W. D. SMITH.

PACKAGE TIE.

APPLICATION FILED JUNE 23, 1908.

981,890. Patented Jan. 17, 1911.

Fig. 1.

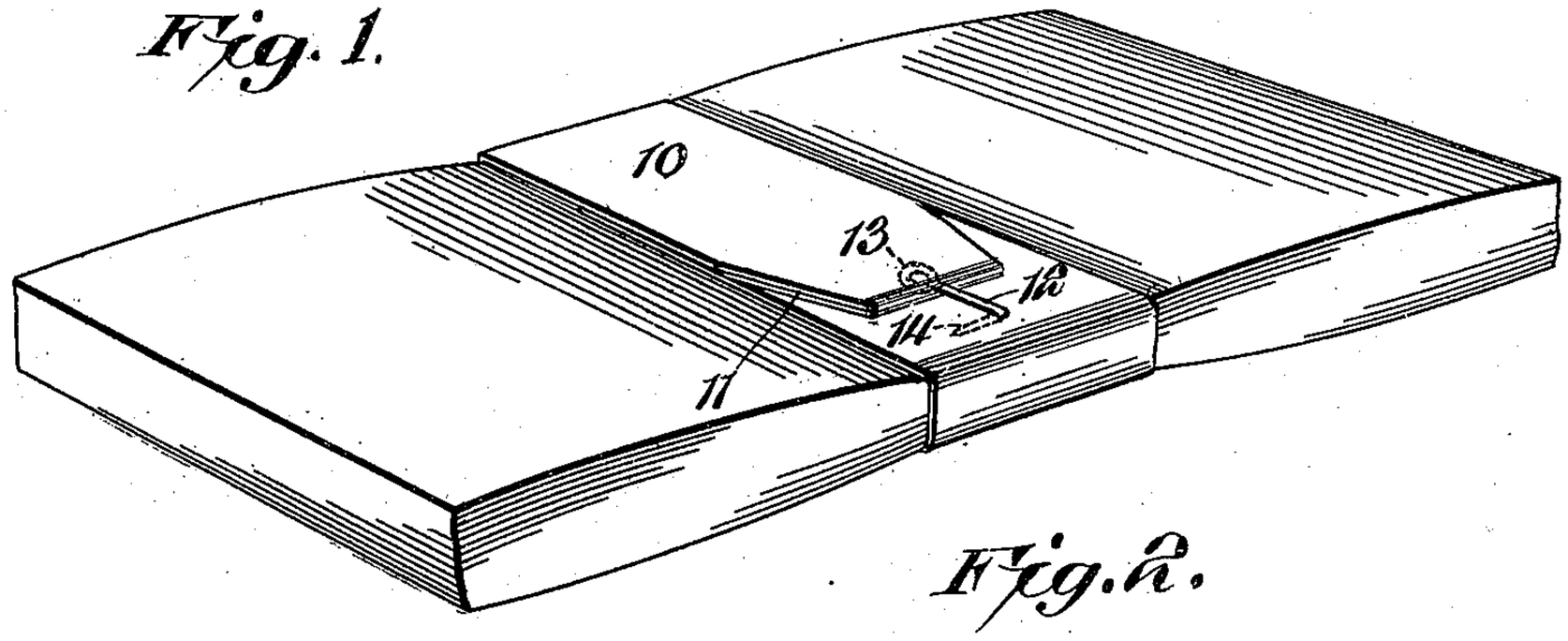

Fig. 2.

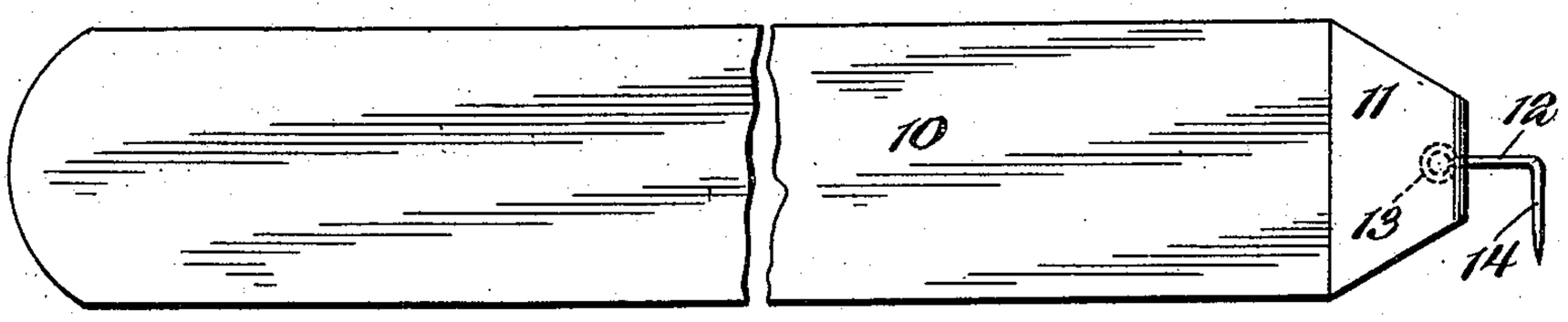

Fig. 5.

