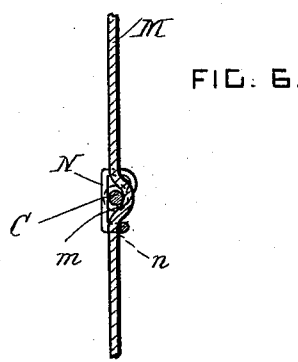
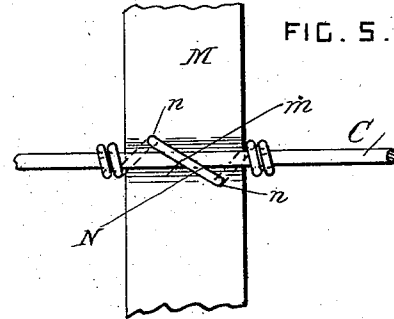
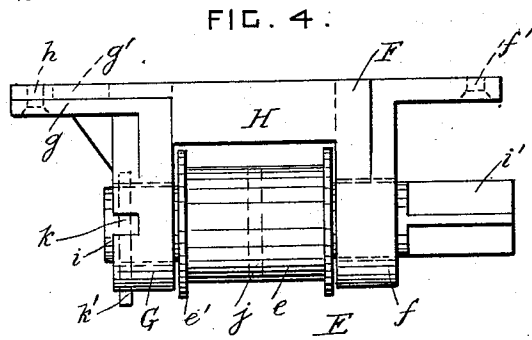
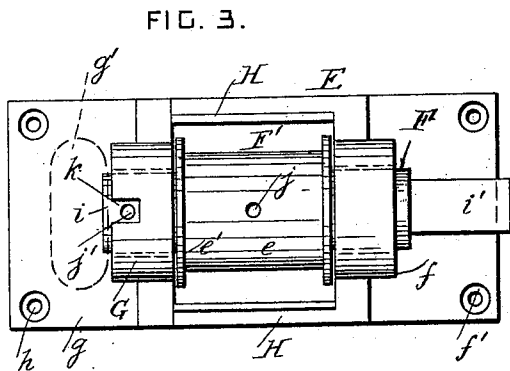
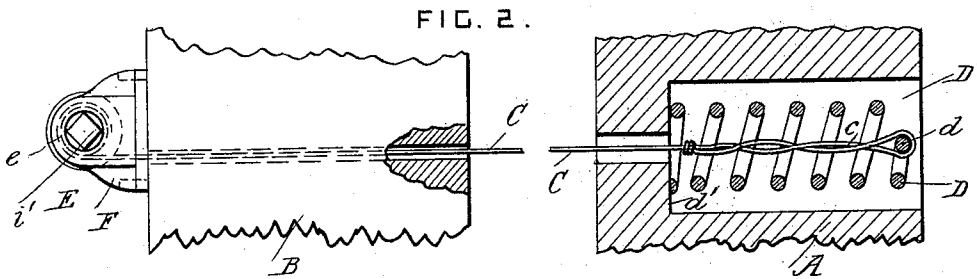
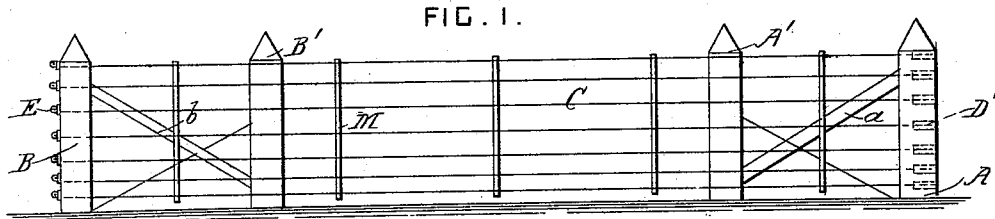


(No Model.)

B. H. HALEY.
WIRE FENCE.

No. 570,090.

Patented Oct. 27, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

BRINCKLE H. HALEY, OF WEST CHESTER, PENNSYLVANIA.

WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 570,090, dated October 27, 1896.

