No. 750,782. PATENTED JAN. 26, 1904.

L. F. RAMSEY.

ROPE TIE.

APPLICATION FILED SEPT. 24, 1903.

NO MODEL.

Fig 1

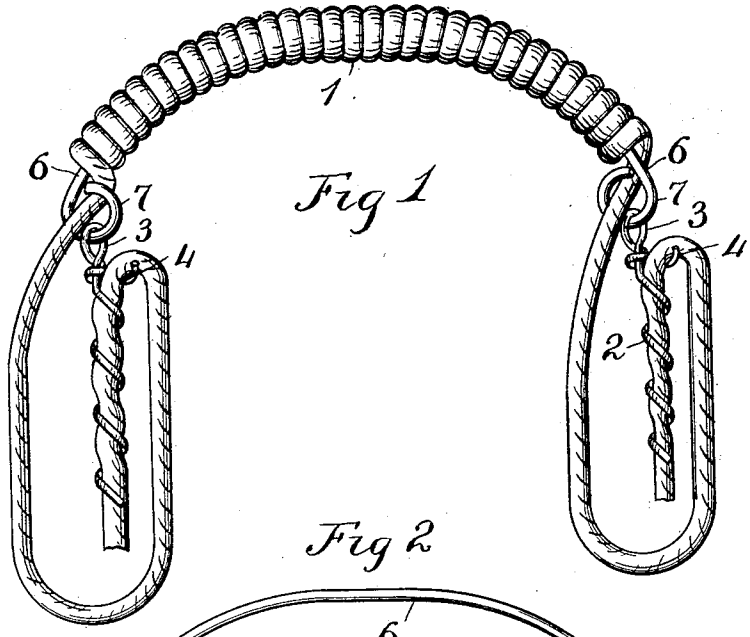


Fig 2

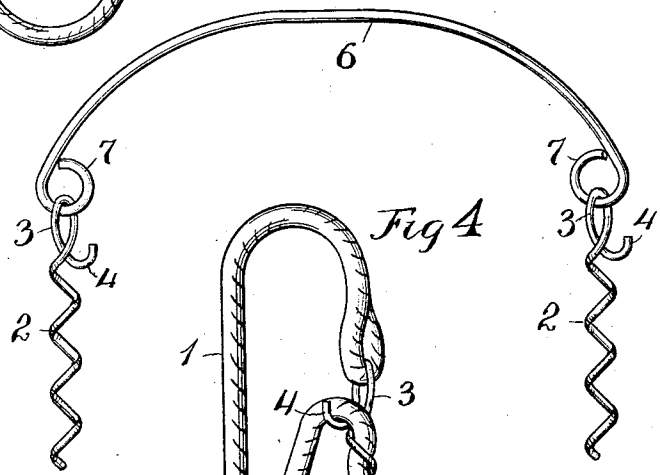


Fig 3

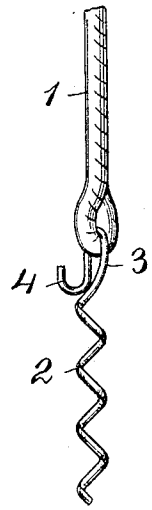
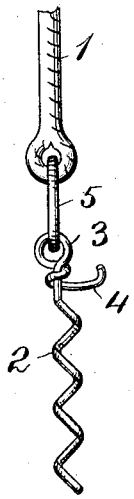


Fig 4

Fig. 5.



WITNESSES:

R. E. Hamilton.

J. B. Wheatley.

INVENTOR

Lewis F. Ramsey,

By Warren D. House,

His Attorney.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 750,782. Patented January 26, 1904.

UNITED STATES PATENT OFFICE.

LEWIS F. RAMSEY, OF KANSAS CITY, MISSOURI.

ROPE-TIE.

SPECIFICATION forming part of Letters Patent No. 750,782, dated January 26, 1904.

Application filed September 24, 1903. Serial No. 174,393. (No model.)

