

(No. Model.)

J. HAUSERMAN.
BARE WIRE REELING MACHINE.

2 Sheets—Sheet 1.

No. 579,752.

Patented Mar. 30, 1897.

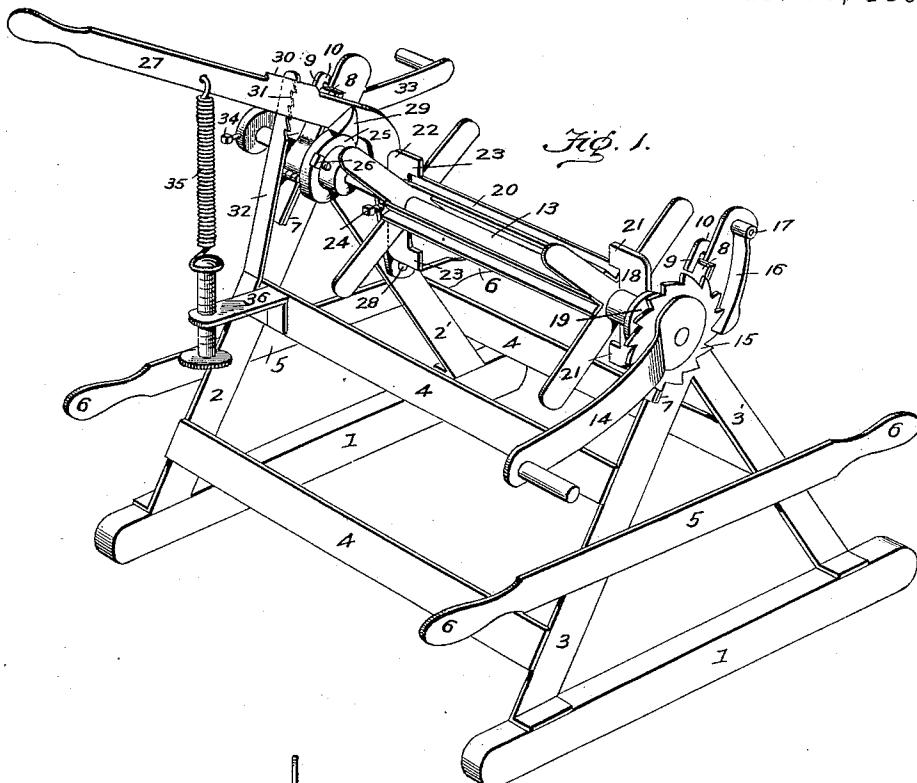


Fig. 1.

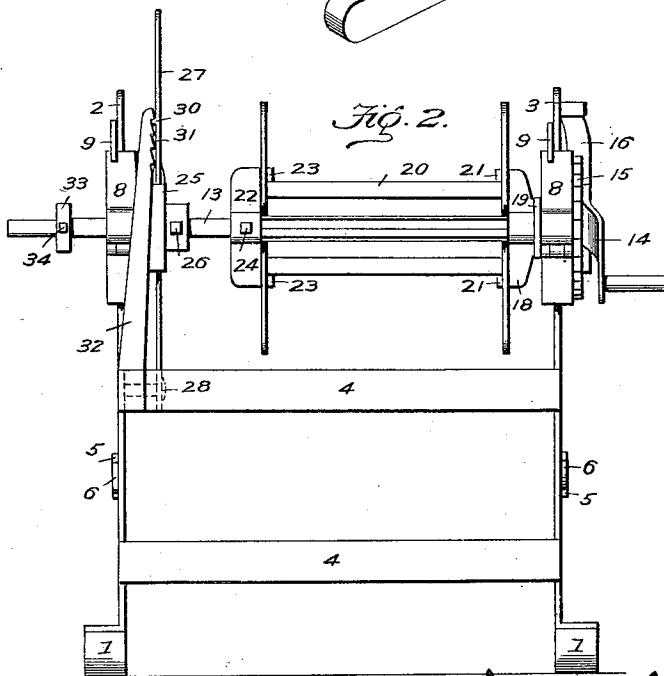


Fig. 2.

