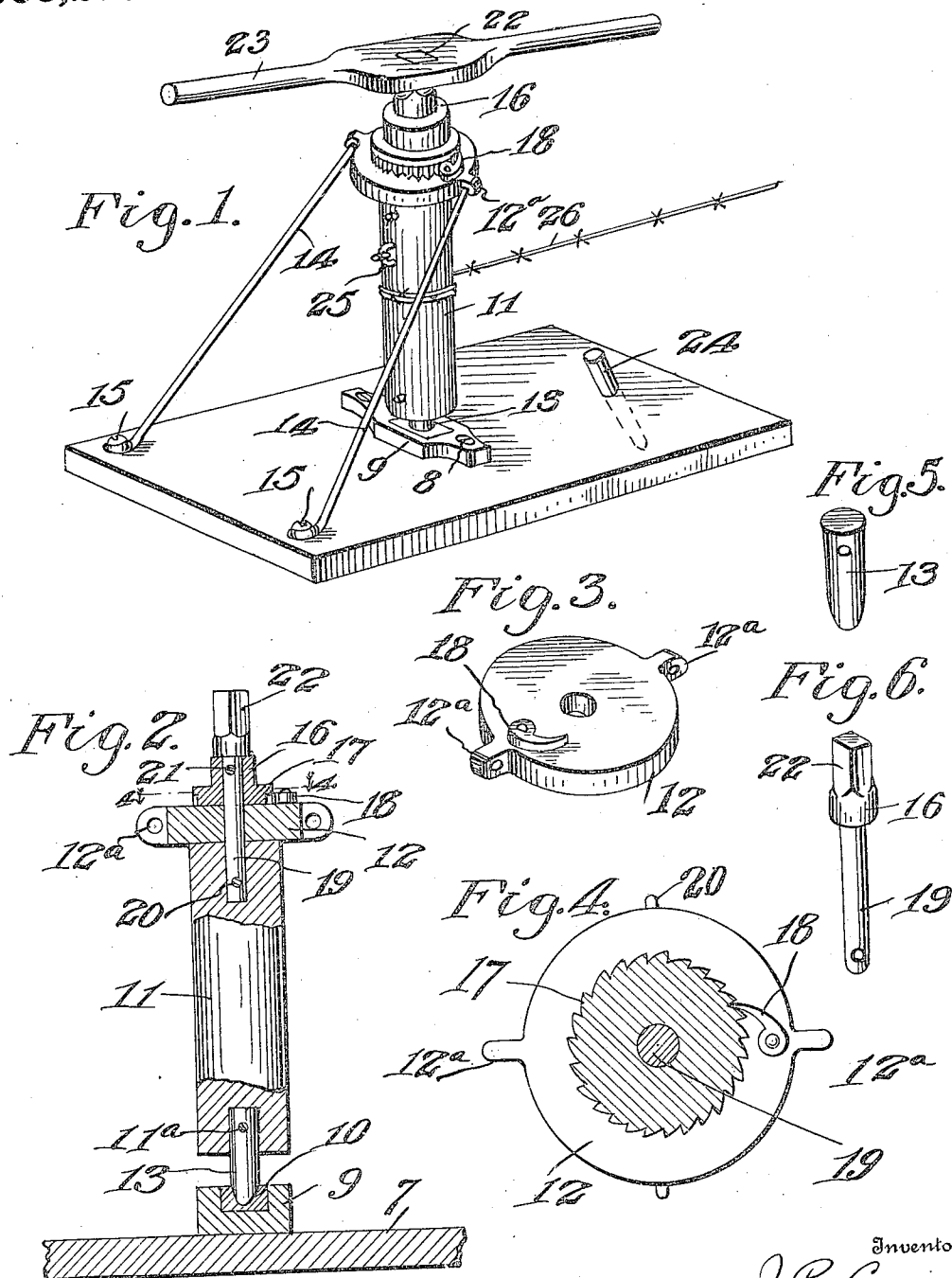


J. P. CARNES.
WIRE STRETCHER.
APPLICATION FILED JULY 6, 1909.

Patented Mar. 29, 1910.

953,257.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN P. CARNES, OF COLDSRING, TEXAS.

WIRE-STRETCHER.

953,257.

Specification of Letters Patent. Patented Mar. 29, 1910.

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To all whom it may concern:

Be it known that I, JOHN P. CARNES, a citizen of the United States, residing at Coldspring, in the county of San Jacinto and State of Texas, have invented certain new and useful Improvements in Wire-Stretchers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to wire stretchers and has for its object to provide an improved wire stretcher especially adapted for use in localities where trees, or other stationary objects from which to pull, are scarce, although the device is applicable in any situation where a wire stretcher is wanted.

