No. 730,427. PATENTED JUNE 9, 1903.

A. O. WILSON & J. S. BROWN.

WIRING MACHINE.

APPLICATION FILED DEC. 31, 1902.

NO MODEL.

Fig. 1.

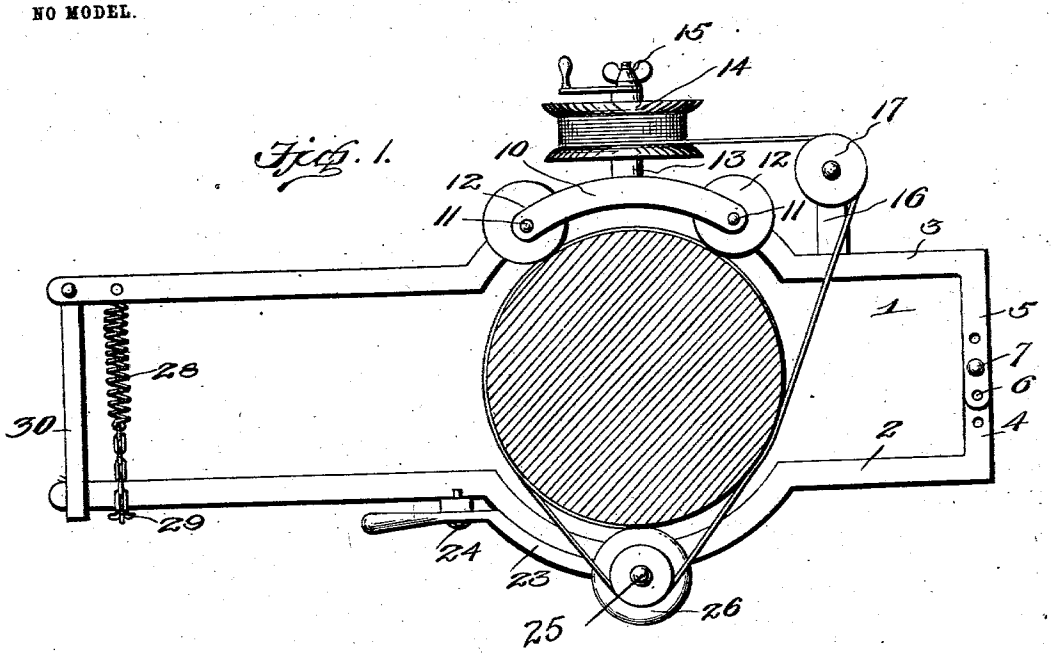


Fig. 2.

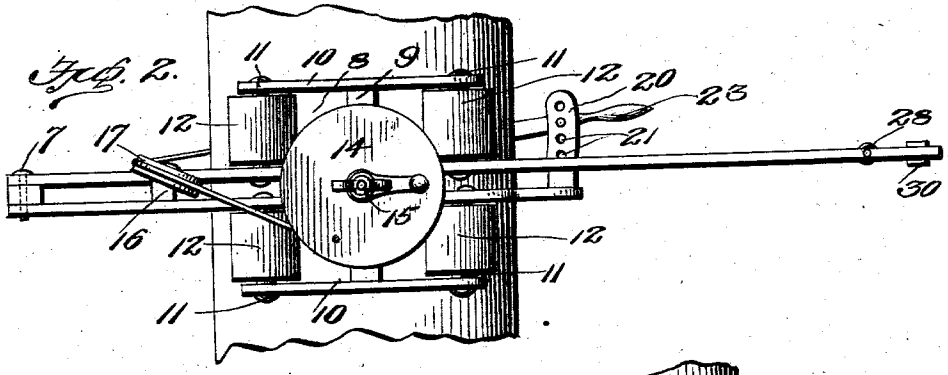
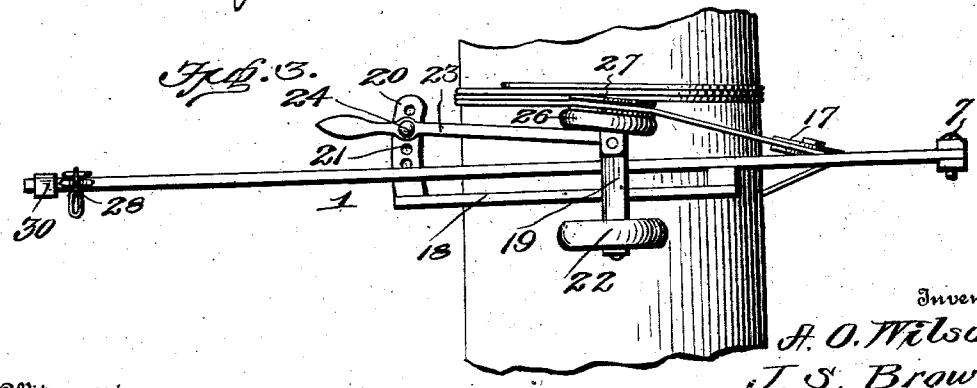


Fig. 3.



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No. 730,427. Patented June 9, 1903.

UNITED STATES PATENT OFFICE.

ALBERT ORTON WILSON AND JOSEPH S. BROWN, OF LINCOLN, NEBRASKA.

WIRING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 730,427, dated June 9, 1903.

Application filed December 31, 1902. Serial No. 137,352. (No model.)

