T. M. PRICE & J. S. RICHARD.

BUNDLE TIE.

APPLICATION FILED SEPT. 10, 1907.

911,677. Patented Feb. 9, 1909.

Fig. 2.

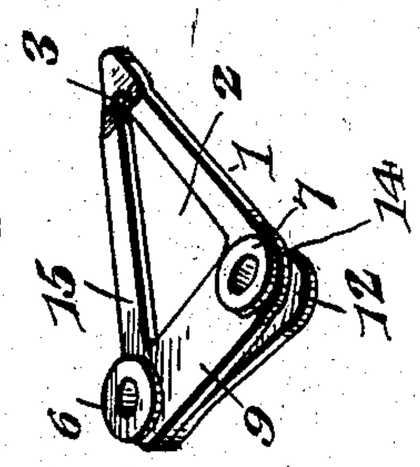


Fig. 3.

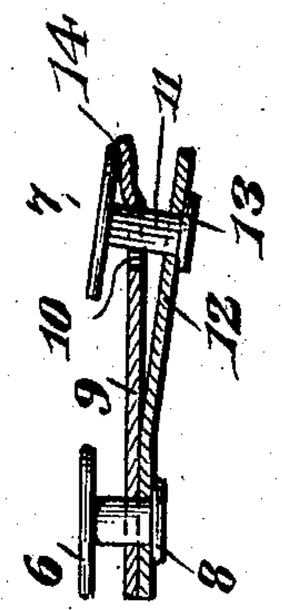
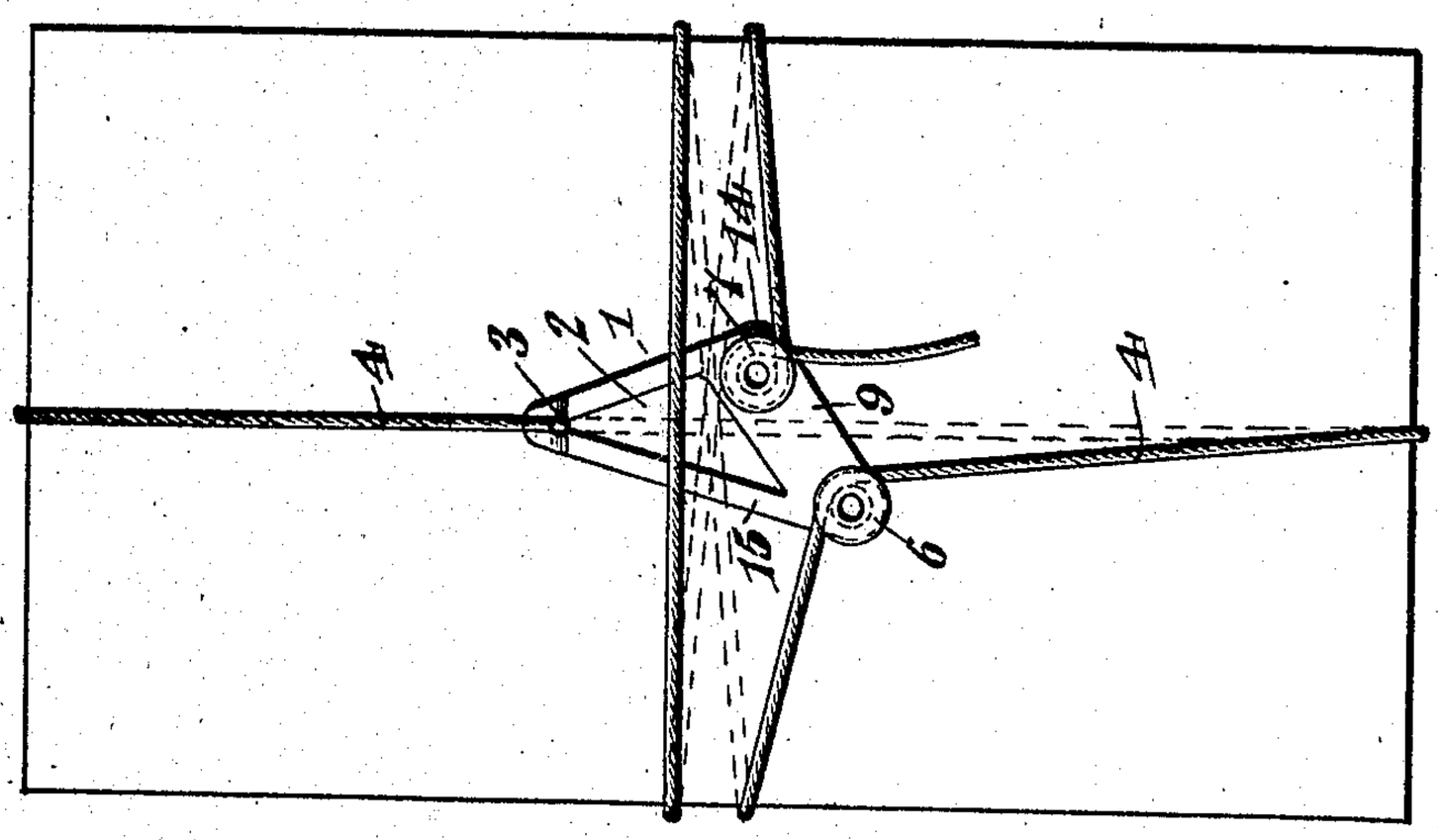