To all whom it may concern:

Be it known that I, LEWIS F. RAMSEY, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Rope-Ties, of which the following is a specification.

My invention relates to improvements in rope-ties.

The object of my invention is to provide a simple and effective device for securing the end of a cord, rope, strap, or similar article.

My invention is particularly applicable for rope halters, hammock-ropes, clothes-lines, hitching-ropes, tackle-ropes, baling or bundling ropes, or any other use in which it is desirable to quickly tie or untie the rope secured by the device.

My invention provides, further, a novel bundle tie or carrier which may serve in lieu of the ordinary shawl-strap mechanism.

My invention consists, further, in providing a spirally-formed body having at one end a rope-engaging device, the diameter of the coils of the spiral being less than the diameter of the rope to be inserted therein, thus crimping or throwing the rope out of a straight line when the rope has been twisted into position between the coils of the spiral body.

Other novel features are hereinafter fully described and claimed.

In the accompanying drawings, illustrative of my invention, Figure 1 is a side elevation view of my invention as applied to a bundle tie or carrier. In this view the rope is shown wrapped around the handle and having its ends formed into loops for engaging the bundle, the ends of the rope being shown secured to the rope-ties at the ends of the handle. Fig. 2 is a view similar to Fig. 1, the rope being omitted and the form of rope-ties being the same as shown in Fig. 3. Fig. 3 is a view of a modified form of rope-tie shown in side elevation and secured to a piece of rope. Fig. 4 is a view similar to Fig. 3, both ends of the rope being shown engaged with the rope-tie. Fig. 5 is a side elevation view of a form of rope-tie used for halter-ropes and shown in Fig. 1.

Similar characters of reference indicate similar parts.

1 indicates a rope. The rope-tie comprises a spirally-formed body 2, having at one end an eye 3 for supporting the body. A shoulder or fulcrum 4 is provided between the eye 3 and the first spiral of the body. The diameter of the rope is greater than the interior diameter of the coils of the spiral body 2, and the distance between the different coils is preferably greater than the diameter of the rope. The rope 1 may thus be readily twisted around or inserted between the coils, and when so inserted, as shown in Fig. 4, the rope will be crimped and will thus be retained from slippling through the spiral. The function of the fulcrum 4 is to retain the rope in the first coil of the spiral and also to provide a bearing over which the rope may be drawn for the purpose of tightening and prior to its being twisted between the coils of the spiral. In the forms shown in Figs. 3 and 4 one end of the rope is secured to the eye 3. As shown in Fig. 5, the rope 1 may be secured at one end to the ring 5, the ring being in turn secured to the eye 3 of the spiral body. As shown in Fig. 5, the upper end of the body may be twisted around itself between the eye 3 and the first coil of the spiral. This form gives considerable strength to the eye. The rope-tie may be formed of a single piece of wire, or it may be otherwise made, if desired—as, for instance, by casting in metal.

In Figs. 1 and 2 I have shown my invention applied in the form of a bundle-carrier or bundle-tie. In this form of my invention I provide a curved handle 6, having its ends formed into eyes 7, adapted to receive therein the rope 1 and also adapted to support, one each, the two spiral rope-ties 2, the eyes of the handle being engaged, respectively, by the eyes of the rope-ties. When not on a bundle, the rope at its ends is disengaged from the spiral bodies 2; but it is wrapped around the handle and extends through the eyes 7. In operating

this form of my invention the free ends of the rope are passed around the bundle or other article to be carried and over the shoulders or fulcrums 4. The ends of the rope are drawn tight over the fulcrums 4 and are then wound around and between the coils of the spiral members 2. The rope being larger in diameter than the interior diameter of the coils of the spirals 2 will be crimped and will thus by friction be retained in the spiral member and prevented from slipping therein. In order to disengage the rope from the spirals 2, it is only necessary to unwind the rope from the spiral, after which the rope may be easily withdrawn from the fulcrum 4.

