No. 676,602. Patented June 18, 1901.

W. H. DORAN.

APPARATUS FOR REELING WIRE.

(Application filed July 12, 1900.)

(No Model.)

Fig. 1.

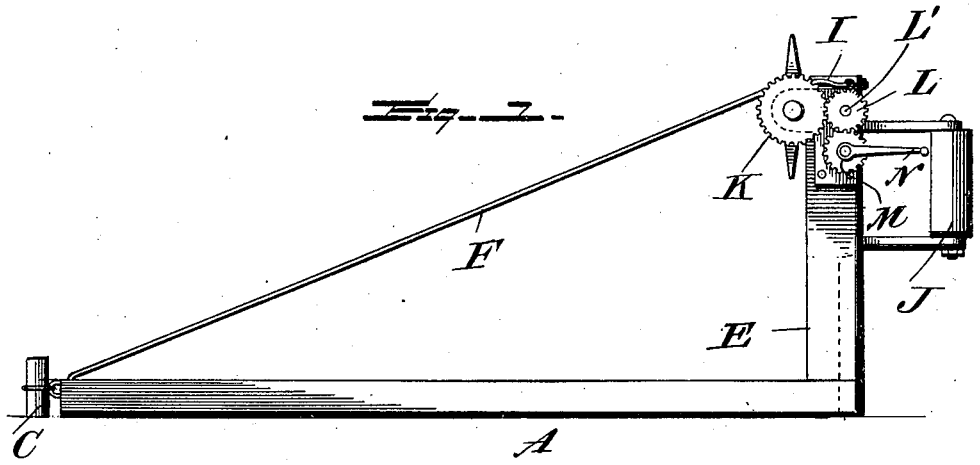


Fig. 2.

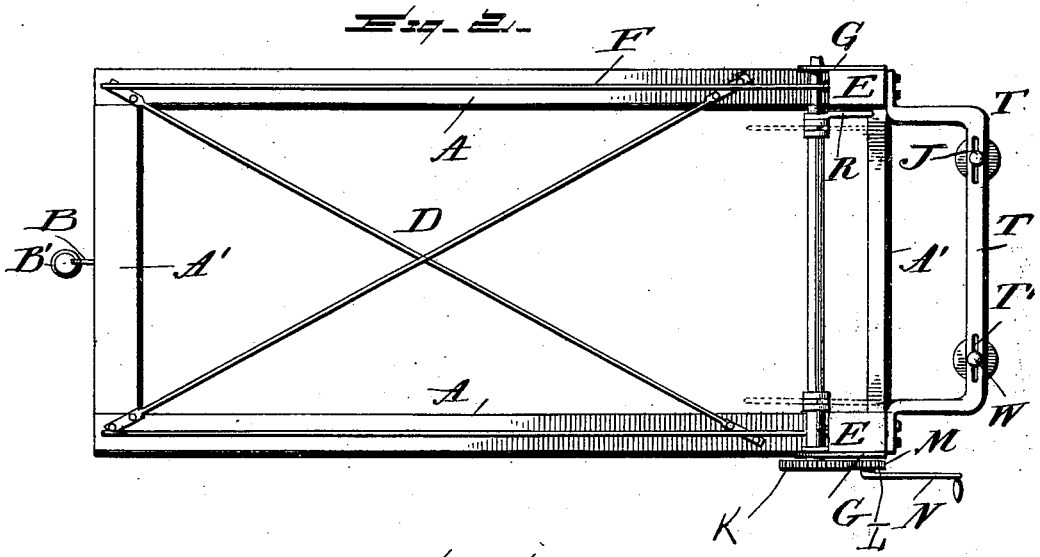
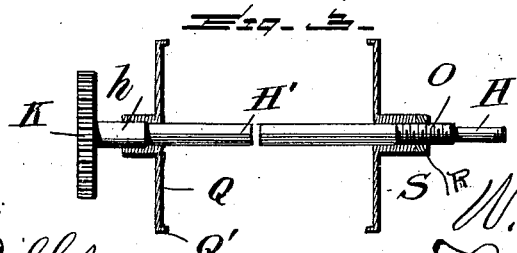


Fig. 3.



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APPARATUS FOR REELING WIRE.

