W. W. HARDY.

APPARATUS FOR APPLYING STAY WIRES TO FENCES.

APPLICATION FILED NOV. 2, 1908.

920,737.

Patented May 4, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

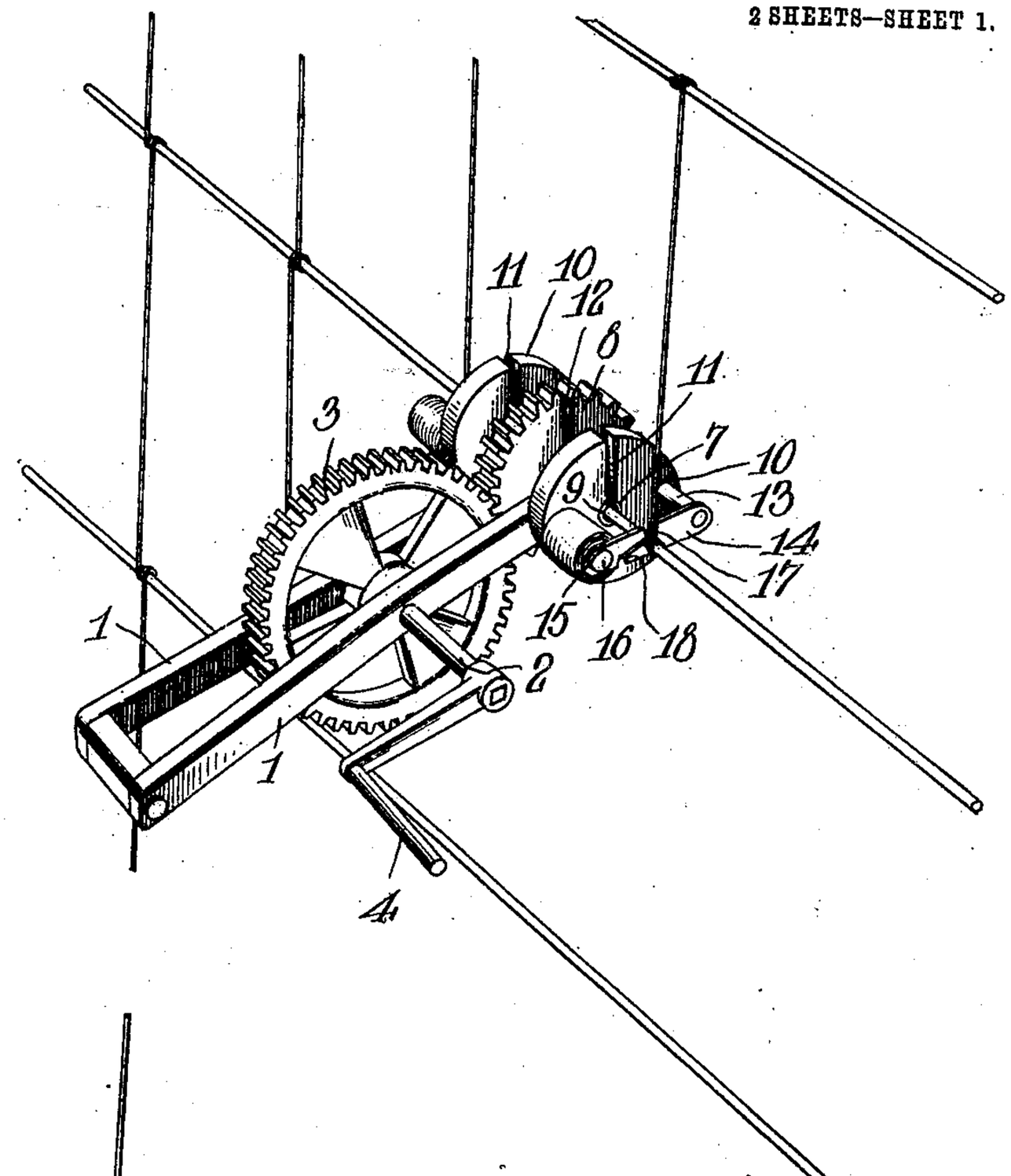


Fig. 2.