Fig. 4.

Fig. 1



Witnesses
Jas. K. McCathran
T. L. J. Riley.

Thomas M. Price,
Jay S. Richard, Inventors
By E. G. Siggers
Attorney

UNITED STATES PATENT OFFICE.

THOMAS M. PRICE AND JAY S. RICHARD, OF ITASCO, TEXAS.

BUNDLE-TIE.

No. 911,677. Specification of Letters Patent. Patented Feb. 9, 1909.

Application filed September 10, 1907. Serial No. 392,155.

To all whom it may concern:

Be it known that we, THOMAS M. PRICE and JAY S. RICHARD, citizens of the United States, residing at Itasco, in the county of Hill and State of Texas, have invented a new and useful Bundle-Tie, of which the following is a specification.

The invention relates to improvements in bundle ties.

The object of the present invention is to improve the construction of bundle ties, and to provide a simple, inexpensive and efficient device of great strength and durability, designed particularly for use on mail matter, and adapted to be rapidly and securely tied into packages, and capable of enabling the same to be easily and quickly untied while tightly holding the package.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a plan view of a bundle tie, constructed in accordance with this invention and shown applied to a package. Fig. 2 is a detail perspective view of the triangular plate or frame. Fig. 3 is an enlarged detail sectional view of the same. Fig. 4 is a detail sectional view, illustrating the manner of attaching one end of the binder to the plate or frame.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

1 designates a triangular plate or frame, constructed of sheet metal, or other suitable material and provided with a triangular opening 2 and having a recess 3 at one of its angles to receive a cord 4, which forms a binder. The binder may be constructed of any suitable material, and the cord 4 is provided at its attached end with a knot 5, which engages the lower face of the plate or frame. The recess 3, which is located at one of the crotches of the tapered or triangular opening, is preferably segmental, as shown, and is of a diameter less than the knot and it presents rounded edges to the cord to avoid injuring the same.

The plate or frame is provided at its other angles with buttons or studs 6 and 7. The button or stud 6, which is rigid with the plate or frame, forms a guide for the binder and consists of a shank, piercing the plate or frame and provided at its lower end with a head 8, and having an enlarged head at its upper end, spaced from the upper face of the plate or frame to enable the cord to be engaged with and passed partially around the shank of the stud or button 6, as clearly indicated in Fig. 1 of the drawing. The shank of the button or stud 6 may be tubular, as shown, and the head prevents the cord from slipping off the shank.

