No. 716,877. Patented Dec. 30, 1902.

H. S. DURAND.

ROPE TIP.

(Application filed May 7, 1900.)

(No Model.)

Fig. 1.

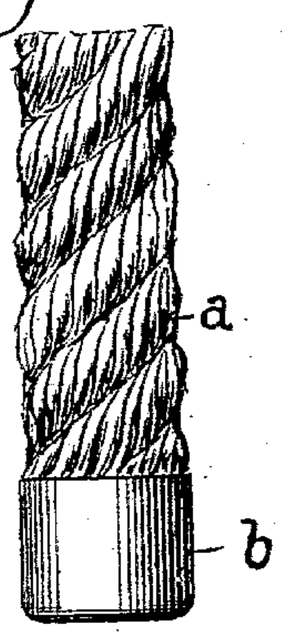


Fig. 2.

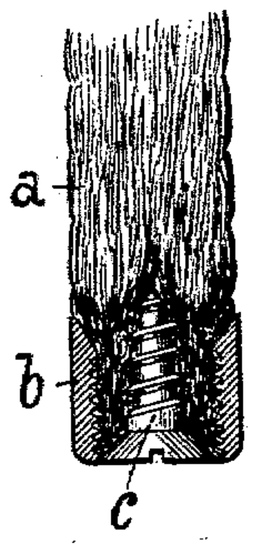


Fig. 3.

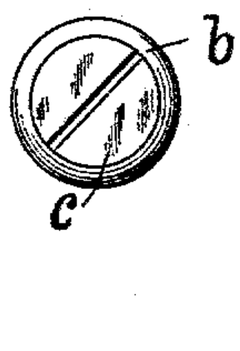
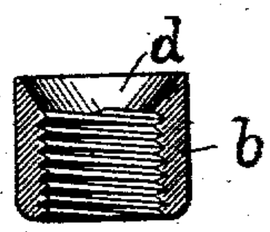


Fig. 4.



WITNESSES:
C. C. Miller
A. F. Thompson

INVENTOR
Henry S. Durand.
BY
Daniel A. Carpenter,
ATTORNEY.

UNITED STATES PATENT OFFICE.

HENRY S. DURAND, OF ROCHESTER, NEW YORK.

ROPE-TIP.

SPECIFICATION forming part of Letters Patent No. 716,877, dated December 30, 1902.

Application filed May 7, 1900. Serial No. 15,682. (No model.)

To all whom it may concern:

Be it known that I, HENRY S. DURAND, a citizen of the United States, and a resident of Rochester, in the county of Monroe and State of New York, have invented a certain new and useful Improvement in Rope-Tips, of which the following is a full, clear, and exact description, reference being made to the accompanying drawings, forming part of this specification.

This invention relates to improvements in means for binding the ends of ropes or cords to prevent them from untwisting or fraying; and the invention consists of the peculiar rope-tip which is herein described and claimed.

On the accompanying sheet of drawings, Figure 1 shows a piece of rope provided with this rope-tip. Fig. 2 is a sectional view thereof; Fig. 3, an end view of the tip, and Fig. 4 a section of one of the parts of the tip.

Similar reference-letters designate like parts in the different views.

The invention is applicable to both twisted and braided ropes and cords. It not only prevents them from untwisting or fraying at the ends, but it imparts to their ends a neat finish and does not render it troublesome to pass them through eyes or pulley-blocks, as do knots and other enlargements.

The tip is shown affixed to a twisted rope *a*. The tip proper is composed of two parts, one being a threaded ring or ferrule *b*, in which the rope fits, and the other a screw having a head which closes the end of the ferrule—such, for example, as the screw *c*. The end of the rope is inserted in the flaring mouth *d* of the ferrule and is drawn into and through it by the action of the screw-thread on the rope, the ferrule being turned on the rope as a nut is turned and the thread making in the rope a spiral impression, in which it engages with the rope. The diameter of the ferrule is about the same as that of the rope, and that part of the rope which is drawn into the ferrule is compressed, as appears by Fig. 2. It is usually desirable to draw the rope through the ferrule and cut it off flush with the ferrule. The screw *c* is driven into the rope within the ferrule, as indicated by Fig. 2, or so that its head closes the ferrule and forms the face of the tip. The rope is both firmly compressed between and engaged by the threads of the screw and ferrule, and so tightly is the tip thus attached to the rope that even a hard pull does not detach or loosen it.

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

A rope-tip comprising: a ferrule open at both ends and having in it a screw-thread capable of engaging with the rope and drawing it through the ferrule; and a screw between which and the ferrule the rope is compressed, this screw having a head that closes the end of the ferrule next to the end of the rope; substantially as described.

HENRY S. DURAND.

In presence of—
ERNEST HASKELL,
ROBERT K. MCLELLAN.