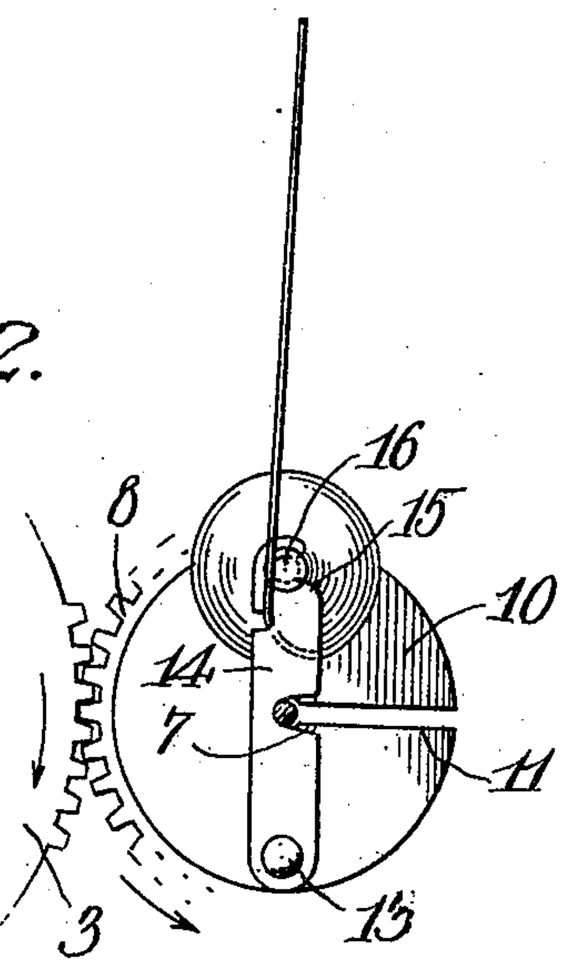
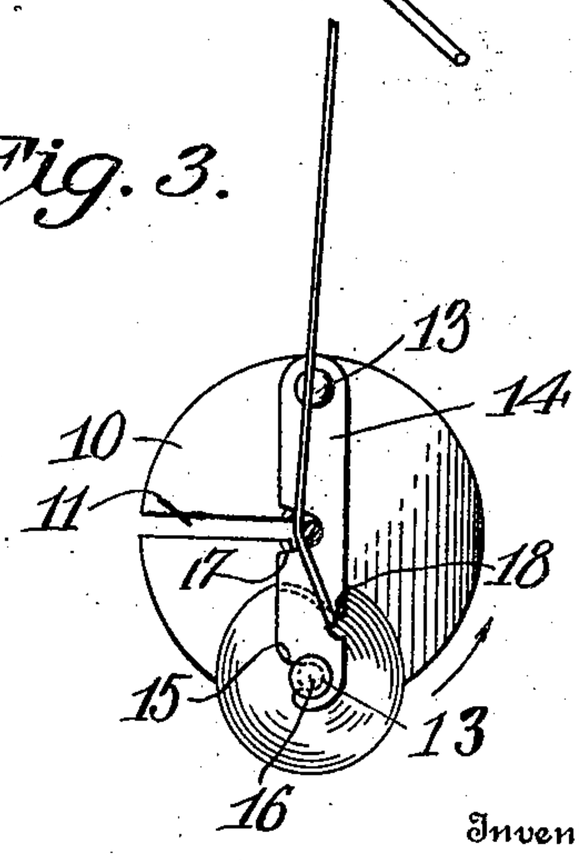


Fig. 3.



Witnesses

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Fig. 4.

