

(No Model.)

W. E. GREEN.
WIRE STRETCHER.

No. 529,648.

Patented Nov. 20, 1894.

Fig. 1.

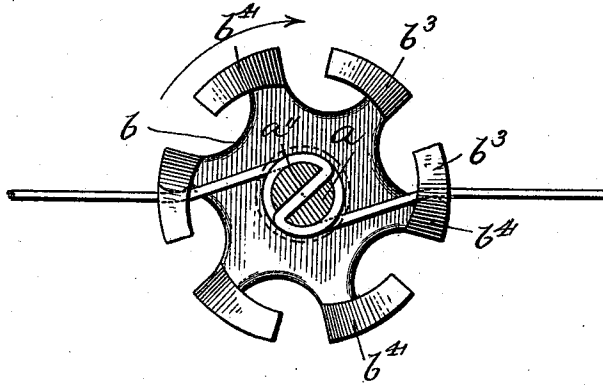


Fig. 2.

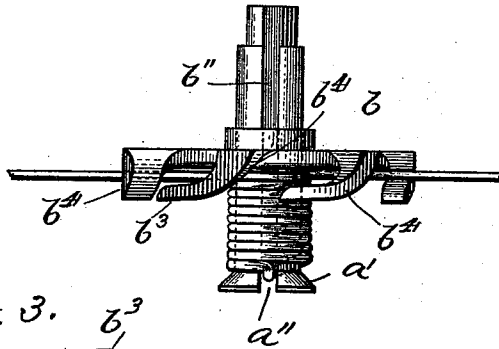


Fig. 3.

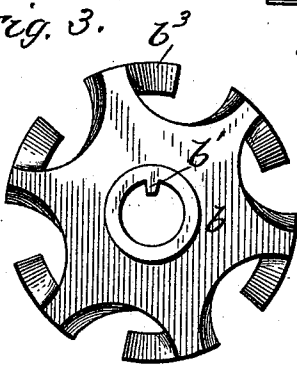
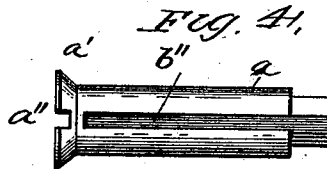


Fig. 4.



Witnesses

C. A. Muzzy
C. A. Muzzy

Inventor

William E. Green
By Alexander & Davis
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM E. GREEN, OF TIFFIN, ASSIGNOR OF TWO-THIRDS TO J. G. WALTER
AND HOMER DAY, OF MAPLE GROVE, OHIO.

WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 529,648, dated November 20, 1894.

Application filed March 23, 1894. Serial No. 504,837. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. GREEN, a citizen of the United States, residing at Tiffin, in the county of Seneca and State of Ohio, have invented certain new and useful Improvements in Wire-Stretchers, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

10 Figure 1 is a side elevation of my device applied to a fence wire; Fig. 2, a plan view thereof; Fig. 3, a detail side elevation of the hooked disk, and Fig. 4 a side view of the spindle.

15 This invention relates to that class of wire-stretchers which are adapted to be suspended on the fence wires and which consist essentially of a shaft or spindle, upon which the surplus wire is wound, and a hooked disk 20 carried by said shaft and adapted to engage the fence wire at points diametrically opposite the shaft, as more fully hereinafter set forth.

Referring to the drawings, *a* designates the 25 shaft or spindle, which is squared at one end for the reception of a wrench and is headed, as at *a'*, at its other end, said head being provided with a transverse slot *a* extending across the end of the shaft. Mounted upon 30 the shaft loosely, so as to freely slide thereon, is the disk *b*, the hub or eye of which is provided with a rib or lug *b'* which fits in a longitudinal groove *b''* formed in the shaft, whereby the disk is free to slide endwise on 35 the shaft but is compelled to rotate with it. The disk is provided with a series of hooks *b³* which project laterally from the edge of the disk and are all bent or turned circumferentially and in the same direction.

40 In applying the device to a wire, the wire is placed in the slot or groove *a''* and the shaft is then turned by means of a wrench or other tool. As the shaft is turned the sur-

plus wire is wound upon the shaft and the wire on the opposite sides of the device drawn 45 taut. As the shaft and disk rotate the beveled or curved parts *b⁴* of the hooks impinge successively against the wire and the disk is thereby slid along the shaft toward the squared end thereof. When the desired ten- 50 sion is obtained, the hooks engage the wires on opposite sides of the shaft and thereby prevent the tension from unwinding the surplusage wound on the shaft. As will be seen the essential feature lies in mounting the 55 hooked wheel slidably on the shaft, whereby said disk accommodates itself automatically to the amount of wire wound upon the shaft. It will be observed that if the disk were mounted rigidly on the shaft, the wire would 60 have to be bent or sprung in toward the hooks whenever the windings were not sufficient to extend in to the disk, and whenever the surplusage was more than sufficient to carry the 65 windings to the disk, a second course of windings would be necessary and that would carry the disk away from the wires, as is obvious.

Having thus fully described my invention, what I claim is—

In a wire stretcher, the combination of a 70 grooved shaft provided with means for engaging the wire at one end and at its other end with means for the reception of the wrench, and a disk slidably mounted on said shaft carrying a lug, working in the grooves 75 therein, and a series of lateral hooks *b³*, said hooks being turned or bent in the same direction and beveled on their outer sides, as at *b⁴* substantially as herein shown and described. 80

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

WILLIAM E. GREEN.

Witnesses:

ELMER SHIRKEY,
W. W. BETTS.