With this object in view the invention consists in a portable wire stretcher capable of being located and secured in any position desired, the construction and operation of which device will be hereinafter fully described and the points of novelty specifically set forth in the claim.

I have illustrated an embodiment of my invention in the accompanying drawing in which—

Figure 1 is a perspective view of the apparatus set up for use; Fig. 2 is a central sectional view through the apparatus, partially in elevation, parts being omitted and others being broken away; Fig. 3 is a detail view of the ring for the guy rods; Fig. 4 is a transverse sectional view taken on the plane indicated by the broken line 4—4 of Fig. 2; Fig. 5 is a view of the step journal, detached; and Fig. 6 is a view of the rod upon which the handle is mounted, also detached.

Referring specifically to the drawing 7 indicates the base which is preferably formed of a heavy plank of rectangular form at about the center of which is secured, by means of screws or other suitable fastenings 8, a block 9, which is recessed to receive a cone bearing 10.

11 indicates the main wooden drum or roller, in the center of the bottom of which is secured, by means of a pin or screw 11^a, a journal 13 which is set in the bearing 10 before referred to.

Mounted loosely upon the top of the main drum 11 is a ring 12 provided with ears 13 in which are attached guy rods 14 which are secured to the base by means of screws, or other suitable fastenings 15.

Above the ring 12 and concentric therewith and with the drum 11 is mounted a hub 16 and formed integral therewith is a ratchet wheel 17 which rests upon the top of the ring 12. A pawl 18 is pivoted on the upper face of the ring 12, and is adapted to engage with the teeth of the ratchet wheel 17.

The ring 12, ratchet wheel 17 and its hub 16 are secured to the drum by means of a bar 19 which passes vertically and concentrically through the hub, ratchet wheel and ring, and into a central recess in the top of the drum, said bar being rigidly secured, by means of a pin or other suitable fastening 20, in the drum 11 and by means of a pin, or other suitable fastening 21, in the hub 16, whereby the drum, ratchet wheel and hub are permitted to rotate in the cone bearing before described while the ring 12 is held stationary by means of guy rods 14. The upper end of the bar 19 is squared, or otherwise shaped at 22 to receive a handle 23 by means of which, through the parts before mentioned, the drum 11 may be rotated.

The base 7 is rigidly secured to the earth by any suitable means, a stake 24 being shown in Fig. 1 as driven through an opening in the base into the earth. As many such stakes may be used as may be considered necessary for rigidly securing the base.

Secured in the drum is a staple 25 or equivalent means to which to secure the end of a barb wire 26 or a rope, cord or chain, which may be secured to the end of the barb wire.

The base having been secured in position as shown in Fig. 1 and the drum mounted and held in position by the guy rods 14, the end of the rope, chain, cord or wire is secured in the staple 25 and the drum turned by means of the handle 23. This rotation of the drum will wind the wire, or rope, upon the drum and will effectually stretch the wire. When a sufficient length has been wound upon the drum, the pawl 18 will be engaged with the teeth of the ratchet wheel 17 and the drum prevented from rotating backward and unwinding the rope or wire, and thus slackening the stretch of the wire.

From the foregoing description it will be seen that the device is simple, may be economically constructed, may be readily assembled and taken apart, easily transported, and readily secured in position for operation.

While I have specifically described the

construction of the various parts of my apparatus, I desire it to be understood that minor variations may be made therein without departing from the spirit and scope of my invention.

Having thus described the invention, what is claimed is:

The herein described wire stretcher comprising a base board adapted to be staked to the ground, a bearing block secured to said base board and provided in its top with a recess, a cone bearing set in said recess, a cylindrical wooden drum disposed vertically and formed in its upper and lower ends with concentric recesses, a cone-shaped pivot arranged in the recess in the lower end of the drum and engaged with said cone bearing, a pivot arranged in the recess at the top of the drum and formed at its upper extremity with an enlarged polygonal-shaped head,

transverse fastening pins passed through the drum and the upper and lower pivots, a bearing ring arranged on the top of the drum and having a central opening to receive the upper pivot, the opposite side edges of said ring being formed with apertured ears, inclined braces between said ears and the opposite corners of the base board, a ratchet wheel fixed to the upper pivot above said bearing ring, a pawl carried by the bearing ring to co-act with said ratchet wheel, a handle upon the polygonal upper end or head of the upper pivot, means upon the drum for the attachment of a wire.

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

JOHN P. CARNES.

Witnesses:

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