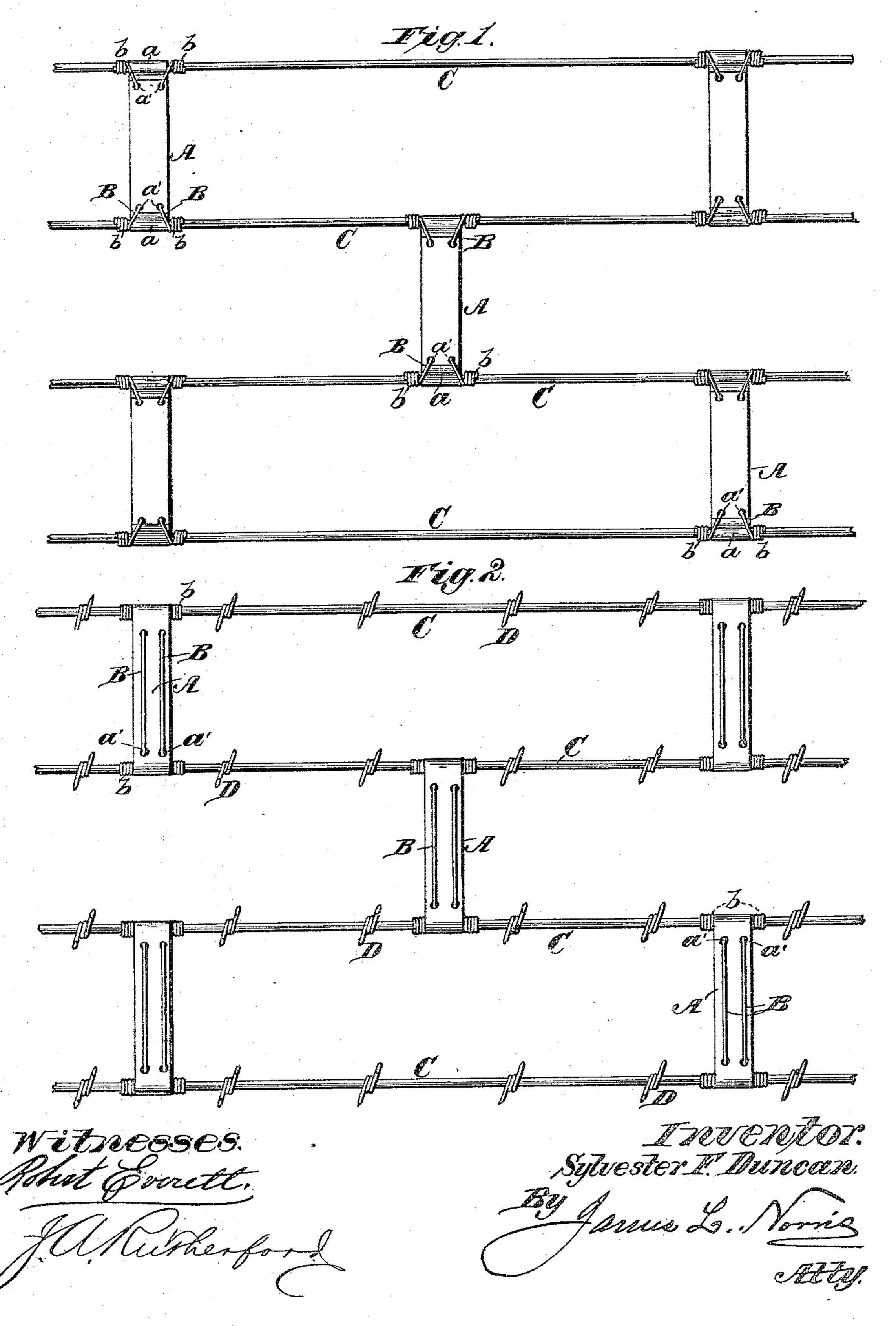
S. F. DUNCAN.

