

(No Model.)

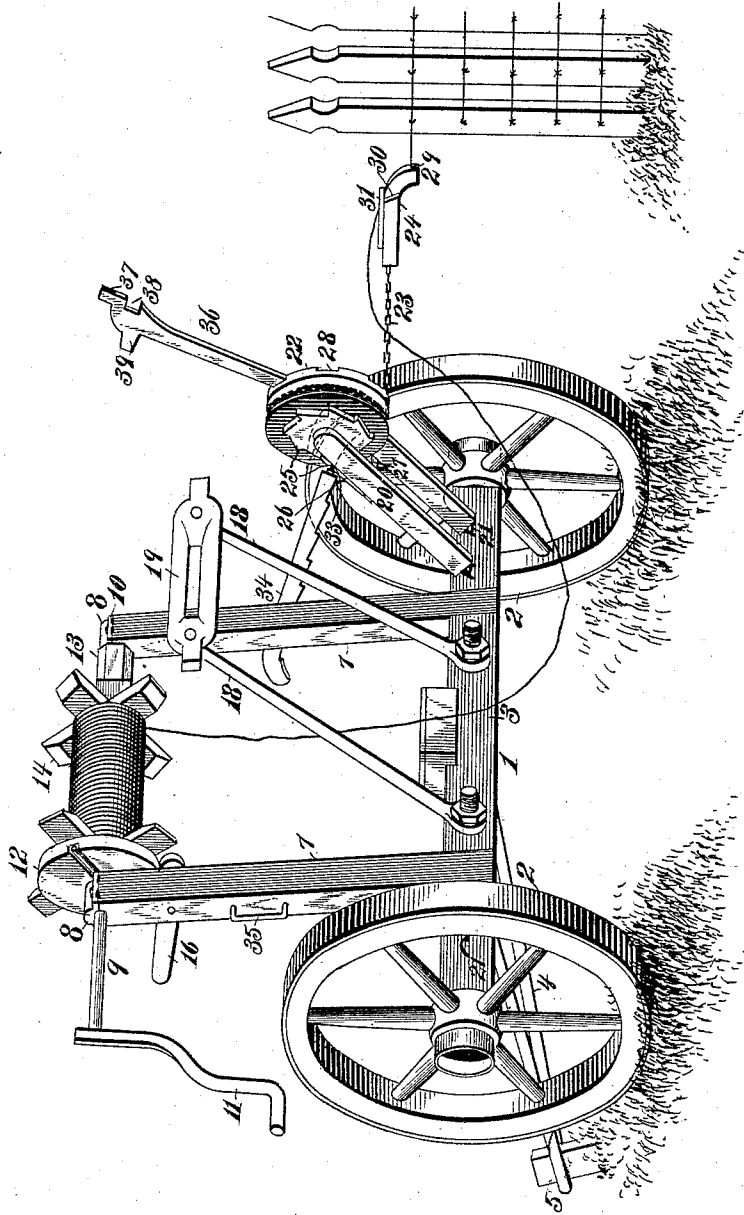
3 Sheets—Sheet 1.

J. H. ROWLETT & S. ROBINSON.
MACHINE FOR REELING AND STRETCHING WIRE.

No. 489,877.

Patented Jan. 10, 1893.

Fig. 1.



