

(No Model.)

A. H. SENSENIG.
WIRE STRETCHER.

No. 536,400.

Patented Mar. 26, 1895.

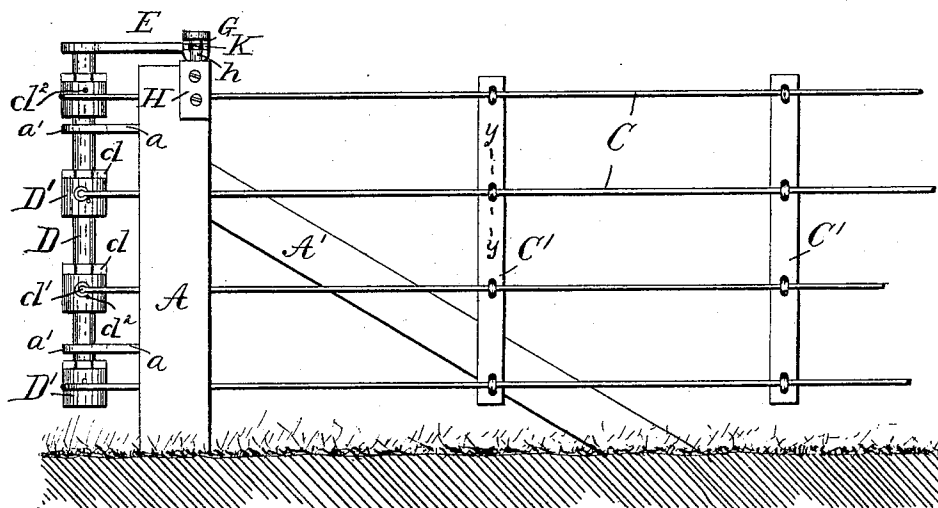


FIG. 1.

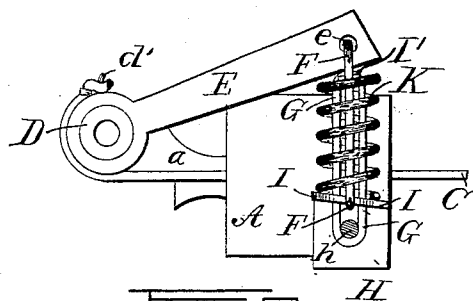


FIG. 2.

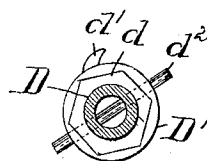


FIG. 3.

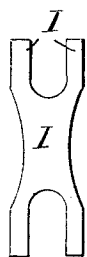


FIG. 4.

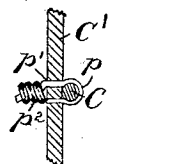


FIG. 5.

Witnesses

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WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 536,400, dated March 26, 1895.

Application filed September 19, 1894. Serial No. 523,455. (No model.)

To all whom it may concern:

Be it known that I, AARON H. SENSENIG, a citizen of the United States, residing at Farmersville, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in Wire Fences, of which the following is a specification.

This invention relates to improvements in that class of wire-fences having palings connected with the lines of wire between the posts; and the objects of the invention are, first, to automatically regulate the tension of the fence-wires in the variation of the length thereof produced by changes of temperature, and, second, to construct fastenings by which the palings can be readily and cheaply connected with and detached from the fence-wires. I accomplish these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view of one end of a fence panel having the tension regulator attached to the post, and showing a front view of the device for securing the wires to the palings. Fig. 2 is an enlarged top view of the post and tension regulator, and Fig. 3 a similar horizontal section of the tension-bar, taken on line $x-x$ of Fig. 1. Fig. 4 is an enlarged face view of one of the spring-bearings. Fig. 5 is a vertical section on line $y-y$ of Fig. 1.

Similar letters indicate like parts throughout the several views.

Referring to the details of the drawings, A indicates a fence-post of any suitable construction; A', the strut of the same; C, the fence-wires; and C', the palings. Projecting outward from post A are two arms, a , having eyes, a' , through which passes an upright cylindrical tension-bar, D. On this bar there are located short revoluble drums, D', each drum having a nut formed on one end adapted to be engaged by a wrench. To each of these drums is attached one of the fence-wires, which pass through post A and have their ends secured about studs or hooks, d' , projecting from the sides of the drums. Horizontal perforations are formed in the drums and are adapted to register with any one of series of similar perforations made in the same planes through the tension-bar. Locking-pins, d^2 , are engaged with the perforations in the drums and the registering perforations

through said tension-bar and secure the drums in a fixed position thereon.

To the upper end of the tension-bar is rigidly attached a lever, E, having a perforation, e , in its outer end engaged by a link F, which is also engaged with a similar link G, the outer end whereof takes over a pin or stud, h , on the top of post A and is secured thereto by an angle-plate, H, on which it is formed. Through the ends of links F and G, which are engaged with each other, pass bearing-plates I, having jaws, I', at both ends that engage the opposite sides of the embracing link; and between these plates I, and having the ends bearing thereon, there is a spring, K, coiled around both said links.

Each wire is secured to a separate drum, and each drum is turned about bar D until the wire attached thereto is stretched to its proper tension, when said drum is locked on said bar D by a locking-pin, d^2 . As the wires contract the force exerted thereby revolves tension-bar D and compresses spring K, but when said wires are expanded the slack produced therein is taken up by a reverse movement of tension-bar D, actuated by the force exerted thereon by spring K.

The fence-wires C are secured to palings C' by wire loops p . Each of these loops embraces a fence-wire and has its ends extending through separate perforations, p' , in the paling to which it fastens the line-wire and twisted on the opposite side, as shown at p^2 , Fig. 5. The line wire can be released from the paling at any time by untwisting ends p^2 .

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

1. In a wire-fence, the combination, with a fence-post, of a vertical tension-bar secured to the back of the post and having series of perforations through it, revoluble drums on the tension-bar having nuts formed on one end thereof, hooks on the peripheries of the drums, fence-wires supported by the post and secured to said hooks, pins passing through perforations in the drums and registering openings of the series in the tension-bar, a lever on the tension-bar, and a resilient connection between the swinging end of the lever and the post, substantially as and for the purpose specified.

2. In a wire-fence, the combination, with a fence-post, of arms projecting from the back of said post, a tension-bar passing through eyes in said arms, revoluble drums on said bar, fence-wires passing through the post and attached to the drums, perforations through said drums adapted to register with series of perforations through the tension-bar, pins constructed to pass through the perforations in the drums and the registering perforations through the tension-bar, a pin or stud on the fence-post, a link taking over said pin and interlocking with a link attached to the swinging end of said lever, bearing-plates engaging the interlocking ends of said links and having jaws formed on the ends thereof and embracing the adjacent sides of the outer links, and a spring coiled about the interlocking portions of said links and having the ends resting against the bearing-plates, substantially as and for the purpose specified.

3. In a wire-fence, the combination, with a

fence-post, of a vertical tension-bar secured to the back of the post, revoluble drums attached to the post, substantially as specified, fence-wires supported by the post and secured to said drums, an angle-plate embracing the side and top of the post and having a pin thereon, a lever on the tension-bar, a link taking over the pin on the angle-plate and interlocking with a link attached to the swinging end of said lever, bearing-plates engaging the interlocking ends of said links and having jaws formed on the ends thereof and embracing the adjacent sides of the outer links, and a spring coiled about the interlocking portions of said links and having its ends resting against the bearing plates, substantially as and for the purpose specified.

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Witnesses:

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