STAY PIECE AND GUARD FOR WIRE FENCES.

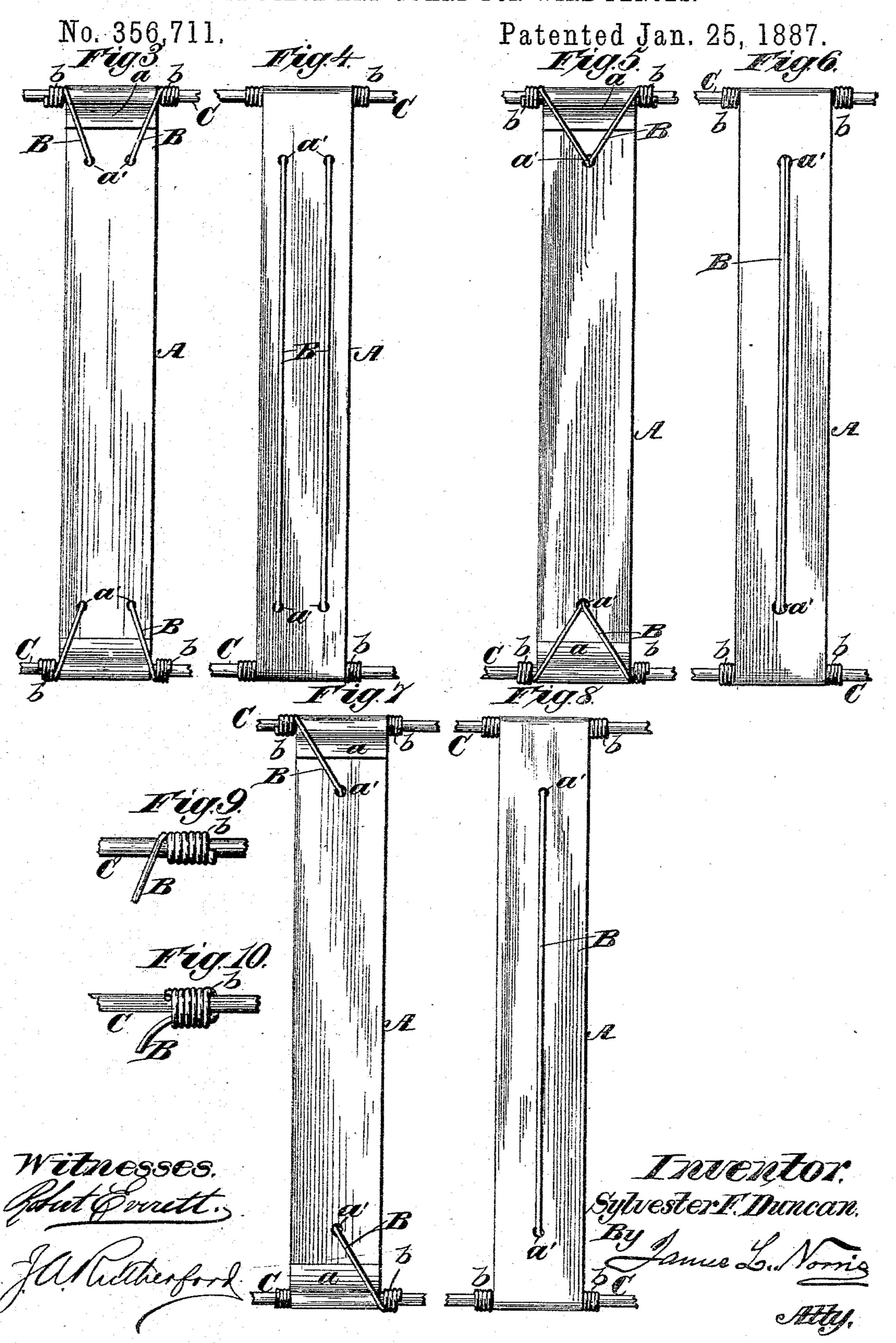
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