The side or portion 9, at which the buttons or studs are mounted, is of greater width than the other two sides of the triangular plate or frame, and it is provided at the end at which the button or stud 7 is mounted with a slot 10 to receive the shank 11 of the button or stud 7. The lower end of the shank of the button or stud 7 pierces a metallic strip 12 and is rigidly connected with the latter, being provided at the lower face of the strip with a suitable head 13 to prevent it from pulling out. The strip, which is located at the lower face of the plate or frame, extends longitudinally of the side 9 and is rigidly secured at one end to the same by the button or stud 6. The strip diverges from the side 9, which has its slotted portion bent upward to form a jaw 14, which is resilient and coöperates with the button in clamping the free end of the cord 4. The button or stud 7 and the coöperating resilient portion of the plate are relatively movable in the opening and closing movements of the clamp, and the resiliency of the plate maintains the jaw 14 and the button or stud firmly in engagement with the free end of the cord.

The enlarged side 9 of the triangular plate or frame is arranged at an acute angle to the side 15, which is the longest side of the triangle, the distance between the notch 3 and the stud or button 6 being greater than the distance between the said notch 3 and the stud or button 7, so that the latter is arranged at a point intermediate of the ends of the major axis of the device, when the same is placed on a package, as illustrated in Fig.

1 of the drawing. This will enable the cord to be passed around the package without requiring the operator to release his grip on the letters or other matter constituting the bundle until the same is securely tied.

In tying up a package of letters, the letters are held in the left hand and the rigid stud or button is placed beneath the thumb. The cord is then passed around the letters longitudinally thereof, and is engaged with the rigid stud or button at the inner side thereof. The direction of the cord is then changed and is wrapped around the bundle in a direction transversely thereof, being preferably passed around the bundle twice, as shown in Fig. 1. The free end of the cord is secured by passing it around the button or stud 7 and drawing the free end between the engaging portion or head of the button and the up-turned jaw of the plate or frame. The cord is crossed at this point where it is clamped, and a tight hitch is thereby effected. The cord is drawn beneath the engaging portion of the button with a sharp pull by which the desired tension is placed on the binder. The bundle may be easily and quickly untied by grasping it with the left hand and then pulling the free end of the cord outward from the cord-engaging means with the right hand. The cord may then be entirely unwound from the bundle without releasing the grip on the same with the left hand, so that there will be no liability of losing control of the letters or tangling the cord. The device is practically indestructible, and the cord may be renewed from time to time. A number of them may be conveniently carried in the pocket, and the opening 2 enables them to be placed on a file or hung on a nail, or other fastening device.

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

1. A bundle tie comprising a binder, a plate or frame having one end of the binder attached to it and provided with a slot, a stud passing through the slot and provided with a head coöperating with the plate to form a clamp for engaging the binder, and a strip connected with the stud and carried by the plate, one of the parts being resilient to form a spring clamp.

2. A bundle tie comprising a binder, a plate or frame having one end of the binder attached to it and provided with a slot, a stud passing through the slot of the plate or frame and provided at one face of the same with means for engaging the binder, and a strip connected with the stud and located at the other face of the plate, one of the parts being resilient to form a spring clamp for engaging the binder.

3. A bundle tie comprising a binder, a plate having one end of the binder attached to it and provided with an opening, a headed stud passing through the opening, a strip connected at one end with the stud and secured at the other end to the plate, one of the parts being resilient to form a spring clamp.

4. A bundle tie comprising a binder, an approximately triangular plate having an opening and provided at one of its angles with a recess receiving one end of the binder, said plate or frame being provided at another of its angles with a slot and being resilient thereat, a rigid stud mounted on the plate at another angle thereof, a clamping stud passing through the slot and coöperating with the resilient portion of the plate to form a clamp, and a strip carried by the plate and connected with the clamping stud.

5. A bundle tie including a plate or frame, a rigid stud mounted on the plate or frame, a clamping stud piercing the plate and spaced from the said stud, and a strip connected with the clamping stud and secured to the plate by the rigid stud, one of the parts being resilient to form a spring clamp.

In testimony, that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

THOMAS M. PRICE.
JAY S. RICHARD.

Witnesses:
JNO. R. GRIFFIN,
M. S. WOOD.