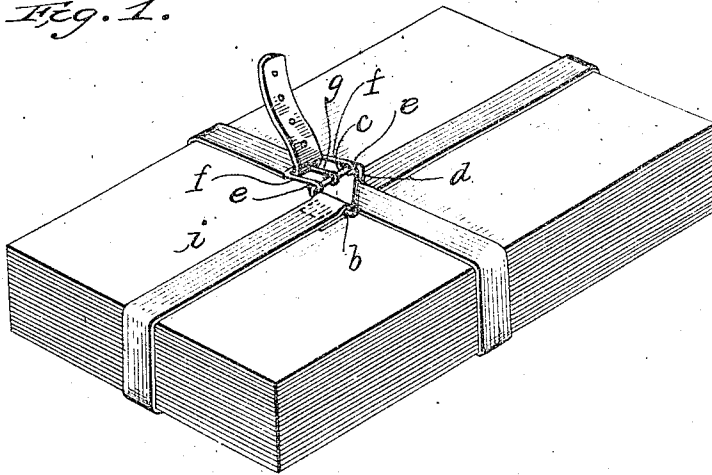


Fig. 2.

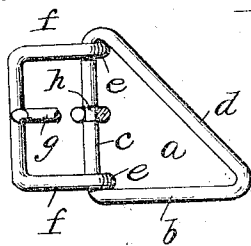
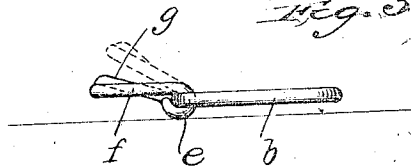


Fig. 3.



Witnesses

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PACKAGE-TIE.

1,093,096.

Specification of Letters Patent.

Patented Apr. 14, 1914.

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To all whom it may concern:

Be it known that I, JOHN S. ALLEN, a citizen of the United States, and a resident of Columbus, in the county of Muscogee, State of Georgia, have invented certain new and useful Improvements in Package-Ties, of which the following is a full and clear specification, reference being had to the accompanying drawings, in which—

10 Figure 1 is a perspective view showing my device applied to fasten together a packet of letters or papers; Fig. 2 a detail plan view of the metal portion of the device, a portion of the tongue of the buckle being shown in section; and Fig. 3 an edge elevation of the device shown in Fig. 2.

The object of this invention is to provide a simple and inexpensive and durable device for temporarily tying up papers and letters in packets, the invention consisting of certain novel features of construction hereinafter described and pointed out in the claim appended.

In the drawing, *a* designates an open wire frame or loop approximately triangular in shape, consisting of a straight bar *b*, a straight bar *c* at right angles to the bar *b*, and a straight bar *d* connecting the ends of said bars *b* and *c* and lying at an angle of 45° thereto.

Pivotaly attached to the bar *c*, by means of eyes *e* are the side bars *f* of a U-shaped buckle frame, said eyes *e* being disposed at the respective ends of said bar *c*, so that said buckle frame shall be capable of swinging on said bar *c* and will be prevented from having a sliding action on said bar *c* by the adjacent ends of bars *b* and *d*. Also pivotaly mounted on said bars *c* is a buckle tongue *g* whose eye portion rests in a groove or notch *h* in said bar *c*, midway its ends, whereby the tongue is free to swing on said bar *c* and yet is prevented from having a sliding action along the same.

45 The strap *i* is attached to the bar *b*, and when the device is applied to a packet, the strap is passed around the same in one direction, then through the loop *a*, and then around the packet in the other direction, its free end being passed up through the buckle

and drawn taut and locked by the buckle tongue, said free end of the strap being provided with a series of eyeleted holes to receive the tongue without tearing or cutting the strap. It will be observed that on making the second turn around the packet at right angles to the first turn, the strap is drawn against the oblique bar *d*, and as this bar is straight at an angle of 45° to the other bars it will be seen that the pull on the wire loop *a* is directly away from the buckle and that distortion and unequal strain on the strap where it makes the said reverse turn on the angle bar are entirely avoided. It will be observed also that by mounting the buckle directly on one of the bars of the loop, that bar of the loop is utilized to form a part of the buckle frame, and it will be further noted that by employing a pivoted buckle frame the buckle may be freely swung up and down independently of the loop after the strap is drawn taut around the bundle and thus greatly facilitate the inserting and tightening of the free end of the strap.

In applying the device to a package, the metal member is placed centrally of the package, and held firmly in that position by pressing upon the triangular loop *a*, leaving the buckle portion free; the strap *i* is then passed around the package, its loose end passed under and through the buckle loop, and the tongue made to engage one of the eyelets.

By forming the metal member with two parts hinged together, it can be readily seen that the loose end of the strap *i* can be passed under and through the buckle loop without releasing hold of the other member, thereby facilitating quick and accurate application of the device.

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

A package tie, comprising a right-angle triangle wire frame, a strap secured to one of the right-angle sides of said frame and adapted to be guided around a package in alinement with the other right-angle side by the hypotenuse side, a U-shaped wire frame

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having its terminals pivoted on said second mentioned right-angle side and a tongue pivoted to the same side as the terminals, said tongue and U-shaped frame adapted to
5 cooperate to retain the free end of said strap in position.

In testimony whereof I hereunto affix my

signature in the presence of two witnesses
this 19 day of Nov., 1909.

JOHN S. ALLEN.

Witnesses:

WM. E. JAMES,

D. B. WHITAKER.