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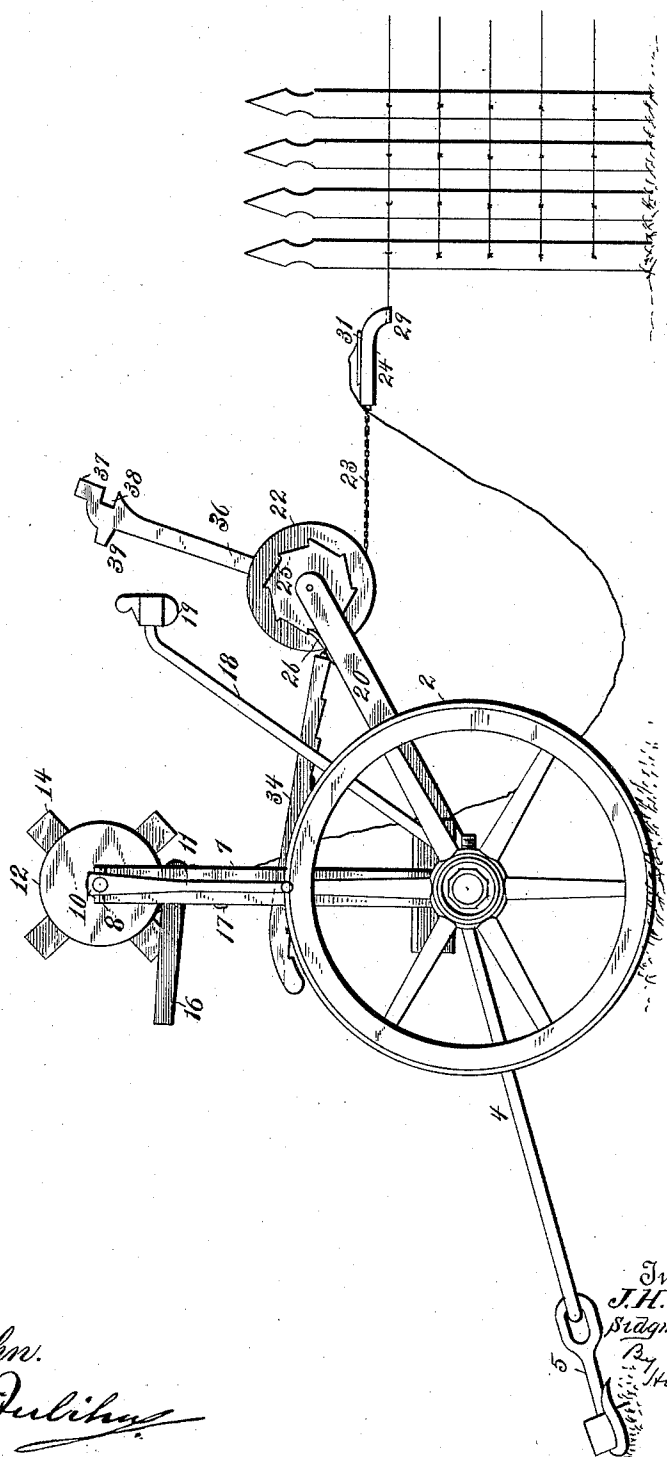
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Fig. 2.



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3 Sheets—Sheet 3.

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Fig. 3.

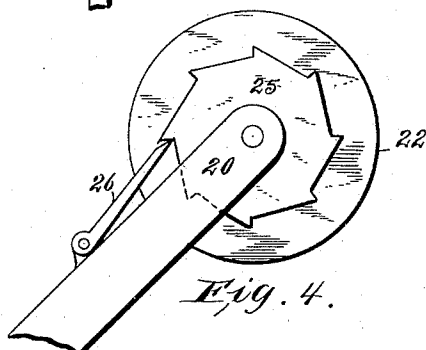
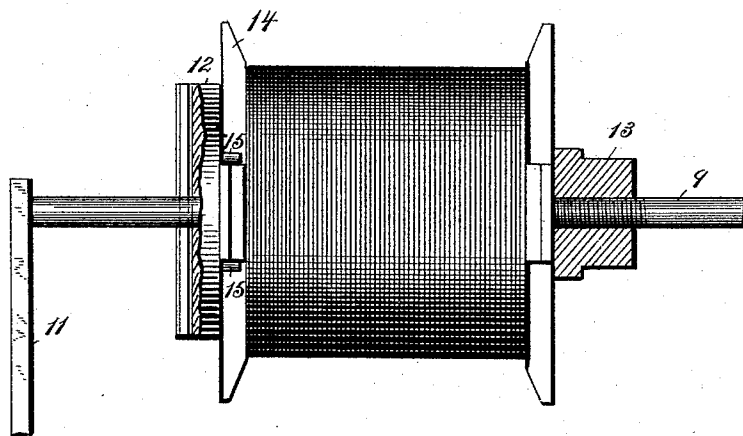


Fig. 4.