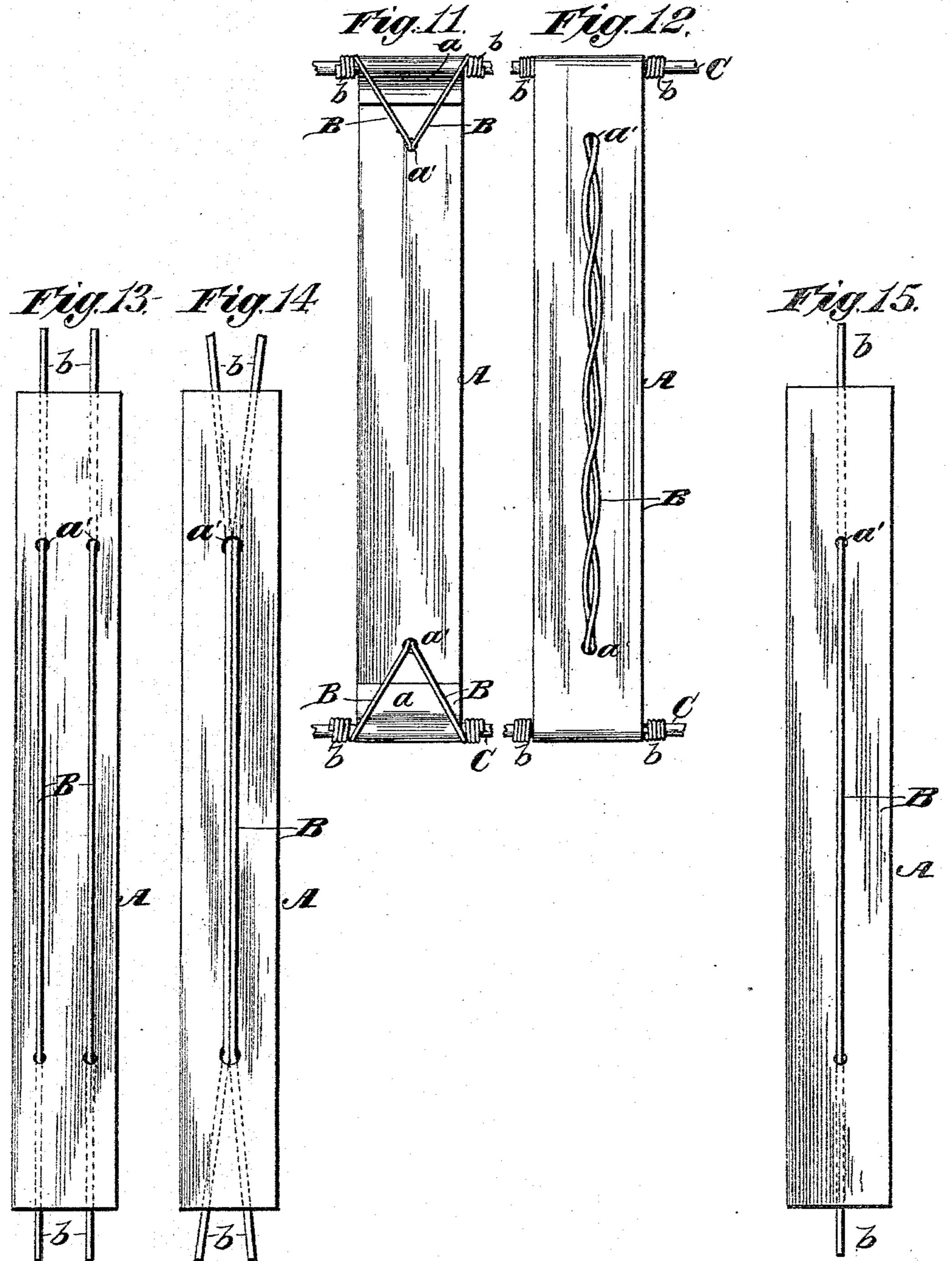


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Witnesses. Abet Greett, Makerford Sylvester F. Duncan,
By James L. Noris.

