(No Model.)

L. J. WIDMER.

WIRE ROPE FASTENER.

No. 490,796. Patented Jan. 31, 1893.

Fig. 1.

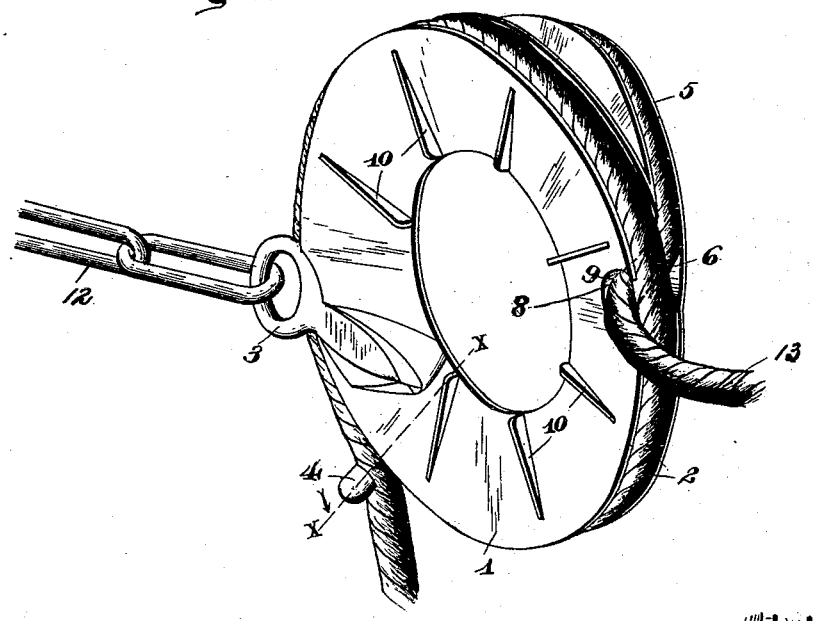


Fig. 2.

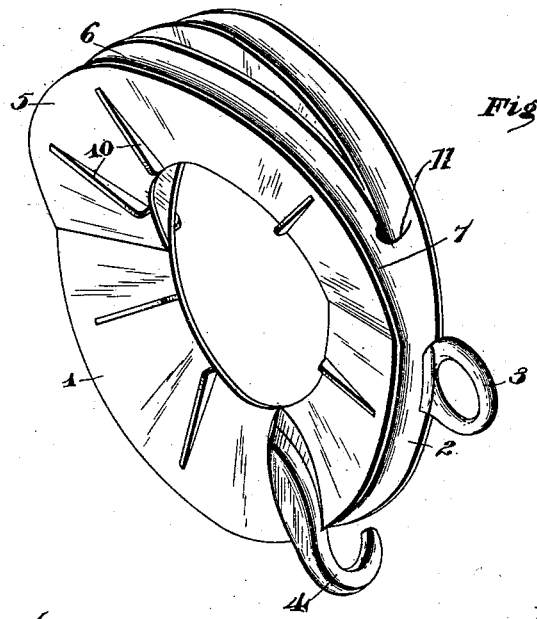
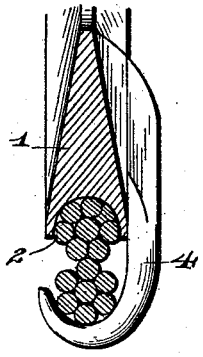


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

LOUIS JOHN WIDMER, OF ABILENE, TEXAS.

WIRE-ROPE FASTENER.

SPECIFICATION forming part of Letters Patent No. 490,796, dated January 31, 1893.

Application filed June 21, 1892. Serial No. 437,513. (No model.)

To all whom it may concern:

Be it known that I, LOUIS JOHN WIDMER, a citizen of the United States, residing at Abilene, in the county of Taylor and State of Texas, have invented a new and useful Wire-Rope Fastener, of which the following is a specification.

This invention relates to certain new and useful improvements in wire rope fasteners adapted especially for use in connection with stump pullers and analogous uses and may be held in suspended position in a vertical plane or arranged horizontally as may be desired and consists of the construction and arrangement of the parts thereof as will be more fully hereinafter described and claimed.

The object of this invention is to simplify the construction and operation of devices of this character and to provide them in such form that the rope may be easily and securely applied thereto and removed therefrom without loss of time or the expenditure of any amount of labor, the same being readily and cheaply manufactured at a comparatively small expense.

In the drawings:—Figure 1 is a perspective view of the improved device showing the rope applied in connection therewith. Fig. 2 is a similar view of the opposite side of the device and the cable removed. Fig. 3 is a section on line *x. x.* Fig. 1.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

Referring to the drawings the numeral 1, designates a main disk which is of annular formation and formed with a circumferential groove 2. On one side of the said disk 1, is an eye 3, to which the chain or rope is attached that runs from the stump being pulled, or from any other source when the device is used for other purposes, and on the opposite side of the said disk is a hook 4, for locking purposes as will be hereinafter set forth. On one side of the disk 1, is a segmental obliquely arranged extension 5, having a groove 6, therein which merges into the groove 2 of the disk 1, at one end and at the said point where it merges into the groove 2, the said groove 6, is made deeper as at 7, as indicated by the curved line 11 to form a depression in order to permit a double coil or winding of the rope over said point without making a bulky extension of the rope beyond the periphery of the disk 1. The said groove 6, at its opposite end cuts across the groove 2, diagonally and below the level of said groove 2, in the form of a decided depression as at 8, and passes out of the device through an opening 9, in the side of the said disk 1. This latter construction also permits one winding of the rope to pass across another winding of the same without forming a bulky extension and by means of the outer winding of the rope bearing on the rope in the groove 6, where it passes through the depression 8, of said groove a secure binding of the rope is obtained which will assist in holding it in connection with the device set forth. Ribs 10, are arranged at intervals on the side surfaces of the disk 1, and the extension 5, in order to strengthen the construction as will be readily understood.

In applying the rope in connection with the device the end thereof is passed through the opening 9, of the disk 1, through the deeper portion 8, of the groove 6, around said groove 6, and through the deeper portion 7, thereof where it merges into the groove 2, of the disk 1, then around the said groove 2, under the hook 4, and crossing the deeper portion 8, of the groove 6, and the portion 7, thereof, back again under the said hook 4, where it is made fast and securely held in connection with the device. In releasing the rope from the device the end thereof is disengaged from the hook 4, and it will release itself from the remaining portion of the grooves.

The fastener is secured to a support to hold it against movement or to a stump to be pulled by a chain 12, and the rope or cable 13 runs to and from a suitable windlass or other analogous device with which the device is preferably employed.

This device will present many superior advantages to those using the same as will be ascertained from time to time.

Having thus described the invention what is claimed as new is:—

The herein described rope fastener, consisting of a disk with a circumferential groove and having a segmental obliquely positioned

extension with a groove therein, and located on one side only thereof the end portions of the groove in the extension running into and across the groove of the disk below the level of the said groove in the said disk, and a hook secured to the said disk, substantially as and for the purposes specified.

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

LOUIS JOHN WIDMER.

Witnesses:

JAMES SAM HIATT,

JOHN SEAL KNIGHT.