

No. 676,023.

Patented June 11, 1901.

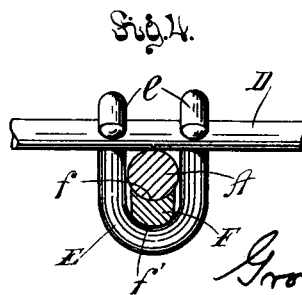
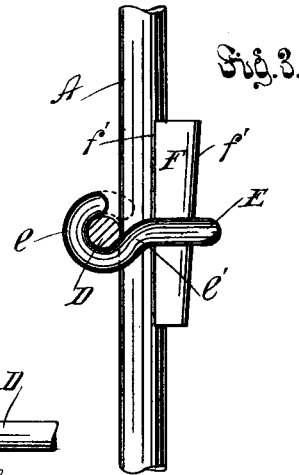
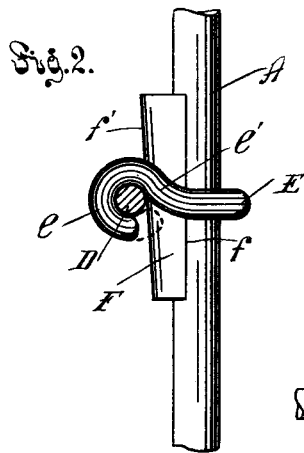
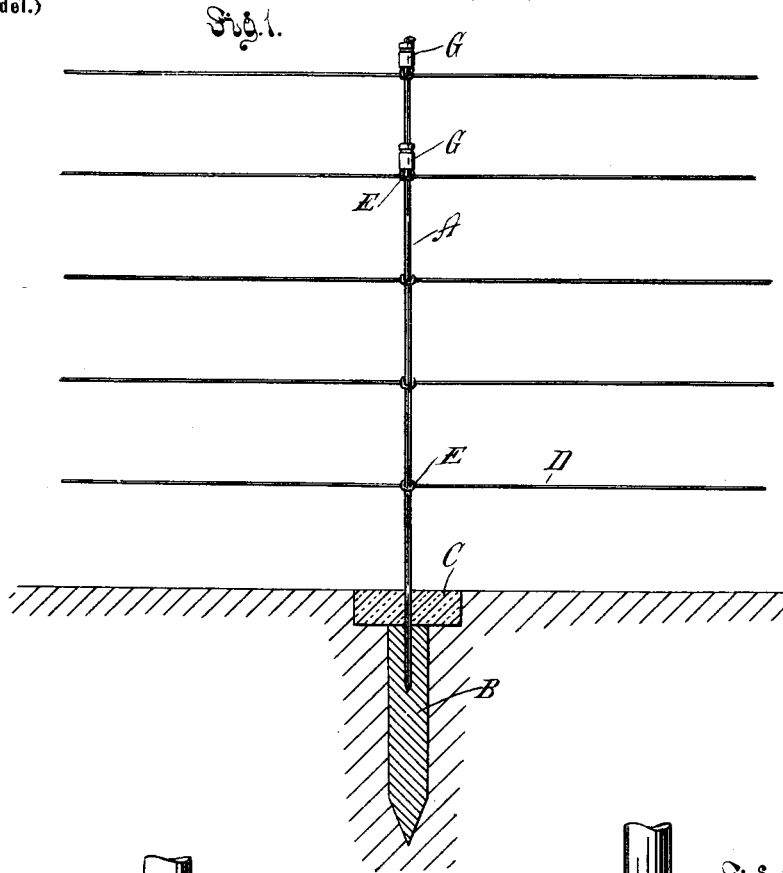
G. S. BARTHOLOMEW, Dec'd.

E. A. BECK, Administrator.

WIRE FENCE.

(Application filed Nov. 28, 1898.)

(No Model.)



Witnesses
Severy Kingman.
J. Townsend

Grove S. Bartholomew
by Townsend & Co.
his attys.

UNITED STATES PATENT OFFICE.

GROVE S. BARTHOLOMEW, OF LOS ANGELES, CALIFORNIA; E. A. BECK
ADMINISTRATOR OF SAID BARTHOLOMEW, DECEASED.

WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 676,023, dated June 11, 1901.

Application filed November 23, 1898. Serial No. 697,698. (No model.)

To all whom it may concern:

Be it known that I, GROVE S. BARTHOLOMEW, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Wire Fences, of which the following is a specification.

The object of my invention is to provide for the more ready and convenient construction of wire fences and at the same time to make an extremely light, strong, and durable and plainly-visible fence.

My invention comprises the various features of construction and combinations of parts hereinafter fully set forth and claimed.

The accompanying drawings illustrate my invention.

Figure 1 is a fragmental view, partly in section, showing a fence supplied with my improved stay and lock. Fig. 2 is an enlarged detail showing the stay and lock, with the wedge interposed between the stay-wire and the fence-wire. Fig. 3 is a like view showing the wedge interposed between the loop of the lock and the stay-wire. Fig. 4 is a plan view of Fig. 3.