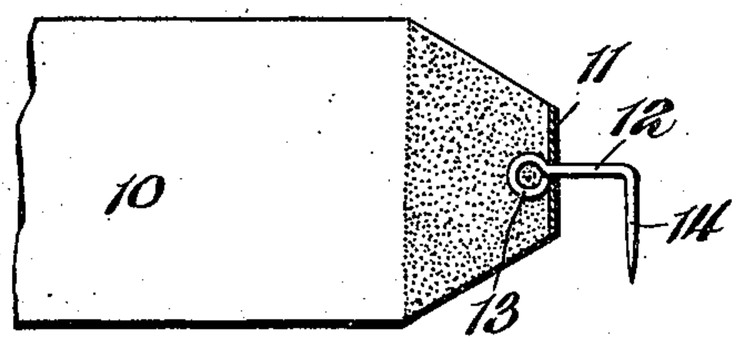

Fig. 3.

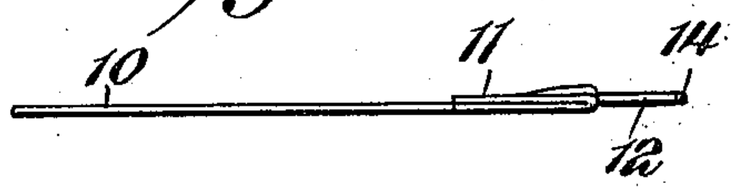

Fig. 4.

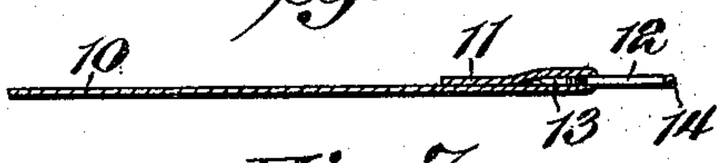

Fig. 6.

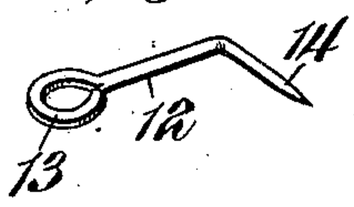

Fig. 7.

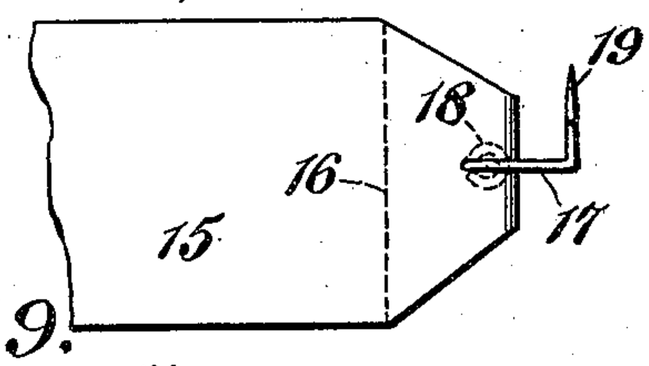

Fig. 8.

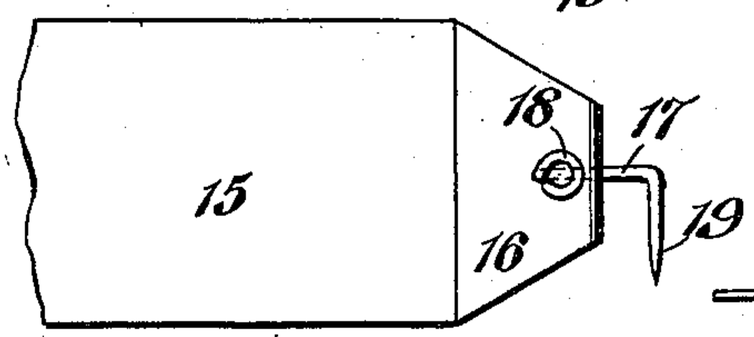

Fig. 9.

Witnesses

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UNITED STATES PATENT OFFICE.

WALTON DUANE SMITH, OF PROPHETSTOWN, ILLINOIS, ASSIGNOR OF ONE-THIRD TO JOHN A. FIRMAN AND ONE-THIRD TO OLIVER P. PETTY, OF PROPHETSTOWN, ILLINOIS.

PACKAGE-TIE.

981,890. Specification of Letters Patent. **Patented Jan. 17, 1911.**

Application filed June 23, 1908. Serial No. 439,984.