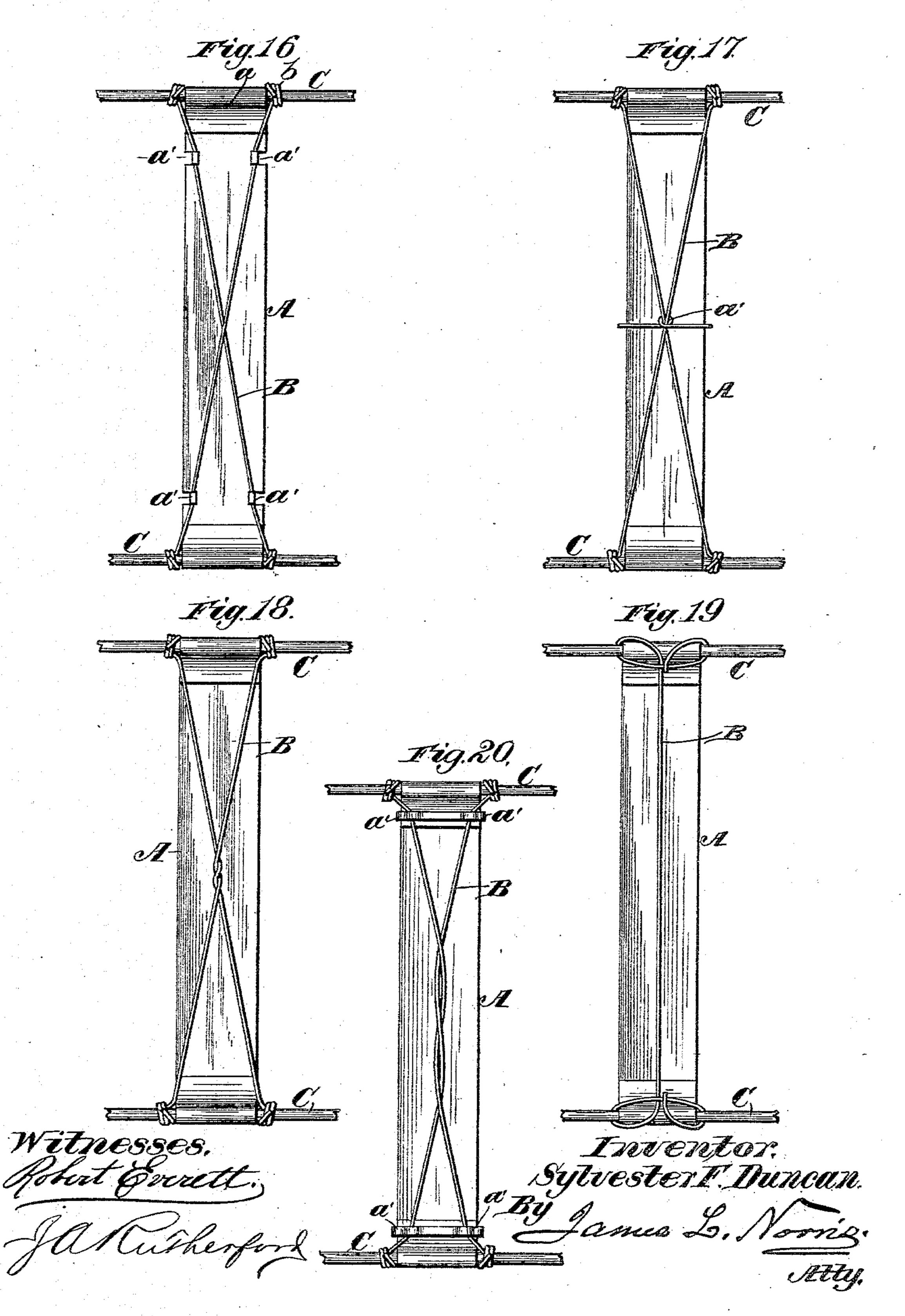
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Patented Jan. 25, 1887.