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Fig. 3.

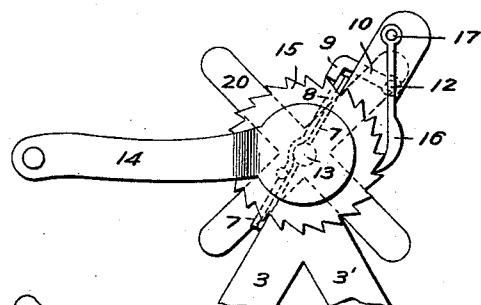


FIG. 4.

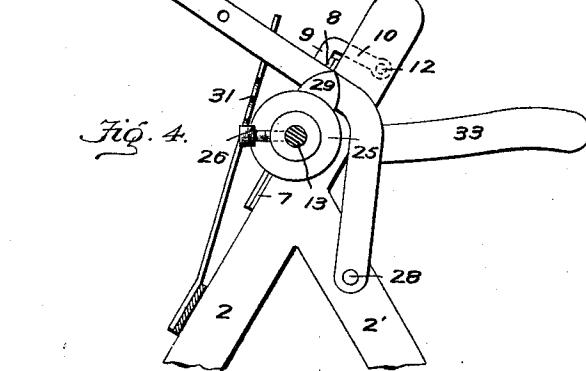
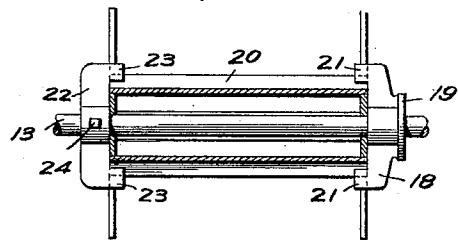


Fig. 5.



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UNITED STATES PATENT OFFICE.

JACOB HAUSERMAN, OF EUSTIS, NEBRASKA.

BARB-WIRE-REELING MACHINE.

SPECIFICATION forming part of Letters Patent No. 579,752, dated March 30, 1897.

Application filed November 28, 1896. Serial No. 613,805. (No model.)

To all whom it may concern:

Be it known that I, JACOB HAUSERMAN, a citizen of the United States, residing at Eustis, in the county of Frontier and State of Nebraska, have invented certain new and useful Improvements in Barb-Wire-Reeling Machines; 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.

My invention has relation to improvements in portable reels for handling barbed wire used in constructing fences; and the object of the invention is to provide a device upon which the spool of barbed wire is mounted just as it is received from the factory and from which it may be unwound as it is needed for use. When a fence of this class is to be taken down, an empty spool is placed in the machine and the wire wound on it, and when one spool is filled with wire it may be removed and another empty one substituted.

To these ends the novelty consists in the construction, combination, and arrangement of the several parts of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same figures of reference indicate the same parts of the invention.

Figure 1 is a perspective view of my improved barbed-wire-reeling machine. Fig. 2 is a front elevation of the same. Fig. 3 is an end view. Fig. 4 is a transverse section on the line of the brake-lever, and Fig. 5 is a longitudinal section on the line of the reel-shaft.

1 1 represent the usual sled-runners, upon which are mounted the converging standards 2 2' and 3 3'.

4 4 represent longitudinal braces, and 5 5 are transverse braces, the projecting ends of which are formed with grips 6 for conveniently handling the machine.

7 7 are stationary bearing-boxes fixed in the upper ends of the standards 2 and 3, and 8 8 represent hinged caps pivoted to the lower ends of said boxes, the upper or free ends of said caps being held in place on the boxes by the angular arm 9 of a lever 10, pivoted on a bolt 12 near the upper end of the standards 2 and 3.

13 represents a longitudinal horizontal shaft detachably journaled in the boxes 7 7, and one end of said shaft is provided with a fixed 55 crank 14, the hub of which forms an integral ratchet-wheel 15, the teeth of which travel in the path of a gravity retaining-pawl 16, pivoted on a bolt 17 in the upper end of the standard 3.