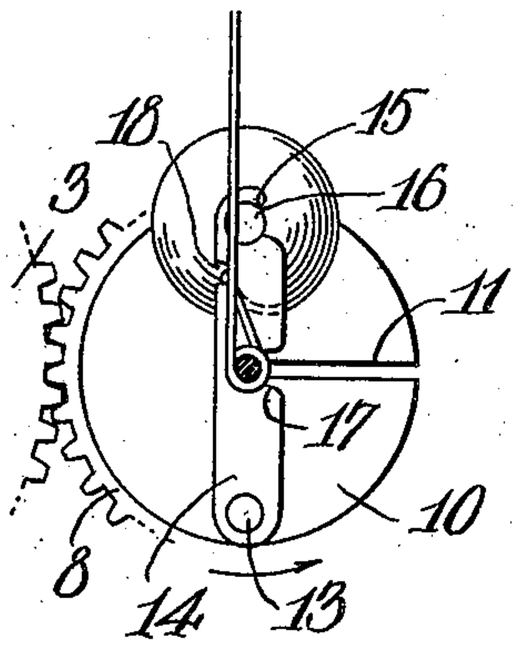


Fig. 5.

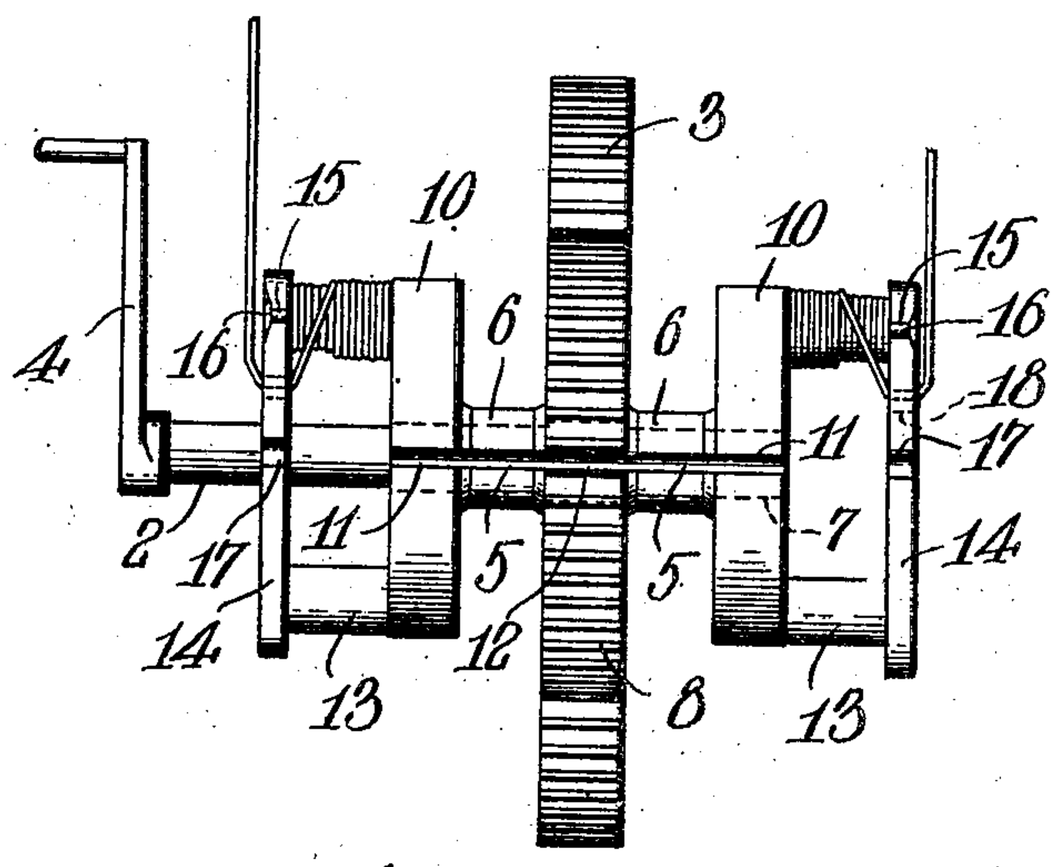


Fig. 6.

