

(No Model.)

J. H. BROWER.

WIRE FENCE STAY.

No. 475,717.

Patented May 24, 1892.

Fig. 1.

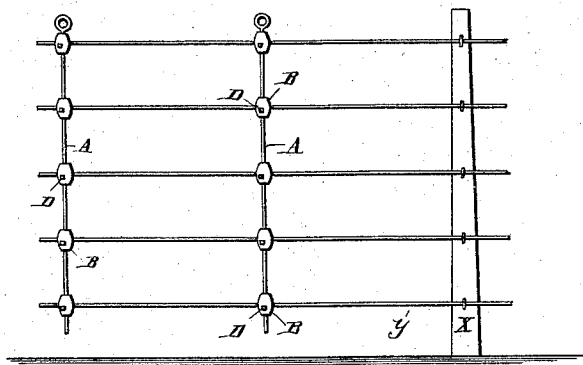


Fig. 2.

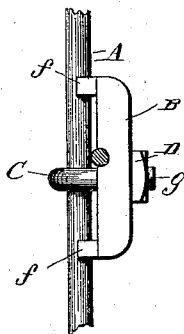


Fig. 4.

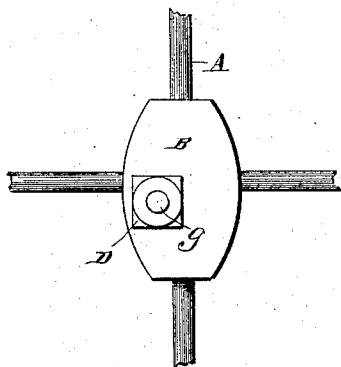


Fig. 3.

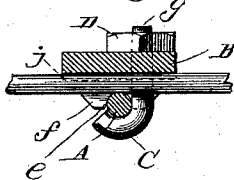


Fig. 6.

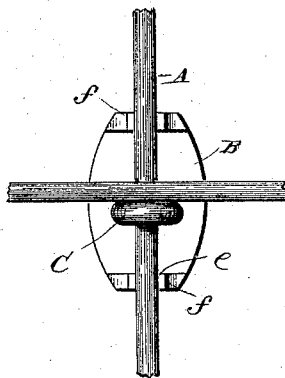
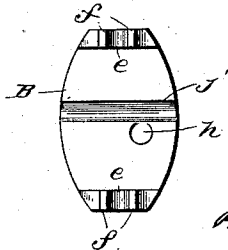


Fig. 5.



Witnesses:
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Inventor:
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By his atty - J. D. Conklin

UNITED STATES PATENT OFFICE.

JOHN H. BROWER, OF WAUPUN, WISCONSIN, ASSIGNOR OF ONE-HALF TO
RICHARD S. SARGENT, OF SAME PLACE.

WIRE-FENCE STAY.

SPECIFICATION forming part of Letters Patent No. 475,717, dated May 24, 1892.

Application filed December 18, 1891. Serial No. 415,564. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. BROWER, a citizen of the United States, residing at Waupun, in the county of Dodge and State of Wisconsin, have invented a new and useful Wire-Fence Stay, of which the following is a specification.

My invention relates to transverse stay-rods attached to the wires of fences by adjustable locks or clamps; and the objects of my improvements are, first, to provide a substantial stay or brace to strengthen and steady the fence-panel however wide between the fence-posts; second, to adjust the spaces between the strands of the fence-wire at any desired intervals and secure the same to place, and, third, to provide a simple, cheap, and handy clamp or lock adjustable to any point on the stay-rod in solid and secure manner. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view of the entire machine as attached to fence; Fig. 2, a side view or plan of the device; Fig. 3, a cross-section. Fig. 4 is an outer side view of the clamp as attached to the stay-rod and fence-wire; Fig. 5, a blank marked with plan of punching, grooving, notching, and flanging in construction; and Fig. 6 is an inner side view of clamp attached to fence-wire and stay-rod.

Similar letters refer to similar parts throughout the several views.

The stay-rod A, provided with clamps or locks B C D, constitutes the frame-work of the device. This rod A is formed of a length sufficient to cross the fence-panel *x y y* from top to bottom and of any material, contour, and gage that the use or fancy may dictate. For common field-fences perhaps the same material and gage as the fence-wire *y y* will be found preferable. The clamp or lock consists of a small oblong plate bent at the ends into shallow flanges or lugs *f f*, which are notched at *e e* in their edges to a depth, width, and shape to freely receive and hold the rod A. Across and at or near the middle the plate B is channelled or grooved at *j* to admit and support the fence wire or strand *y y*. At the angle of the crossing of the rod A and fence-

wire *y* a hole is punched or bored at *h* to admit and support the bolt C, Fig. 5. This bolt C, forming a part of the clamp or lock, is formed into a half-hook at its inner end and threaded at *g* to receive a nut D on its outer end and passes through the plate B by means of the perforation *h*, Figs. 2 and 3.

The material, proportions, and form of construction of the lock or clamp device may, like the rod A, be governed by the use or taste, provided they be adapted to the general plan of structure described.

The application and operation of the device, as will be obvious, is accomplished, first, by laying the fence-wires *y y* (after adjustment of the spaces or intervals desired) into the transverse grooves *j j* of the plate B, and then placing vertically the stay-rod A across the fence-wires and resting in the flange-notches *e e*. At the intersection of the rod and wire the hooked bolt or clamp C clasps the rod A, and by means of the nut D and thread *g* the rod is drawn tightly and securely on and over the fence-wire *y*, lying in the channel *j*, and thus the whole structure is held firmly and solidly in place, as shown in Figs. 1 and 2.

I am aware that prior to my invention wire-fence stays have been made with vertical rods operating in conjunction with locking devices at their intersection with the fence-wires. I therefore do not claim such a combination, broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, in a wire-fence stay, of the rod A, as described, with the clamping device B C D, having channels *j j*, notched flanges *f e*, and clamp-bolt C, with nut and screw D *g*, all substantially as set forth.

2. The combination, in a lock or clamp, as and for the purposes shown, of the flanged, grooved, and notched plate B *f e j* with the bolt C, half-hooked on the inner side and provided with screw and nut D on the outer side, as set forth.

JOHN H. BROWER.

Witnesses:

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JAMES HARLIN.