Application filed May 8, 1896. Serial No. 590,732. (No model.)

To all whom it may concern:

Be it known that I, BRINCKLE H. HALEY, a citizen of the United States, residing at West Chester, in the county of Chester and State of Pennsylvania, have invented certain new and useful Improvements in Wire Fences; 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 wire fences; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a front view of a fence constructed according to this invention. Fig. 2 is a front view of portions of the two end posts of the fence, partly in section, showing a supporting-spring and a device for tightening the wire and drawn to a larger scale. Fig. 3 is a detail front view of a wire-tightener, and Fig. 4 is a plan view of the same. Fig. 5 is a front view of a portion of one of the braces for the wires, showing its attachment to the wire; and Fig. 6 is a vertical section through the said wire and its brace.

A and B are the two posts at the respective ends of the fence.

A' and B' are supplemental posts near the posts A and B, and *a* and *b* are stays arranged diagonally between the posts A and A' and B and B' to enable the end posts to withstand the tension of the wires of the fence without being pulled out of their vertical positions. The posts are secured in the ground in any approved manner.

C are the wires of the fence. Each wire C has a looped and twisted end portion *c*, which engages with the rear end portion *d* of a spiral spring D. The spring D is inserted in a hole D' in the fence-post A, and its front end abuts against the bottom *d'* of the said hole. The wire extends through the spring longitudinally and passes through a hole in the post A.

The other end of each wire C is coiled upon the barrel *e* of a tightening device E. The tightening device E is provided with a bracket

F, having a lug *f* at its front portion and holes *f'* in its front flange for the screws or nails which secure it to the post B. G is a lug having a flange *g* and a projection *g'* on the back of the said flange. The projection *g'* fits into a hole in the rear flange of the bracket F, and *h* are holes in the said rear flange and in the flange *g* for the screws or nails which secure the lug G to the bracket F and to the post B.

H are side pieces on the bracket F, and F' is a hole between the side pieces for the wire to pass through. The rear ends of these side pieces form guides for the lug G and keep it in alinement with the lug *f*.

The barrel *e* has flanges *e'*, and a shaft *i* is formed integral with it and is journaled in holes in the lugs *f* and G. The front end *i'* of the said shaft is rectangular, so that a wrench may be applied to it for the purpose of revolving the barrel and tightening the wire.

The barrel *e* has a hole *j* for receiving the bent end of the wire, and the rear end of the shaft *i* has a hole *j'*, which comes in line with notches *k* in the lug G. When the barrel has been revolved to draw the wire to the desired tension, a pin *k'* is slipped through the hole *j'* and the notches *k* to secure the barrel. The shaft *i* fits loosely in its bearing-holes in the lugs, so that the said parts can be of cast metal and can be slipped together without fitting or machining.

The spring at the end of each wire keeps it taut under changes of temperature which alter the length of the wire and keeps the wire from being broken when considerable force is used in straining or stretching the wire.

The portions of the wires between the posts are provided with braces M. These braces are arranged vertically, and as many of them may be used as desired. Each brace consists of a flat bar provided with channels *m* across it for the wires to fit in. Each fence-wire is secured in its channel by a fastening-wire N. The wire N extends diagonally across the fence-wire in front of the channel *m* and is passed through holes *n* in the brace above and below the channel. The ends of the wire N are then coiled upon the fence-wire, thereby

preventing the brace from slipping longitudinally on the fence-wire.

I claim—

In a wire fence, the combination, with a
5 post, and a fence-wire, of a wire-tightener
comprising a bracket provided with a lug *f*
and side pieces, a lug *G* having a flange abutting
against the said side pieces and a projection
fitting into a hole in the bracket, said
10 bracket and lug being secured to the post, a

barrel journaled in the said lugs *f* and *G*, and
means for securing the said barrel to the
bracket, substantially as set forth.

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

BRINCKLE H. HALEY.

Witnesses:

WILLIAM CHALFANT, Jr.,
CHAS. H. PENNYPACKER.