SPECIFICATION forming part of Letters Patent No. 676,602, dated June 18, 1901.

Application filed July 12, 1900. Serial No. 23,374. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. DORAN, a citizen of the United States, residing at Hollandale, in the county of Iowa and State of Wisconsin, have invented certain new and useful Improvements in Apparatus for Reeling Wire; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements for spooling or reeling up wire in removing fences; and it consists in the provision of a frame or rack which is adapted to be anchored at one end to a post, which may be driven in the ground, while its opposite end has upright posts supporting the winding spool or drum, and suitable anti-friction-rollers held in brackets mounted on the upright posts, so as to guide the wire as it is being wound upon the reel.

To these ends and to such others as the invention may pertain, the same consists, further, in the novel construction, arrangement, and combination of parts, as will be hereinafter more fully described, and then specifically defined in the appended claim.

My invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form part of this application, and in which drawings similar letters of reference indicate like parts throughout the several views, in which—

Figure 1 is a side elevation of my improved apparatus for winding wire. Fig. 2 is a top plan; and Fig. 3 is a vertical central section through the winding-drum, showing the arrangement of the parts connected thereto.

Reference now being had to the details of the drawings by letter, A A designate the two longitudinal base-plates of the frame, which are connected together at their ends by means of cross-beams A'. At one end of the frame is fastened a staple B, which is connected to a ring B', which ring is adapted to be placed over a post C, which has been previously driven into the ground and forms a suitable anchorage for the frame. Suitable base-rods D are provided, which cross each other in diagonal directions and have their ends secured to the upper faces of the base-plates. At the opposite end of the frame to that which is anchored rise vertical posts E, which are braced by means of brace-rods F, which run from the tops of said upright posts E to the opposite ends of the beams A A. Mounted in suitable brackets G on the outer faces of the upright beams E is a shaft H, which is squared, as at H', and on one end is mounted a gear-wheel K, which is adapted to mesh with a second gear-wheel L, mounted on a stub-shaft L', carried on the outer face of one of the upright beams E. A third gear-wheel M is mounted on the stub-shaft directly underneath the gear-wheel L, and the teeth of said wheels L and M mesh with each other, and to the stub-shaft on which the gear-wheel M is mounted is keyed or otherwise fastened an operating crank or handle N. Mounted on the shaft H is a winged collar Q, the hub portion of which is apertured, said aperture being circular in outline a portion of its length, terminating in a shoulder, beyond which said aperture is square-outlined to fit over the squared portion H' of the shaft and cause the two to rotate together, the round end *h* merely forming a bearing-surface for the shaft. The opposite end of the shaft adjacent to its journaled portion is screw-threaded, as at O, and a second winged collar S, which has the ends of its arms bent at right angles similarly to those of collar Q, as shown at Q' in Fig. 3 of the drawings, is mounted on the shaft, and a tightening-nut R (shown in Fig. 2 of the drawings) is adapted to fit over the outer end of the threaded portion O and is operated by means of a suitable handle, as shown. By screwing this nut against the outer hub portion of the winged member S the latter may be forced inward and against a spool, which may be held between said winged washers.

Mounted on the outer faces of the upright posts E are two brackets T, which have elongated slots T' therein, and mounted in said slots are the vertically-disposed shafts W, which may be laterally adjusted in the slots. Mounted on said shafts or rods W are the

antifriction-rollers J, between which the wire is fed to the spools which are carried upon the shafts H and between the winged disks or washers.

In operation the wire to be reeled up is fastened to the spool, which is not shown in the drawings, but which is carried on the squared portion of the shaft, and by means of antifriction-rollers the wire is prevented from coming in contact with the frame of the apparatus during the reeling up of the wire. Preparatory to reeling up the wire the ring at the opposite end of the frame is passed over the stake C, and the reel is prevented from unwinding by means of a dog I, engaging the teeth of the gear-wheel K.

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

In an apparatus for reeling wire, the stationary base anchored at one end, upright posts E rising from the opposite end of said base, the parallel brackets T having angled ends which are bolted to the sides of said uprights, thus securely bracing the latter, the guide-rollers mounted in registering apertures in said brackets, the reel-shaft carried by said uprights, as set forth.

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

WILLIAM H. DORAN.

Witnesses:
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