My invention may be modified in other ways without departing from its spirit.

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

1. A rope-tie comprising a spirally-formed body having at one end a rope-engaging device, the interior diameter of the coils of the spiral being less than the diameter of the rope adapted to be held therein and the distance between the different coils being greater than the interior diameter of the coils, whereby the rope when engaged by the coils will be crimped and thrown out of a straight line between the coils.

2. A rope-tie comprising a spirally-formed body having an eye at one end for engaging a rope, the interior diameter of the coils of the spiral portion being less than the diameter of the rope adapted to be held therein and the distance between the different coils being greater than the interior diameter of the coils, whereby the rope when engaged by the coils will be crimped and thrown out of a straight line between the coils.

3. A rope-tie comprising a body formed from a single piece of wire into a spiral form, a portion of the wire near one end being formed into an eye, and the said end being hook-shaped and disposed between the said eye and the first adjacent coil of the spiral.

4. A rope-tie comprising a body formed from a single piece of wire into a spiral form, the diameter of the coils of the spiral being less than the diameter of the rope to be held therein, a portion of the wire near one end being formed into an eye, and the said end being hook-shaped and disposed between the eye and the adjacent coil of the spiral, the point of the hook extending in a direction opposite to the coiled portion of the wire.

5. A rope-tie comprising a spirally-formed body having at one end a rope-securing device, the interior diameter of the coils being less than the distance between the coils.

6. A rope-tie comprising a spirally-formed body having at one end a rope-securing device, and a fulcrum intermediate the said device and the first coil of the spiral, the interior diameter of the coils of the spiral being less than the distance between the coils.

7. A rope-tie comprising a spirally-formed body having at one end an eye, a fulcrum intermediate the eye and the first coil of the spiral, the interior diameter of the coils of the spiral being less than the distance between the coils.

8. A rope-tie comprising a wire part of which is spirally formed, one end of the wire being first formed into an eye and then given a turn around itself between the eye and the first coil of the spiral, the extreme end thus formed being turned in a direction opposite the spiral portion.

9. In a rope-tie, the combination with a handle having an eye formed at each end, of two rope-engaging devices comprising each a spiral-formed body having an eye each at one end, the eyes of the said spiral bodies being engaged respectively with the eyes of the said handle.

10. A rope-tie comprising a handle having an eye at each end, and two spirally-formed devices connected one to each of said eyes, the interior diameter of the coils of each of said devices being less than the distance between the coils.

11. A rope-tie comprising a handle having an eye at each end, and two spirally-formed devices connected one to each of said eyes of the handle, each of said devices being provided with a fulcrum for the rope disposed between the handle and the adjacent coil of the spiral.

12. A rope-tie comprising a handle having two eyes, one at each end, two rope-engaging devices secured one to each of said eyes, each of said devices being spirally formed a portion of its length and provided with a fulcrum for the rope between the handle and the adjacent coil of the spiral, the interior diameter of the coils of each device being less than the distance between the coils.

13. A bundle tie or carrier comprising a handle, two spirally-formed members connected one to each end of the handle, and a rope or similar article engaging the handle and having its ends adapted to encircle the bundle and be twisted into the coils of the spiral members respectively, the interior diameter of said coils being less than the distance between the coils and less than the diameter of the rope.

14. A bundle tie or carrier comprising a handle, two spirally-formed members connected one to each end of the handle, each of said members being provided with a fulcrum adapted to receive a rope and disposed between the handle and the adjacent coil of the spiral, and

a rope or similar article engaging the handle and adapted to have its ends encircle the bundle and be twisted, after engaging the said fulcrums, around the coils of the spiral members.

15. A rope-tie comprising a spiral body having a supporting means at one end and free at the other end and adapted to have a rope, cord or similar article wound within the coils, the interior diameter of the coils being less than the distance between the coils.

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

LEWIS F. RAMSEY.

Witnesses:
WARREN D. HOUSE,
HENRY F. ROSE.