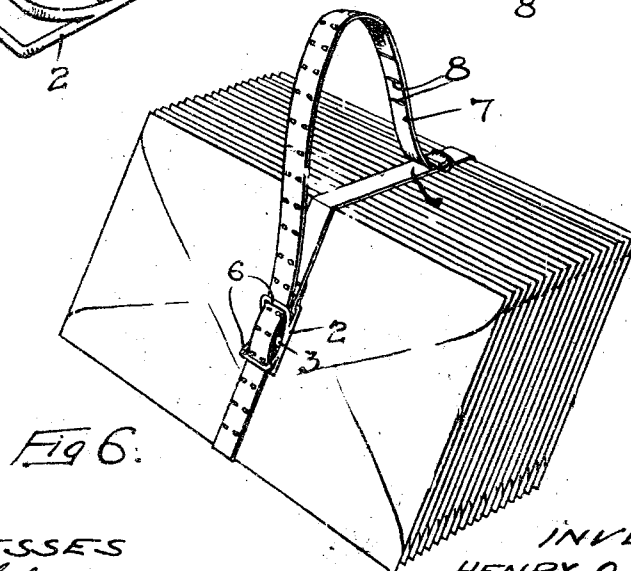
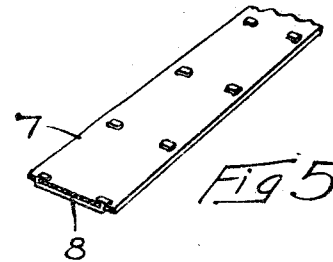
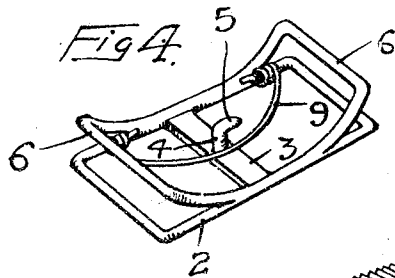
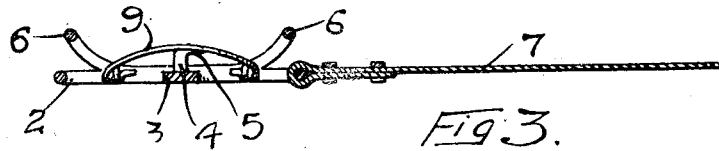
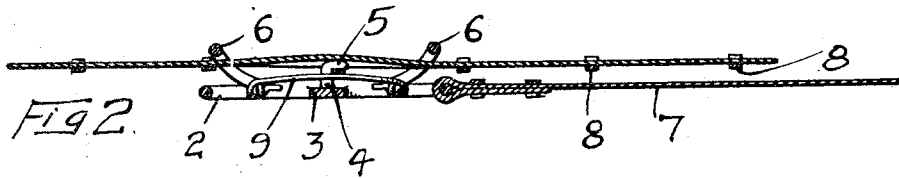
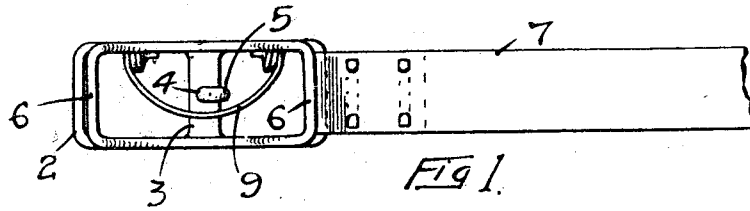


H. O. RICHARD.
PACKAGE TIE.
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1,033,470.

Patented July 23, 1912.



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HENRY O. RICHARD, OF MINNEAPOLIS, MINNESOTA.

PACKAGE-TIE.

1,033,470.

Specification of Letters Patent.

Patented July 23, 1912.

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To all whom it may concern:

Be it known that I, HENRY O. RICHARD, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful
5 Improvements in Package-Ties, of which the following is a specification.