18 is a fixed carrier on the shaft 13, its hub being formed with an integral washer 19, resting on one side of the contiguous bearing-box 7, and with the ratchet 15 on the other side serves to prevent end play of the shaft 65 without interfering with its rotation.

20 represents the ordinary skeleton spool upon which the wire is wound at the factory, and when it is mounted on the shaft the angular fingers 21 21 of the fixed carrier 18 extend between the crossed end arms of said spool to carry it around with the shaft.

22 represents an adjustable removable carrier, its angular fingers 23 23 extending between the opposite crossed end arms of the 75 spool to assist the fixed carrier in revolving the spool. The hub of the carrier 22 is provided with a set-screw 24, by means of which it is adjustably secured to the shaft.

25 represents a brake-wheel removably secured on the shaft by a set-screw 26, and 27 is a brake-lever fulcrumed on a stud-bolt 28 on the standard 2'. It is provided with an arc-shaped brake-shoe 29, which is in operative contact with the brake-wheel. The 85 side of this brake-lever is provided with a rib 30, which is arranged to engage the teeth 31 on the rack-bar 32 to lock the brake-lever when necessary.

33 represents a detachable crank-handle on 90 the other end of the shaft, being removably held in place on said shaft by a set-screw 34 in its hub.

35 is a spiral spring secured at one end to the brake-lever, and having its opposite end 95 detachably secured to the upper end of a threaded rod passing through an arm 36, secured to the brace 4, by means of which a graduated amount of resistance may be applied to the shaft to prevent the reel unwinding too rapidly or "overrunning" itself while the wire is being drawn off.

By throwing the brake-lever back out of the way and raising the levers 10 the cap-

pieces 8 8 are swung down out of the way of the shaft, which can then be lifted out of the bearing-boxes.

The crank 33, brake-wheel 25, and the carrier 22 are removed from the shaft and a spool of wire mounted on the shaft or removed therefrom, as the case may be. The carrier, brake-wheel, and crank are then replaced and the shaft with the spool on it placed in the machine for manipulation. It will thus be seen that the device is equally as convenient in building a new fence as it is in taking down an old one.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

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

1. A wire-reeling machine, comprising the converging standards, the bearing-boxes 7 7 fixed in the upper ends of said standards and provided with the hinged caps 8 8 and the cap-locking levers 10 10, in combination with the horizontal shaft 13 journaled in said boxes, and provided with the fixed crank-handle 14, the fixed carrier 18, and the removable carrier 22, substantially as shown and described.

2. A wire-reeling machine, comprising the converging standards, the bearing-boxes 7 7 secured in the upper ends thereof, and provided with hinged caps 8 8, the cap-locking

levers 10 10, and the pivoted gravity-pawl 16, in combination with the removable horizontal shaft 13 journaled in said bearing-boxes, and provided with the fixed crank 14, the hub of which is formed with an integral ratchet-wheel 15, the carrier 18 rigidly fixed on said shaft, the carrier 22 removably secured on said shaft by a set-screw 24, the removable brake-wheel 25, and the pivoted brake-lever 45 27 fulcrumed on the bolt 28, secured to the standard 2', substantially as shown and described.

3. A wire-reeling machine, comprising the standards, the bearing-boxes fixed in the upper ends thereof and provided with hinged caps, the free ends of which are secured in place by the angular arms 9 of the levers 10, the gravity-pawl pivoted on the upper end of one of said standards, and the brake-lever 55 pivoted on another of said standards, in combination with the removable shaft provided with the fixed crank, the hub of which forms an integral ratchet-wheel, a carrier 18 rigidly fixed on said shaft, and formed with integral 60 angular fingers 21 21, an adjustable carrier 22 removably secured on said shaft by a set-screw 24, and a removable brake-wheel 25, the hub of which is provided with a set-screw 26, substantially as shown and described. 65

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

JACOB HAUSERMAN.

Witnesses:

E. P. DUNLAP,
J. WAGNER.