(No Model.)

G. S. BENEDICT.

DEVICE FOR TAKING DOWN AND PUTTING UP AND STRETCHING WIRE.

No. 339,256. Patented Apr. 6, 1886.

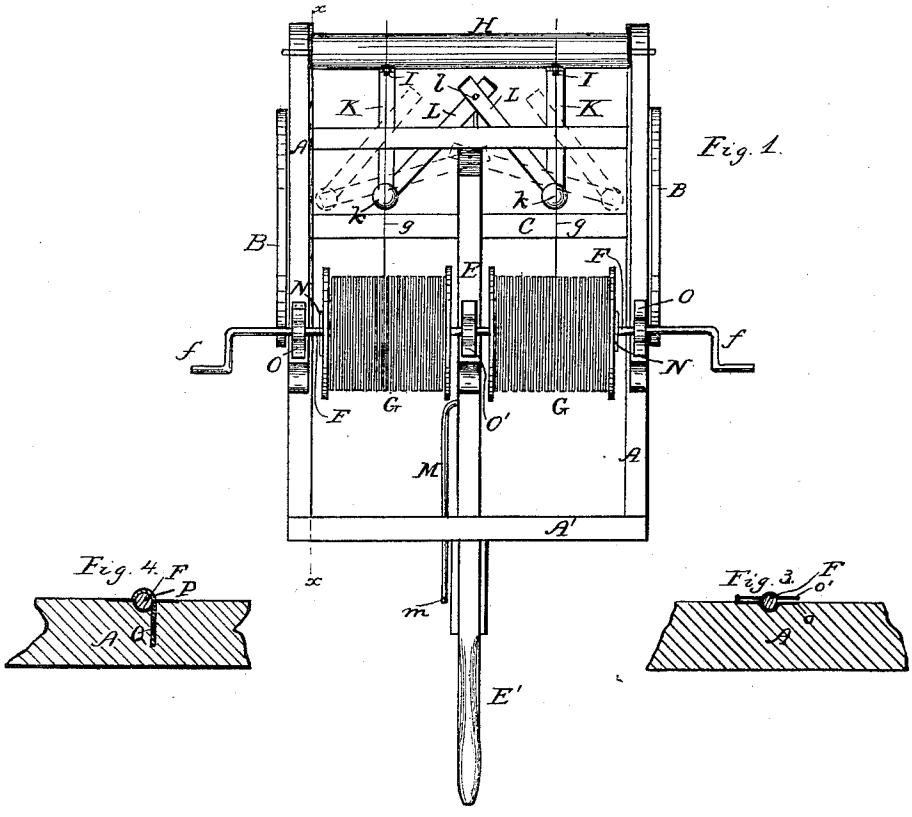


Fig. 1.

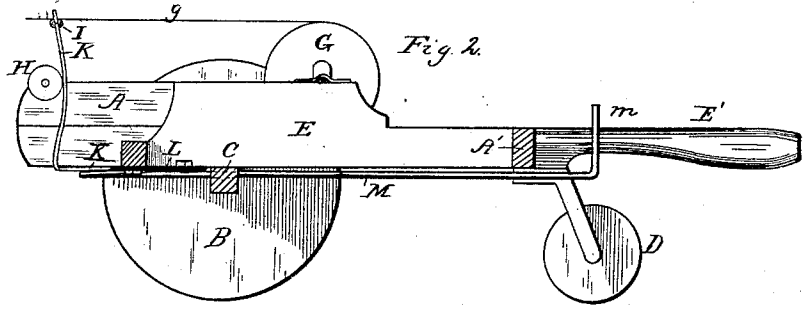


Fig. 2.

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UNITED STATES PATENT OFFICE.

GEORGE S. BENEDICT, OF MAYFLOWER, ARKANSAS.

DEVICE FOR TAKING DOWN AND PUTTING UP AND STRETCHING WIRE.

SPECIFICATION forming part of Letters Patent No. 339,256, dated April 6, 1886.

Application filed December 8, 1885. Serial No. 185,201. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. BENEDICT, a citizen of the United States, residing at Mayflower, in the county of Faulkner and State of Arkansas, have invented certain new and useful Improvements in Devices for Taking Down and Putting Up and Stretching Wire, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain improvements upon a device adapted to carry the spools or reels upon which wire is wound, and by means of which the wire is stretched when being put up, or by means of which it is wound upon the reels or spools when being taken down from the supporting posts or poles, such device being particularly adapted for use in the construction of wire fences or in the taking down of the same.

Figure 1 is a top plan view of a device embodying my invention. Fig. 2 is a longitudinal section on the line *x x*, Fig. 1, one of the spools being removed. Figs. 3 and 4 are sectional views showing the separable bearings for the spool-shafts.