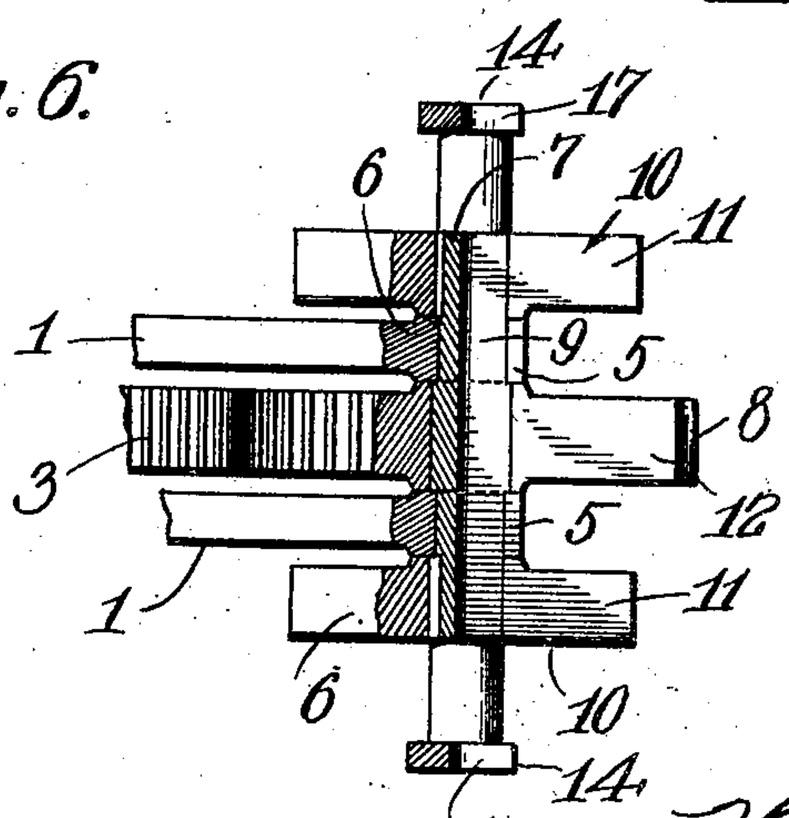
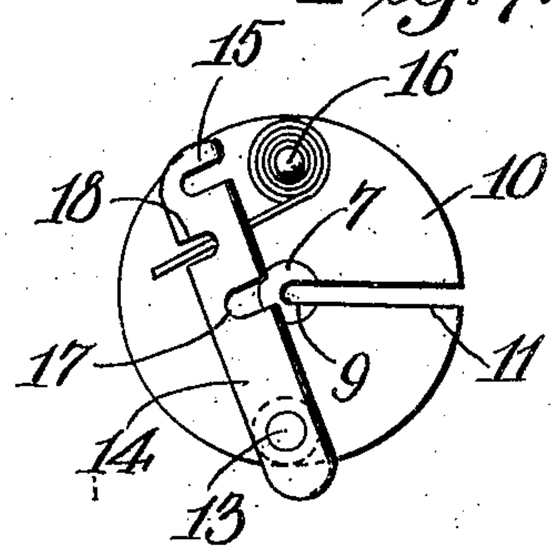


Fig. 7.



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UNITED STATES PATENT OFFICE.

WALTER W. HARDY, OF CLINTON, MISSISSIPPI.

APPARATUS FOR APPLYING STAY-WIRES TO FENCES.

No. 920,737. Specification of Letters Patent. Patented May 4, 1909.

Application filed November 2, 1908. Serial No. 460,665.

To all whom it may concern:

Be it known that I, WALTER W. HARDY, a citizen of the United States of America, residing at Clinton, in the county of Hinds and State of Mississippi, have invented certain new and useful Improvements in Apparatus for Applying Stay-Wires to Fences, of which the following is such a full, clear, and exact description as will enable others skilled in the art to which it appertains to make and use the same.