The object of my invention is to provide a device adapted particularly for use for binding packages of various kinds and particularly letters, it being essential in devices
10 used for binding letters that they be of such construction that the tie can be easily and quickly put in place or removed.

Other objects of the invention will appear from the following detailed description.

The invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed out in the claims.

In the accompanying drawings forming part of this specification, Figure 1 is a plan view of the frame of the tie embodying my invention, Fig. 2 is a longitudinal sectional view of the same, showing the strap inserted through the frame, Fig. 3 is a similar view, with the loose end of the strap removed from the frame, Fig. 4 is a perspective view of the frame, Fig. 5 is a similar view of a portion of the strap, Fig. 6 is a perspective
20 view showing the tie on a package of letters.

In the drawing, 2 represents the frame, preferably rectangular in form, having a centrally arranged cross bar 3 on which the upright stud 4 is mounted, provided with a horizontal projecting end portion 5. This stud or post forms the tongue of the tie. At each end of the frame I provide rails 6 corresponding in form to the ends of the frame and formed integrally with the side rails of the main frame. A space is provided between the ends of the frame and the rails 6, through which the strap 7, having one end permanently attached to the end rail of the main frame, is inserted. The loose end of the strap is provided with a series of loops 8 secured at intervals thereto, the bars of these loops lying close to the under surface of the strap, as indicated in Fig. 2. These
30 loops may be formed of suitable material, such as narrow metallic tongues, the ends of which are thrust through the strap and clenched, while the middle portion or bars of the loops extend transversely of the strap in position to interlock with the end 5 of the stud when it is desired to fasten the

strap around a package. I prefer also to provide a spring device 9 having its ends mounted on a side rail of the main frame and its intermediate portion curved preferably and lying close to the stud 4 and adapted to bear on the loop 8, with which the stud is interlocked, as indicated in Fig. 2, to prevent the accidental disengagement of the stud from the loop.

To use the device, the strap is placed around the package, the loose end inserted between the rails 6 and the ends of the main frame, and when the strap has been drawn sufficiently tight the hooked end of the stud is inserted into one of the loops, the spring 9 being pressed down, and when the stud and loop are interlocked the spring will hold them in cooperating relation until such time as it is desired to open the package.

The spring 9, in addition to its function of holding the loop in locking engagement with the end of the stud, also presses the strap upwardly and prevents it from catching prematurely on the stud as the loose end of the strap is drawn back and forth through the frame.

I claim as my invention:—

1. A package tie comprising a frame having a cross bar, a hooked stud mounted on said cross bar, a strap having one end attached to said frame and provided with loops adapted to receive the hooked end of said stud, and means mounted on said frame and adapted to contact with the underside of said strap and normally hold it out of engagement with said hook when the strap is drawn through said frame and prevent accidental disengagement of the hook and loop when the package tie is in use.

2. A package tie comprising a frame and cross bar, a hooked stud mounted on said bar, a strap having one end attached to said frame and provided with loops adapted to receive the end of said stud, a spring device adapted to engage said strap and prevent accidental disengagement of said strap and hook when the device is in use, and also operating to hold said strap out of contact with said hook when the strap is drawn through said frame.

3. A package tie comprising a frame having a cross bar, a stud mounted thereon provided with a horizontal extension at its upper end, a spring having its ends attached to the side rail of said frame and curved around the opposite side of said stud, the

middle portion of said spring being on a level substantially with the horizontal extension of said stud, and a strap having cross loops adapted to receive said horizontal extension and to be held in locking engagement therewith by the pressure of said spring.

4. A package tie comprising a frame and cross bar, a hooked stud mounted on said cross bar, a strap having one end attached to said frame and provided with a series of transverse loops adapted to receive the

hooked end of said stud, and a spring device mounted on said frame contiguous to said hooked end and adapted to contact with the underside of said strap and hold said hooked end and loops in locking engagement with one another.

In witness whereof, I have hereunto set my hand this 10th day of January, 1912.

HENRY O. RICHARD.

Witnesses:

GENEVIEVE E. SORENSEN,
CATHERINE H. REHFUSS.