In the drawings similar letters of reference indicate like parts.

A A represent the side bars or sills of the main frame, they being connected together at their rear ends by a cross-bar, A′, and nearer their front ends by the cross-bar C, which also may serve as the axle upon which are mounted the supporting-wheels B.

D is another supporting-wheel, mounted at the rear end of the machine, it being shown as supported in a bracket carried by the cross-bar A′. It may be, if desired, swiveled, so as to turn easily.

E is a bar situated upon the central longitudinal line of the machine, and connecting the front and rear cross-bars of the frame, it being extended some distance in rear of the machine, forming a handle, E′, by which it is steered.

F F are shafts supported in bearings O O′, and each extending from the central bar, E, to opposite sides of the frame, where they are provided with cranks *f*, by which the shafts may be rotated.

G G are spools or reels, adapted to be placed upon the shafts and to be rotated thereby, and upon which the wire *g* is wound.

I have shown and will now describe the devices which guide the wire as it is passing to or from the spools.

H is a rod or roller supported in the front ends of the side pieces, A. This rod or roller may be either securely fixed in the side pieces or arranged to rotate therein, as may be found the more desirable.

I I are rollers or other guides, over which the wire passes between the spools G and the rod H. In order that the wire may be wound evenly upon the spools, I have made these guides I adjustable toward and from the sides of the frame, the adjusting devices being under the control of the operator.

K K are rods or bars pivoted to the frame and supporting the guides I, and connected at *k k* by hinge-connections with bars or rods L L, which latter are united by a flexible joint at *l*.

It will be seen that if the inner ends of the links or bars L are moved forward the rods K and their guides I will be drawn inward, thus causing the wire to be wound upon the inner ends of the spool, and that as the said inner ends of the links L move toward the rear the guides will be forced farther and farther outward until the guides are opposite the outer ends of the spool. In order to readily make these movements, I have connected an operating-rod, M, with the links at their pivotal point *l*, which rod extends rearward along bar E E′ to near the rear end thereof, where it is provided with a handle, *m*. Thus it will be seen that the person who is moving and guiding the supporting-frame can at the same time move the guides so that the wire shall be wound evenly upon the spools, or, if the wire is being unwound, move the guides so that they shall at all times be directly in front of that portion of the spool from which the wire is passing.

I do not wish to be limited to connecting both guides I and their adjusting mechanisms with a single operating-rod, as they may be made separately adjustable.

N N are flanges secured to the shafts F, and operating to assist in securing the spools thereto.

The outer bearings or boxings, O, are each composed of two separable members, *o o′*, the latter being preferably hinged to the former.

This allows the upper member of the bearing to be swung upward or to one side, leaving the shaft F free to be removed when it may be necessary, for the changing of one spool for another, as circumstances may require; or, in place of hinging the two members of the bearing together, I may employ a hook, P, to hold the shaft in place. The longer leg of the hook passes through the bearing and into or through the side piece, A, and is perforated, through which perforation passes a key, Q, for holding it in place. The other bearings, O', need not be made separable, as the shafts can be slipped directly into them endwise without requiring separation of one part from another.

If desired, ratchets and pawls may be applied to the shafts F.

I am aware that machines for reeling fence-wire, hose-carriages, and similar devices have been provided with adjustable guides, over which passes the wire or hose wound upon the reels or spools carried by such machine, and hence I do not claim, broadly, an adjustable guide, over which the wire from the spool passes to or from the fence-post or other object to which it is to be attached.

What I claim is—

1. The combination of the supporting-frame, the shafts upon which the spools are mounted, the guides I, supports K for said guides, and links L L, connected to supports K at their outer ends and to each other at their inner ends, substantially as set forth.

2. The combination of the supporting-frame having the guiding and steering handle E', the shaft upon which the spools are mounted, the guides I, over which the wire is delivered to the spools, mechanism for moving the guides in lines substantially parallel with the axes of the spools, and the rod M, by which said mechanism is operated, extending along said handle E', substantially as set forth.

3. The combination of the supporting-frame, the shafts adapted to support two spools carrying wire, guides I, one situated opposite to each spool, and mechanism, substantially such as described, for moving said guides simultaneously, substantially as set forth.

4. The combination of the supporting-frame, a spool-supporting shaft mounted therein, a guide, I, opposite said spool-supporting shaft, a bar or guide, K, which carries the guide and is pivoted upon the frame, and a handle, by which said bar K is moved to change the position of the guide, substantially as set forth.

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

GEORGE S. BENEDICT.

Witnesses:
GEO. DONAGHEY,
J. H. HARTJE.