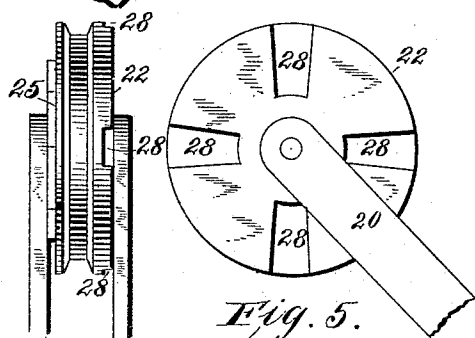


Fig. 5.

Fig. 6.

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UNITED STATES PATENT OFFICE.

JAMES H. ROWLETT AND SIDGMUND ROBINSON, OF LUDLOW, MISSOURI,
ASSIGNORS OF ONE-THIRD TO DANIEL F. ROWLETT, OF SAME PLACE.

MACHINE FOR REELING AND STRETCHING WIRE.

SPECIFICATION forming part of Letters Patent No. 489,877, dated January 10, 1893.

Application filed February 29, 1892. Serial No. 423,238. (No model.)

To all whom it may concern:

Be it known that we, JAMES H. ROWLETT and SIDGMUND ROBINSON, of Ludlow, county of Livingston, and State of Missouri, have invented certain new and useful Improvements in Machines for Reeling and Stretching Wire, of which the following is a specification, reference being had to the accompanying drawings.

The object of our invention is to produce an improved machine for reeling and unreeling wire that is mounted on wheels adapted to carry the reel with the wire with facility from place to place, and upon which the reels may be readily changed; and that is also specially adapted for stretching wire for fence making.

In the accompanying drawings, Figure 1 is a perspective view of our machine in position for stretching wire; Fig. 2 is a side elevation of the same; Fig. 3 is a detail view of the reel detached, shown partly in cross section; Fig. 4 is a view in elevation of one side of the wire stretching pulley, detached; Fig. 5 a similar view of the opposite side; and Fig. 6 a front elevation of the same; Fig. 7 is a view of the clamp looking downward from above and showing the catch moved away from the slot therein; Fig. 8 is a similar view, showing the catch in the position for holding the wire; Fig. 9 is a side elevation of the same.

Referring to the figures on the drawings, 1 indicates a vehicle consisting preferably of two wheels 2 and axle 3. On one side of the axle is carried a loop 4, preferably made of metal, by which the vehicle may be drawn from place to place.

5 indicates an anchor or hook fastened to the loop, by which the vehicle may be fastened in any desired position, either by hooking the anchor in the ground, or to a post.

7 indicates uprights extending from the upper part of the axle and adapted to carry in boxes 8 on their upper ends a reel journal 9. The boxes are provided with hinged caps 10 for readily removing the journal, which is provided with a crank 11 for rotating it.

12 indicates a collar removably secured to the journal, and 13 indicates a nut screw-threaded to the journal near its opposite end,

but far enough removed from it to leave a bearing at the extremity of the journal. Between the collar and the nut, a reel 14 is in practice carried. To prevent the rotation of the reel, when in position, pins 15 are provided on the inner side of the collar to engage with the sides of the reel. When a reel is empty, if the wire is being unreeling from it, or if it is full when the wire is being wound upon it, it may be readily removed by taking off the nut 13, and a new reel may be substituted in its place.

16 indicates a brake-lever pivoted to one of the uprights and adapted to be pressed against the periphery of the collar 12 and control its speed of rotation.

17 indicates a pin or stud for limiting the movement of the brake-lever. Upon the side of the axle, opposite the loop 4, are securely fastened, it may be by the same bolts that secure the loop on the opposite side, two stanchions 18, which are bent at about an angle of forty-five degrees, and carry on their extremities a slotted guide piece 19, through which the wire passes to or from the reel in reeling.