In the drawings, A represents my improved stay. This stay is formed of rigid wire of any suitable size, and at its lower end it is driven into a supporting and anchoring stake B, which is driven into the ground and has its top arranged below the surface of the ground. This avoids decay to a large extent, since wood at the surface of the soil decays quicker than that either above or below the surface. Above the top of the stake I preferably apply a layer of cement C, which is placed in position after the stay-wire A is driven into the top of the stake. This cement operates not only to hold the stake from being pulled out of the ground, but also serves to protect the top of the stake from moisture and to also firmly bed the lower end of the stay-wire. The stake serves not only to support the stay and the weight of the fence-wires secured thereto, but also serves as an anchor to prevent the stay from being pulled upward.

D represents the horizontal fence-wire, and E represents my improved lock, which is preferably formed of wire bent into the form of

a staple or into loop shape and having its side members *e* each bent at its outer end to hook upon or engage with the fence-wire when the lock is arranged with its side arms embracing the stay-wire, as shown in the drawings.

F is my improved wedge, which is provided upon one side with a concave face *f*, and is preferably provided upon the other side with a convex face *f'*. When the wedge is interposed between the stay and the fence wire, as shown in Fig. 2, the concave face is arranged resting against the stay-wire, and the convex face rests against the fence-wire between the two hooks, which engage with the fence-wire, so that it forms a point of bearing between the two hooks, and this allows a slight spring of the fence-wire and allows for expansion and contraction by heat or cold without loosening the lock.

In Fig. 3 the wedge is shown driven between the end of the loop and the stay-wire, the concave face being presented next to the stay and the convex face fitting into the bend of the loop. In this case the fence-wire is brought against the round face of the stay-wire, which forms the bearing between the two arms of the loop and gives the spring necessary to compensate for the expansion and contraction.

By making the wedge F concave upon one face *f* and arranging this face next to one of the wires—the one along which the wedge extends—the wedge is thus held firmly parallel with the wire against which the concave face rests, and I am thereby enabled to dispense with one of the pairs of parallel side arms which it has heretofore been necessary to use in order to hold the wedge from canting, and thus becoming loosened.

In order to obtain a square pull against the fence-wire, I provide each of the side members *e* of the loop with an offset or bend *e'*, thus forming the hook at the end thereof in such position relative to the side members that when the hook is hooked upon the fence-wire with the loop embracing the stay-wire, the axis of the stay-wire will be substantially in line with the axis of the side members of the loop. Thus when the wedge is driven home a square pull is maintained and there

is no liability of the parts becoming canted with relation to each other, and thus rendering them liable to become loosened by an up or down movement of the fence-wire.

5 In practical operation the fence-wires are firststrung in position and drawn taut. Then the supporting and anchoring stake is driven into the ground at the desired place, a hole of sufficient depth being made to allow the stake
10 to be driven until its top is arranged a distance below the surface of the ground. Then the stay-wire is driven downward into the supporting-stake, and, if desired, a layer of cement is spread over the top of the stake
15 and around the stay-wire, and after the cement hardens the stake is rigidly anchored in position. Then the locks are applied, the loop being placed to embrace the stay-wire and the hooks being engaged with the fence-
20 wires, after which the wedge may be driven either between the stay and the fence wires or between the stay and the end of the loop, thus firmly binding the parts in position.

In order to render the fence visible by a
25 device which is neat, cheap, and durable, I string sight-indicators G upon the wires, these indicators being preferably formed of spools or other objects suitably colored and each having a perforation therethrough, the
30 indicators being strung upon the stay-wires. They may be arranged between the top and second wires, if desired, and thereby retained in position without any other fastening.

It is obvious that the lock may be arranged
35 to embrace the fence-wire in the loop and to

hook upon the stay-wire. It is also obvious that the hook portion of the lock may be made long, and after being placed in position upon the wire bent around the wire to form an
40 eye, as shown in dotted lines in Figs. 2 and 3. In such event, however, the locks cannot be easily loosened, and in order to remove the stay it must be slipped upward out of the locks, the wedges being all removed for this
45 purpose. The concrete slab C serves not only as an additional anchorage for the stay, but also serves as a protection for the top of the stake to prevent the entrance of moisture and air into the pores of the wood, and thus
50 tending to preserve the stake.

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

1. A fence-stay comprising a wooden anchor-stake; a wire driven into the top thereof
55 to extend to the top of the fence, and a slab of concrete around the wire and on the top of the stake and rigidly secured thereto and to the stake and extending laterally beyond the
60 stake.

2. A fence-stay comprising a wooden anchor-stake; a wire driven into the top thereof and extending upward for attachment to the strands of the fence; and a slab of concrete
65 around the wire and on the top of the stake and rigidly secured thereto and to the stake.

GROVE S. BARTHOLOMEW.

Witnesses:

ALFRED I. TOWNSEND,
JAMES R. TOWNSEND.