

(No Model.)

C. H. BRUNK.
WIRE FENCE AND TIGHTENER.

No. 508,465.

Patented Nov. 14, 1893.

Fig. 1.

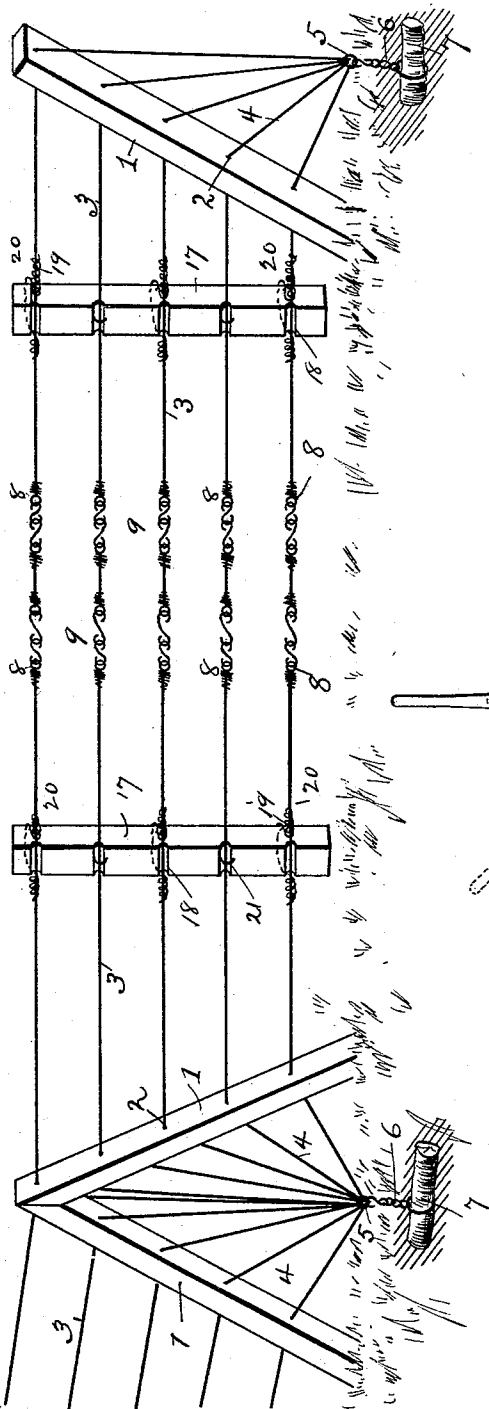
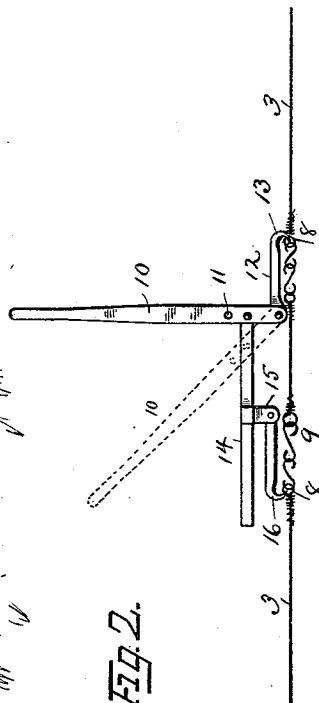


Fig. 2.



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WIRE FENCE AND TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 508,465, dated November 14, 1893.

Application filed July 11, 1893. Serial No. 480,193. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN H. BRUNK, a citizen of the United States, residing at Harrisonburg, in the county of Rockingham and State of Virginia, have invented certain new and useful Improvements in Wire Fences and Tighteners; and I do hereby 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.

This invention relates to improvements, as hereinafter set forth, in wire fences and tighteners therefor.

In the accompanying drawings, Figure 1 represents, in perspective, a portion of the front and side of a fence constructed according to my improvements. Fig. 2 represents a top plan view of a portion of the fence with the tightener in position for use.

The objects of this invention are to produce a wire fence which, with the employment of the least amount of material, will be strong, rigid, easily and cheaply constructed, and in which the wires can be readily tightened or loosened as desired.

1 represents the end or corner posts, as the case may be; these posts are inserted in the ground at a rearward inclination or angle as shown and have transverse slots or holes, 2, therethrough through which the outer ends of the fence-wires, 3, are passed. These wires, 3, are horizontal and are each of sectional formation, that is, in two parts or lengths, the outer ends of each section passing through the holes, 2, and from thence passing vertically downward at converging angles, as at, 4, to a common center, 5, where they are attached to a rope, chain, or equivalent device, 6, attached to an anchor, 7, embedded in the ground. By thus inclining the end and corner posts, 1, and converging and anchoring the wires, 3, it is found, in practice, that not only is a saving effected in the number of supporting posts required, but, also, that an effective bracing support is afforded said posts by the wires and the wires by the inclined posts which results in the production of a rigid fence. The inner ends of each section of each wire are eyed, or have loops formed therein, as at, 8, by looping the re-

spective ends and twisting the end around the adjacent part of the wire. These inner ends are connected with each other by a series of links or hooks, 9, which, as shown, are of unequal lengths so that when it is desired to tighten the respective wires, or either of them, one or more of said links or hooks may be removed according to requirement and the linked connection drawn and again connected together. By employing hooks or links of varying lengths for connecting the inner ends of the wires, 3, facility of adjustment of the wires is assured with the utmost nicety as, according to the length to be taken up, either a long link or a short link may be removed or a long link, or links, removed and a short link, or links, substituted. Similarly, should it be desired to lengthen either of the wires, one or more links or hooks, 9, can readily be inserted by releasing a pair of the hooks or links already in position.