To all whom it may concern:

Be it known that I, WALTON DUANE SMITH, a citizen of the United States, residing at Prophetstown, in the county of Whiteside and State of Illinois, have invented a new and useful Package-Tie, of which the following is a specification.

An object of my invention is to provide means for securing a slip of paper, cloth, card-board or any other suitable material to or around a package or other body, the principal object of the present invention being to provide a device for securing together bank notes or for fastening other small packages, said device being simple and cheap to construct, readily applicable to packages of various sizes, and as readily removable therefrom, but so constructed that it will retain its binding action, or in other words, be held against accidental displacement at all times, and can be applied with any degree of snugness or tautness desired.

A further and important object is to so construct the device that it will not mutilate the articles held by it, and a large number of the ties may be packed in a small space without danger of their injuring one another.

In the accompanying drawings:—Figure 1 is a perspective view of an embodiment of my invention in the form of a package tie shown in place upon a package. Fig. 2 is a plan view of the tie. Fig. 3 is an edge view of one end of the same. Fig. 4 is a sectional view. Fig. 5 is a sectional view at right angles to Fig. 4. Fig. 6 is a detail perspective view of the fastening pin. Fig. 7 is a plan view of a portion of a tie showing a slightly modified form of construction. Fig. 8 is a view of the opposite side to that shown in Fig. 7. Fig. 9 is an edge view of the structure.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the specific embodiment illustrated, a flexible foldable narrow slip 10 is employed, preferably of paper, though it may be constructed of other suitable material adapted to be applied as a band around a package. One end of this slip is doubled, as shown at 11 and tapered, and from said end projects the shank 12 of a holding pin, the inner end of the shank terminating in a flat eye 13 that is arranged between the folds, and consequently holds the shank against turning, the folds being glued or otherwise secured together, as will be clear by reference to Fig. 5. The outer end portion 14 of the pin is disposed at right angles to the shank 12, and has its free terminal pointed. This end portion, as will be clear by reference to Figs. 3 and 4, is arranged flat with the slip, in other words in substantially the same plane therewith, or in a plane substantially parallel to the plane in which the slip is located.

In applying the tie to an article or package, in the embodiment shown in the drawings, the slip in the form of a band is passed about the package and the pointed end portion 14 is then engaged at the desired place to hold the band with sufficient snugness. In this connection, it will be evident that the end portion 14 will lie flat between the band and the adjacent face of the topmost article. Consequently the articles will not be mutilated. It will thus be evident that the structure has a number of decided advantages. In the first place, if the pin was disposed in a plane at right angles to the slip, it would necessarily enter the articles held by the tie, and if bent to an acute angle, the point would enter at a place that would cause the slip or band to be loosened when the full end portion had entered the opening. In other words it would require expert guesswork to introduce the point at the proper place to secure the desired snugness. An additional advantage resides in the fact that as the pointed end portions 14 lie flat, a number can be placed together without danger of the point of one entering and tearing or mutilating other slips.

As an indication of how the structure may be modified, attention is invited to Figs. 7, 8 and 9. In this embodiment of the invention, the slip is designated 15, and has a doubled and tapered end portion 16. The shank of the pin 17 extends longitudinally of the slip but passes through the doubled portion, the flat loop or eye 18 being bent against the opposite side of the doubled end to that over which the shank passes. The right angular disposition of the pointed end portion 19 is retained, however, as in the other construction, and is disposed flat and in substantially the same plane with the slip.

This structure, it will be apparent has all the advantages of that above described.

While I have shown my device as used as a means for fastening the ends of a package tie to each other, I do not wish to be limited to this application of my invention, as the same construction of hook and attached slip might be used as a means for attaching tags or other slips of material to goods or in analogous situations without any special modification; it being evident that the hook shaped pin could be as effectively inserted into the goods on which the slip was to be fastened as it could through the material of the slip itself, and that there is no change in either case over the actual form of the invention shown, but merely a change in its application.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that within the scope of the appended claims various changes in the size, shape, proportion, and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. A device for the purpose described comprising a slip and a single pin carried by and rigidly secured to one end of the slip and having an offset pointed end that lies flat with the slip in substantially the same plane therewith and transverse to the length thereof with its point extending toward one edge of the slip.

2. A package tie comprising a flexible foldable slip adapted to be applied as a band around the package, a single point fastening pin disposed at one end and at the median line of the slip and having its point extending laterally at substantially a right angle to its shank and spaced from the edge of the slip, and means connecting the shank end of the pin to the slip to prevent rotary, lateral or longitudinal movement of the pin on the slip, said pin lying flat with the slip in substantially the same plane therewith.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WALTON DUANE SMITH.

Witnesses:
D. L. Woodard,
Geo. E. Warner.