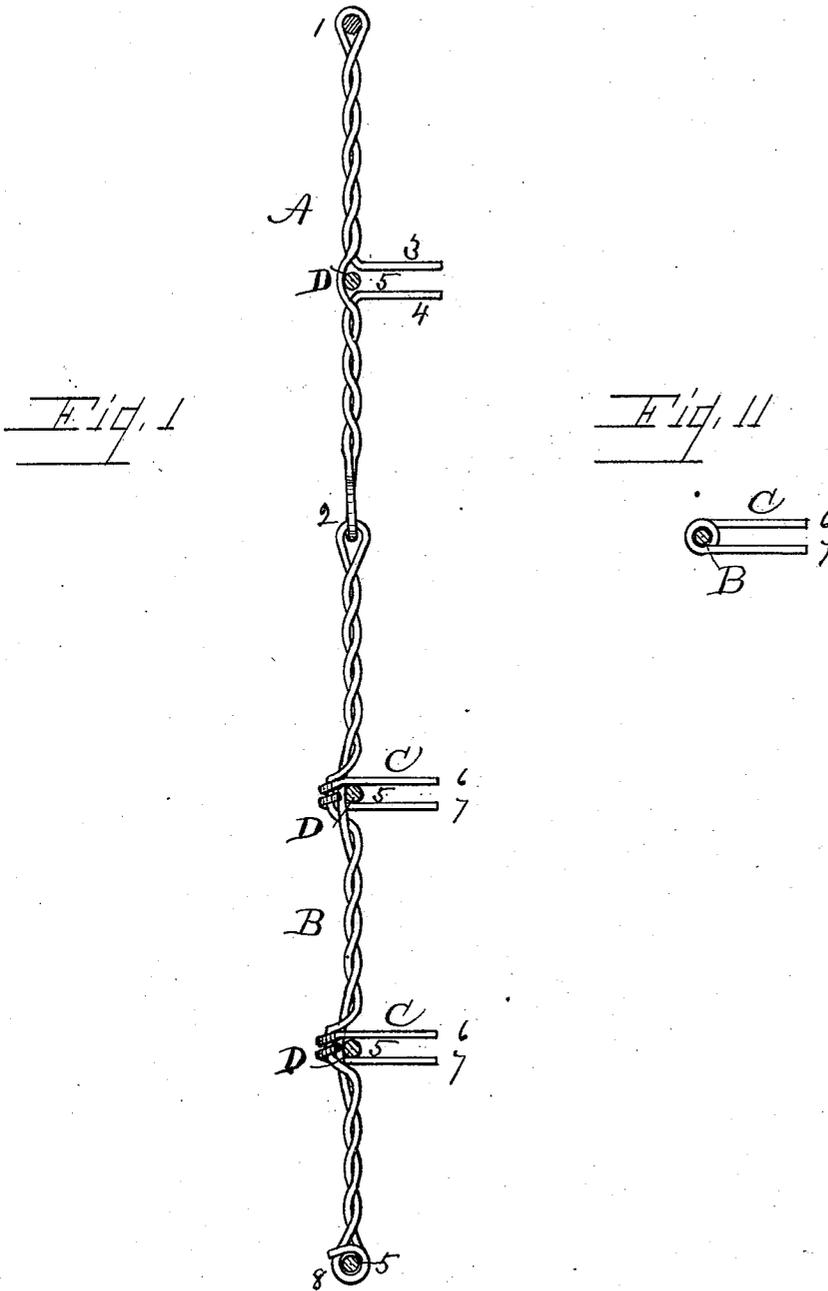


(No Model.)

W. A. NORRIS.
WIRE FENCE.

No. 511,449.

Patented Dec. 26, 1893.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM A. NORRIS, OF GARLAND, OHIO, ASSIGNOR OF ONE-HALF TO
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WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 511,449, dated December 26, 1893.

Application filed May 11, 1893. Serial No. 473,830. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. NORRIS, a citizen of the United States, residing at Garland, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Wire Fences; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in stays for wire fences, the upper stays comprising a series of interlinked like stays having eyes in the end for engagement, the body twisted and terminating at the center in parallel ends, and a rigid stay for the bottom runners, with an eye at the top, and binding wires secured within the twisted body of said rigid stay, and the lower ends adapted to be twisted onto the lower runner.

The object of my invention is the production of a completed stay to engage the entire series of runners, and for convenient attachment thereto.

The object is accomplished by the device illustrated in the accompanying drawings, in which—

Figure I is a side view of the two forms of stays, the runner being shown in section. Fig. II is a top view of the binding-wire.

Like letters and numerals designate like parts in the two views.

At A is represented one of a series of stays used to bind the upper series of runners, as used in the construction of a wire fence. The length may vary, but they are identical in construction. The stay comprises a single piece of wire, having two loops formed at a distance from the ends. Said ends are then twisted in forming the body, and terminate near the center in a parallel position at a

right angle to said body. In this position the ends can be passed over the runner D, and fastened to the same by bending of said ends about the said runner.

In the illustrations 1 and 2 are the loops, and 3 and 4 the parallel or binding ends.

At 5, in Fig. I, are shown in section the series of runners. B is the rigid lower stay, and ordinarily is constructed to engage the four lower runners, but may embrace more or less. This stay comprises a single piece of wire. A loop is formed at its center,—the wire is first entered into the loop of a fellow stay,—the wire is then twisted together for a distance, and over one portion of said stay is passed the binding-wire C, another suitable distance the wire is twisted and another binding-wire is placed on in the same manner; the wire is then twisted a farther distance, and finally the ends are left apart to pass over the lowest runner, and the ends are bent about the runner as at 8, to effect a secure fastening. The binding wire C is formed of a single piece of wire and is comprised of a coil at its center, with parallel ends 6 and 7 adapted to embrace the runner. This is placed on one strand of the rigid stay A in such manner as to embrace the other strand. The runner is placed between these ends, and they are bent around the same to secure the stay to the runner. The stay in practical use comprises a series of the links or stays A, to secure the upper series of runners and the rigid stay B, to hold the lower runners, all interlinked. The extreme top stay is fastened by a binding wire in the usual way, and all the other runners are secured as heretofore specified. Each form of stay may be used unitedly or joined with similar looped stays.

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

1. The stay A for wire fences formed of a single piece of wire comprising interlocking

loops at both ends, the wire twisted together to form the body, and having parallel ends at a right angle and central to the same and adapted to be twisted about the runner, substantially as described.

2. In a wire fence the combination of a series of runners D, the interlocking stays A with free ends to engage said runners; and the rigid lower stay B provided with binding wires C, to engage the lower runners and the

free ends to bind the lowest substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM A. NORRIS.

Witnesses:

HARVEY LONGONECKER,
D. P. CLEMON.