F. B. HINE.

STRING FASTENER.

APPLICATION FILED SEPT. 2, 1914.

1,192,896. Patented Aug. 1, 1916.

Fig. 1.

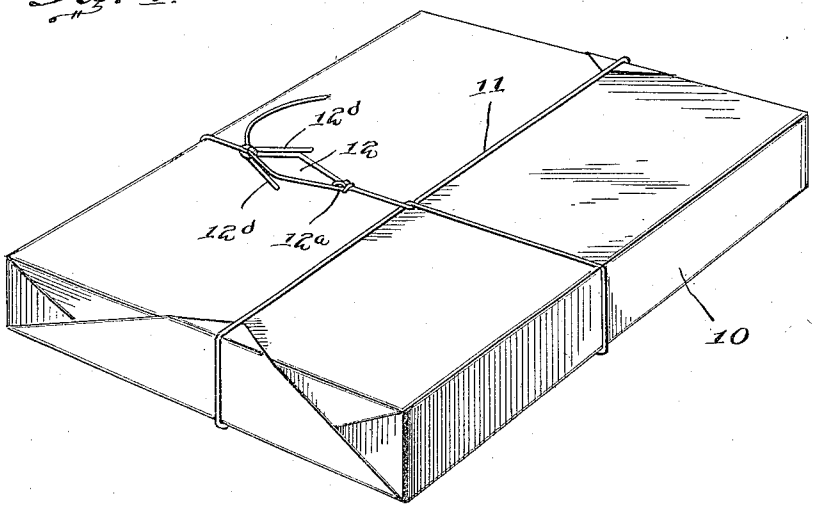


Fig. 2.

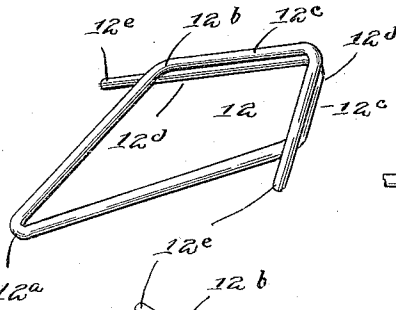


Fig. 4.

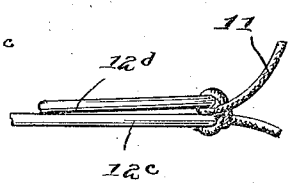
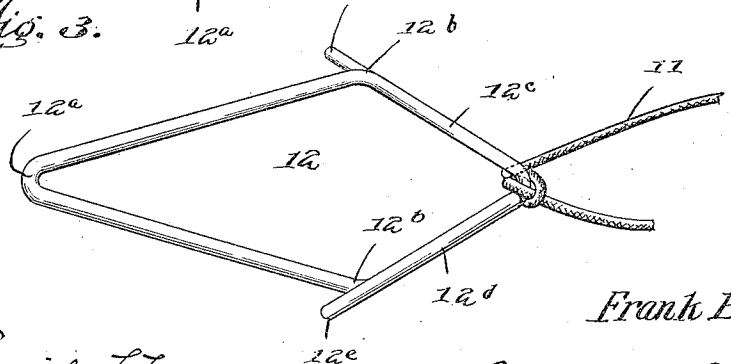


Fig. 3.



Witnesses

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STRING-FASTENER.

1,192,896. Specification of Letters Patent. Patented Aug. 1, 1916.

Application filed September 2, 1914. Serial No. 859,835.

To all whom it may concern:

Be it known that I, FRANK B. HINE, a citizen of the United States, residing at El Paso, in the county of El Paso and State of Texas, have invented new and useful Improvements in String-Fasteners, of which the following is a specification.

An object of the invention is to provide a string fastener of a simple construction which can be cheaply manufactured for securely fastening a string after the same has been arranged around a package or the like.

The invention contemplates, among other features, the provision of a fastener which is adapted to have one end of the string attached thereto, after which the string is passed around the package and the free end of the string then secured to the fastener so as to prevent the string from slipping or becoming untied from the package.

The invention still further embodies the provision of a string fastener formed of a single piece of wire-like material and which can therefore be cheaply manufactured.

In the further disclosure of the invention reference is to be had to the accompanying drawings, constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which:

Figure 1 is a fragmentary perspective view of a package tied with a string, showing my fastener applied to the string; Fig. 2 is an enlarged perspective view of the fastener; Fig. 3 is an enlarged plan view of the fastener, showing the method of securing the free end of the string thereto. Fig. 4 is a fragmentary side elevation of the fastener.

Referring more particularly to the views, I disclose a package 10 adapted to be secured by a suitable string 11 having its ends held securely by a fastener 12. The fastener consists, more particularly, of a single piece of wire-like material bent at its medial portion to form a loop 12^a, with the sides of the loop diverging to points 12^b, after which the ends of the piece of material are bent to form converging sides 12^c and again bent to form diverging sides 12^d terminating in ends 12^e projecting beyond the diverging sides forming the loop 12^a. It will be noted that the sides 12^d lie in the plane of the converging sides 12^c and engage the same and that the ends 12^e project in opposite directions.

The spring 11 is first suitably looped or otherwise secured around the loop 12^a of the fastener at the bend at one end thereof after which the string is passed around the package to secure the same. The free end of the string is now passed between the sides 12^d and 12^c, at one side of the loop 12^a and is pulled upwardly until it reaches the bends at the end of the loop distant from the end to which the string is fastened. The string is now twisted and passed between the other sides 12^c and 12^d of the loop 12^a and pulled upwardly to the bends at the above mentioned end of the loop 12^a. It will now be seen that a portion of the string passes around the said bends of the sides 12^c and 12^d and is thus secured and prevented from slipping. Therefore, with the fastener described it will be apparent that the free end of the string will be securely held in position to secure the package, and although the same will not normally slip, the string can be readily disengaged from the fastener by simply reversing the steps mentioned above and which involve the application of the free end of the string to the fastener.

It will be seen by referring to the views that the fastener is substantially diamond-shaped and is so formed by the diverging sides first mentioned and the converging sides 12^c, with the ends 12^e lying along the converging sides 12^c and engaging the same and having their extremities projecting beyond the points of formation of the converging sides relatively to the diverging sides of the fastener in such a manner as to co-act with the divergent sides to guide a string into a position to be passed between the contacting sides 12^c and 12^d. As stated heretofore, the fastener is preferably made of a single piece of wire-like material and for this reason can be cheaply constructed and easily manufactured in large quantities.

Having thus described my invention, I claim:

A string fastener comprising a strip of material having a portion between its ends

bent to provide a substantially diamond-shaped loop having two of its sides in contact with the remaining portions of the strip of material which overhangs said sides between the ends of the loop and co-acts with the remaining sides of the loop to guide a string into position to be passed between the sides of the loop in contact with the last mentioned portions of the strip of material.

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

FRANK B. HINE.

Witnesses:
R. M. REED,
H. R. GAMBLE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."