To all whom it may concern:

Be it known that we, ALBERT ORTON WILSON and JOSEPH S. BROWN, citizens of the United States, residing at Lincoln, in the county of Lancaster and State of Nebraska, have invented certain new and useful Improvements in Wiring-Machines; and we 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.

Our invention is an improved wiring-machine adapted for wrapping wire around a telegraph, telephone, electric-light, awning, sign, hitching, or other post to protect the same from being gnawed by horses, cut by malicious persons, or otherwise similarly damaged; and it consists in the peculiar construction and combination of devices hereinafter fully described and claimed.

The object of our invention is to provide a simple, cheap, light, and easily-operated machine of this character.

In the accompanying drawings, Figure 1 is a top plan view of our improved wiring-machine, showing the same in operative position on a post, the latter being shown in cross-section. Fig. 2 is a side elevation of the same, and Fig. 3 is a similar view showing the opposite side thereof.

In the embodiment of our invention here shown we provide a frame 1, which comprises a pair of bars 2 3. Each of the said bars is provided at a point intermediate its ends with a lateral offset portion, as shown in Fig. 1. The bar 2 has at one end an inwardly-extending arm 4. The bar 3 has a similar arm 5. Each of the said arms is provided with a plurality of adjusting-openings 6. The said arms are adapted to overlap each other, and a pivot-bolt 7 is inserted appropriately in two of the openings of the said arms, and thereby the bars 2 3 of the frame are pivotally connected together at one end and are also adapted to be adjusted toward and from each other to narrow or widen the space between them, according to the size or diameter of the post on which the machine is to operate.

On the curved offset portion of the bar 3 is a frame 8, which comprises a vertical yoke 9, attached to the said bar 3, and a pair of horizontally-disposed bearing-arms 10 at the upper and lower ends of the said yoke. The said bearing-arms and the said bar 3 carry the axles 11 of antifriction-rollers 12, which are adapted to engage one side of the post, as shown in Figs. 1 and 2. From the outer side of the yoke 9 projects a spindle 13, on which a reel 14 is journaled, the said reel being wound with wire. On the spindle 13 is a tension lock-nut 15 to control the rotation of the reel and impart the requisite tension to the wire as the same is unwound therefrom. The said bar 3 is further provided with an outstanding arm 16, on which is carried a revoluble peripherally-grooved direction sheave or pulley 17. To the under side of the offset portion of the bar 2 is secured a similarly-shaped frame 18, which has a vertical portion 19 on its outer side at its center and is provided at one end with a post 20, which is provided with a plurality of adjusting-openings 21. At the lower end of the part 19 is journaled a roller 22, which is adapted to bear against the post on the side opposite that engaged by the rollers 12, and to the upper end of the said part 19 is pivoted an adjusting-arm 23, which sweeps on the adjusting-post 20, and is adapted to be connected thereto at any desired angle by means of a pin 24, which passes through an opening in said arm and through one of the adjusting-openings 21, and at the inner end of the said arm is an upstanding spindle 25, on which is journaled a roller 26, adapted to bear against the post and to travel thereon and provided with a peripheral groove 27 for the reception of the wire. It will be understood that by means of the pivoted adjusting-arm 23 the roller 26 may be disposed at any desired angle or pitch with reference to the post on which the machine operates to cause the wire to be wrapped around the post at any desired pitch. The free ends of the bars 2 3 are connected together while applying the machine to a post by means of a spring 28, which is attached to one of the said bars and has a chain 29 to engage and disengage the other and a link 30, which is attached to one of said bars and engaged by the other. Having adjusted the machine on the post and attached one end of the wire thereto, the wire having been engaged with the guide-roller 26 and direction-sheave 17, the machine is caused to rotate

around and on the post, and thereby to dispose the wire spirally on the post as the same is paid out from the reel. By appropriately fixing the tension device 15 the wire may be drawn as tightly as may be desired around the post, and when the post has been thus wired to the desired extent the wire is fastened to the post and then cut to permit of the removal of the machine from the post.

From the foregoing description, taken in connection with the accompanying drawings, the construction, mode of operation, and advantages of our invention will be readily apparent, it is thought, without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A frame having bearing-rollers to engage opposite sides of a post, whereby the frame may be revolved thereon, said frame being further provided with a wire-carrying reel, and a guiding-roller to engage the post and mounted for angular adjustment with respect to the bearing-rollers, to direct the frame spirally on the post, substantially as described.

2. A frame having bearing-rollers to engage opposite sides of a post, whereby the frame may be revolved thereon, said frame being further provided with a wire-carrying reel, and a guiding-roller to engage the post, and mounted angularly with respect to the bearing-rollers, to direct the frame spirally on the post, substantially as described.

3. In a machine of the class described, a frame comprising two sections hinged together at one end and having a spring detachably connecting the opposite ends of said sections, said frame being adapted to engage opposite sides of and to rotate on a post, and a reel carried by said frame, substantially as described.

4. In a machine of the class described, a frame having rollers adapted to engage opposite sides of a post and adapt the frame to revolve thereon, a wire-reel carried by said frame, a direction-sheave, and a guide-roller, the latter and the direction-sheave being adapted to engage the wire between the reel and the post, substantially as described.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

ALBERT ORTON WILSON.
JOSEPH S. BROWN.

Witnesses:
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