In unreeling, the wire may, for convenience, be passed underneath the slot instead of through it.

The foregoing description comprehends that part of our machine which is adapted for the purpose of simply reeling and unreeling wire for any purpose. To adapt it for use in putting up wire fence, it is necessary for its perfect operation that a vertically adjustable guide be provided so that the strands of wire may be set and stretched at their proper places upon the posts. For this purpose I employ a frame 20 provided on one end with hooks 21, by which it may be readily attached to or detached from the axle 2. Staples or eyes are provided on opposite sides of the uprights, whereby the frame may be fastened to one side or other of the vehicle at pleasure. Upon the outer end of the frame, on a suitable bearing, is carried a grooved pulley 22, in whose groove works a chain or band 23, fastened at one end to the pulley, and at the other to a clamp 24. On one side of the pulley is provided, preferably integral with it, a

ratchet 25 which engages with a pawl 26 that is fastened to the cross-piece 27 of the frame. On the opposite side of the pulley are provided radial grooves 28, into which a wrench
5 may be inserted for rotating the pulley. The clamp may be of any suitable construction, but preferably consists of a curved piece having a slot 29 through its curved end, and an oblique slot or opening 30 in its side through
10 which the wire is passed for stretching.

31 indicates a catch pivoted at one end to the frame of the clamp and having a beveled end 32 that is adapted to catch the wire after it has passed through the hole 30 and bite it
15 against the edge thereof.

33 indicates eyes upon opposite sides of the frame 20, to one of which may be hooked a toothed bar 34. The bar is shifted from one side to the other, according to the position of
20 the frame upon the axle, as above described. The bar extends along the side of one of the uprights through a guide 35, with the bottom of which the teeth are adapted to engage.

It will be readily perceived that by raising
25 the frame the toothed bar may be moved notch by notch, and upon engaging with the side of the guide-piece will hold the frame securely in its fixed position. By releasing the toothed bar from engagement with the
30 guide-piece the frame may be swung downwardly upon its pivot until the last tooth of the bar is reached by which it may be held in position. By this means the position of the pulley may be adjusted, so that the di-
35 rection of pull upon a wire to be stretched may be coincident with the position of the wire upon the post to which it is to be attached.

36 indicates a wrench for operating our
40 machine. It is provided at one end with a point adapted to fit the radial grooves in the sides of the pulley, and is adapted to rotate the pulley in either direction. The sides of the grooves and of the end of the wrench may
45 be suitably beveled or dovetailed so as to hold the wrench in position. Upon the opposite

end of the wrench it is provided with jaws 37 and 38 at right angles to each other and with a hammer head 39.

What we claim is:

1. In a reeling machine, the combination with the axle and its wheels, of the inclined stanchions on the rear portion of the axle having a slotted guidepiece mounted on their upper extremities, the anchor loop, on the front portion of the axle, and bolts passing through the loop and axle and through the lower ends of the stanchion, substantially as and for the purposes specified.

2. In a reeling machine, the combination with the axle having uprights mounted thereon, of fastening devices on each end of the axle and on opposite sides of the uprights, an adjustable frame having its lower ends provided with means for engaging the fastening devices, a peripherally grooved pulley journaled in the upper ends of said frame, having on one side a ratchet wheel and on its opposite side radial grooves, and means for engaging the grooves to rotate the pulley, substantially as and for the purposes specified.

3. In a reeling machine, the combination with an axle having uprights mounted thereon, of a journal on said uprights; a reel with wire on said journal; an adjustable frame on the axle with peripherally grooved pulley, a ratchet wheel on one side of the pulley, and on its opposite side radial grooves; a chain or rope connected to the groove of the pulley; a clamp connected to the chain, having an end slot and an oblique side opening for engaging the wire from the reel; and means connected to said clamp for holding said wire in said opening, substantially as and for the purposes specified.

In testimony of all of which we have hereunto subscribed our names.

JAMES H. ROWLETT.
SIDGMUND ROBINSON.

Witnesses:

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C. O. DENNY.