This invention is an apparatus for applying stay-wires to wire fences and consists in certain novel features which will be hereinafter first fully described and then particularly pointed out in the claims.

In the accompanying drawings, which fully illustrate the invention, Figure 1 is a perspective view showing the device in its operative position. Figs. 2, 3 and 4 are side views showing the successive positions of the reel or twister in the act of applying the stay-wire. Fig. 5 is an end view of the device. Fig. 6 is a plan view of the same with parts broken away, and Fig. 7 is a side view of a twister disk.

The frame of the device consists of two side bars, 1, rigidly connected at their outer ends. At an intermediate point of the length of these bars I journal the driving shaft, 2, on which and between the bars is secured the driving cog wheel, 3, the shaft being provided with a handle or crank arm, 4, at one end. In the inner ends of the bars, I form open-ended slots, 5, which lead into bearings, 6, and in the said bearings a shaft, 7, is journaled, the said shaft being formed with a central angular portion, by preference, upon which is seated a toothed disk, 8, which will lie between the ends of the bars when the parts are assembled. The shaft 7 is constructed with a longitudinal groove or slit, 9, which extends radially to the center of the shaft and permits the shaft to fit over the strand of the fence. On the ends of this shaft I secure by keys or other suitable fastenings the twisting disks, 10, which are provided with radial slits, 11, registering with the longitudinal slit 9 in the shaft, and the central toothed disk 8 is likewise provided with a radial slit, 12, registering with the slit in the shaft so that the shaft and the parts carried thereby may be engaged over the wire strand of the fence and rotate about the same as a center when the driving wheel is rotated, the driving wheel being in mesh with the toothed disk, as will be readily understood. The twister disks are provided on their outer faces with diametrically opposite pins, 13, which may be connected by a latch or bar, 14, which will stand at right angles to the slit in the disk when it is extended between the said pins. The latch is pivoted on one of the pins and is provided in one edge near its opposite end with a notch, 15, adapted to engage a headed pin or lug, 16, on the opposite pin 13 so as to hold a roll of wire thereon. The latch is further provided with a notch, 17, in one edge at its center which registers with the central opening in the shaft carrying the twisting devices and on its opposite edge the latch is provided with a notch, 18, between its center and its end.

The construction of the device being thus made known, the operation will be readily understood. The stay-wires are formed in rolls and a roll is placed over the carrying pin on each twister disk. The latch is then engaged over the said pin so as to hold the roll of wire thereon, after which the ends of the wires of each roll are manually fastened to the top strand of the fence. The device is then brought into such a position, as shown in Fig. 1, that the registering slits or slots in the twister disks, the toothed disk and the shaft carrying the same may engage the second strand of the fence. The driving shaft being then rotated, the toothed disk meshing therewith will transmit the motion to the twisting shaft and the twister disks will then be rotated so that, as shown in Figs. 2, 3 and 4, the latches will be caused to bring their notches 18 into engagement with the portion of the stay-wire extending to the upper strand of the fence after which the said wire will be carried by the latch and the pin upon which the roll is mounted around the strand of the fence and caused to wrap itself around the strand. The device is then moved to the next lower strand where the operation described is repeated. After the stay-wires have been wrapped in this manner around the lowest strand of the fence the wires are cut and the device is carried to the next point along the fence where the stay-wires are to be applied.

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

1. A device for the purpose set forth, comprising a twister disk having a radial slot ex-

tending from its center to engage over a fence wire, a pin on said disk carrying a roll of wire, and a latch retaining the said roll on the pin and engaging a free portion of the roll to cause the same to wrap around the fence wire when the disk is rotated.

2. In a device for the purpose set forth, the combination of a twister disk having pins on its outer face at diametrically opposite points, and a latch pivoted on one of said pins and adapted to engage the other pin and provided with notches in its edges.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

WALTER W. HARDY.

Witnesses:
J. M. JONES,
W. L. JONES.