In Fig. 2 I have shown the wire tightener I employ for loosening and bringing together the independent and removable hook or link connection between the inner ends of the wires, 3, and drawing said wires together to tighten them. This tightener consists of an operative lever, 10, having a series of holes, 11, in its lower portion. To the lower hole is connected, by rivet or otherwise, one end of a grip, 12, whose other end is of hook shape, 13, to take into one portion of the link connection, 9. Removably and adjustably connected in either of the other holes, 11, in said lever, 10, is a bar, 14, upon which is grippingly held with capability of longitudinal adjustment, by sliding thereon, a link, 15, to which is pivotally attached a hoop grip, 16, adapted to engage another portion of the link connection, 9—as clearly shown in Fig. 2 of the drawings.

To draw the sections of wires and link coupling together, the lever, 10, is first brought to a position out of the perpendicular; the respective hooked grips, 12, 16, are then engaged with the link coupling, 9; the lever is then raised to a perpendicular position, thereby drawing the hooked grips linked-coupling and inner ends of the longitudinal wires inward, whereupon the necessary adjustment of the link or hooked coupling can

be readily effected by either the removal, substitution or otherwise, as before explained, of the hooks or links, 9.

17 represents stay-bars which have longitudinal grooves, 18, in their faces to receive the wires, 3—which at the top bottom and center of said stay-bars are connected thereto, with capability of slight freedom of horizontal movement, by short lengths of wire, 19, 10 which are curved around so as to embrace the rear and sides of said stay-bars, the ends of said wires being coiled around the wires, 3, as shown at, 20; mediately of said wire connections, 19, the wires, 3, are loosely stapled 15 to the stay-bars by staples, 21.

At the corners of a fence, as shown in Fig. 1, the ends, 4, of the respective wires, 3, of the adjacent sections converge vertically and tangentially to a common center where they 20 are all attached to a wire rope or equivalent connection with a single anchor.

It is preferred that the links or hooks, 9, be of somewhat heavier metal than that of the wires, 3. In the drawings I have shown the 25 connection, 9, between the inner ends of the wires, 3, as composed of alternate S-shaped hooks and links, or short lengths of wire having their ends twisted into loop formation, but so long as the connection between the inner 30 ends of the wires, 3, consists of a plurality of removable and interchangeable connections adapted to hook readily into the eyed ends of the wires, 3, it is immaterial whether said connection consists of links and hooks or 35 hooks alone.

What I claim, and desire to secure by Letters Patent, is—

1. A wire fence having a series of sectional wires having eyed inner ends and a series of 40 independent and removable links connecting said sections, substantially as and for the purpose set forth.

2. A wire fence consisting of inclined corner and end posts, a series of sectional horizontal wires having adjustable link connection 45 at their inner ends, the outer ends of said wires extending through said posts and converging vertically to a common center, an anchor and a rope, chain or similar device

connecting said anchor and the converged 50 outer ends of said wires; stay-bars having wire-receiving grooves and having top, bottom and central wire connection and, mediately thereof, staple connection with said horizontal wires, substantially as and for the purpose 55 set forth.

3. A wire fence consisting of horizontally-perforated end and corner posts, a series of sectional horizontal wires extending at their 60 outer ends through said end and corner posts and having suitable end connection and having eyed inner ends, independent and removable links coupling the inner ends of said 65 wires, and stay-bars connected with said horizontal wires to admit of the horizontal and prevent the vertical movement of said wires, substantially as and for the purpose set forth.

4. A wire fence consisting of angularly-disposed corner or end posts having transverse 70 holes, a series of sectional horizontal wires extending at their outer ends through said holes and suitable retaining devices for securing said ends, said wires having eyed inner ends, a number of independent and detachable links 75 connecting the inner ends of said wires, stay-bars having horizontal grooves to receive the horizontal wires, and wires and staples connecting said horizontal wires and stay-bars, substantially as and for the purpose set forth.

5. The combination with a wire fence having a series of sectional wires having eyed inner ends and a series of independent and removable links connecting said sections, of a 80 wire-tightener consisting of an operative lever having a number of slots in its lower end, 85 a hooked grip attached to the lower end of said lever, a bar removably and adjustably secured within one of the slots in said lever and a hooked-grip having pivotal connection 90 with said bar, substantially as and for the purpose set forth.

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

CHRISTIAN H. BRUNK.

Witnesses:

CHAS. J. GOOCH,
FRANK G. GRIMES.