United States Patent Office.

SYLVESTER F. DUNCAN, OF CHICAGO, ILLINOIS.

STAY-PIECE AND GUARD FOR WIRE FENCES.

SPECIFICATION forming part of Letters Patent No. 356,711, dated January 25, 1887.

Application filed August 5, 1826. Serial No. 210,093. (No model.)

To all whom it may concern:

Be it known that I, SYLVESTER F. DUNCAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illi-5 nois, have invented new and useful Improvements in Stay-Pieces and Guards for Wire Fences, of which the following is a specification.

This invention has for its objects to con-10 struct a stay-piece and guard of light material which can be readily applied to the runners of a wire fence, and which, when applied, will add to the strength of the fence and maintain the runners in proper relations 15 one with the other, and at the same time give all of the flexibility required for the fence as a whole; and it consists in the novel construction and combination of parts, hereinaster fully described and claimed, and illustrated in 20 the accompanying drawings, in which-

Figure 1 is an elevation showing the invention applied to a plain wire; Fig. 2, an elevation showing the invention applied to a barbed wire; Figs. 3 and 4, details, being views of 25 opposite sides of the stay-piece and guard in one form of construction; Figs. 5 and 6, similar views showing another form of construction; Figs. 7, 8, and 15, similar views showing another form of construction; Fig. 9, a detail 30 showing a wrap for the stay-piece wire wound around the runner; Fig. 10, a detail showing a modification in the wrap of the stay-piece wire around the runner; Figs. 11 and 12, similar views to Figs. 3 and 4, showing a cord of 35 twisted wire; Figs. 13 and 14, views showing the stay-piece and guard formed ready for attachment to the runner, the figures showing, respectively, different modifications in the construction. Figs. 16, 17, 18, 19, and 20 are 40 modified forms of applying the invention.

In said drawings, A designates a strip of thin metal, of sufficient length to span the space between two runners of a wire fence and have each end overlap and pass around each 45 runner. This strip may be of any desired width, and is to be provided with a hole or holes or eyes, a', at each end for the passage of the coacting cord, which combines with the metal strip to make a complete stay and 50 guard.

B is the cord, which may be arranged in relation to the metal strip in various shapes.

As shown in Figs. 1, 2, 3, and 4, two wires are used to form the cord, the wires being at some distance apart and each wire passing 55 through holes a' at opposite ends of the metal strip, as shown in Figs. 3 and 4, and each wire is of a length sufficient to extend from runner to runner and leave an end to be wound around the runner.

As shown in Figs. 5 and 6, the cord is formed of two wires lying side by side, the wires passing through a hole, a', at each end of the strip A, and being of sufficient length to run from runner to runner and for the ends 65 to wind around the runners.

As shown in Figs. 7 and 8, the cord is formed of a single wire, located centrally crosswise of the strip and passing through holes a' at each end of the strip and of sufficient length to have 70 the ends extend to and be wound around the runners.

As shown in Figs. 11 and 12, the cord is formed of two wires, twisted together for that portion which lies adjacent to the metal strip, 75 the wire passing through holes a' at each end of the strip, and the two strands, after passing through the hole, being divided and the ends carried to and wrapped around the runners; and it is evident that other modifications in 80 the combining of the thin metal strip and the cord could be used without departing from the essential feature of the invention, which is the production of a stay and guard from a combined metal strip and cord.

As shown in Fig. 16, the cords are crossed and passed through eyes a' in the strip, by cutting lips from the edges of the strip and turning them over to form eyes and winding the wires around the runners C.

As shown in Fig. 17, the cords B are crossed and passed through eyes a', formed by wrapping a piece of wire around the strip, as shown.

As shown in Fig. 18, the cords Bare twisted, as shown, and then wound around the run- 95 ners.

As shown in Fig. 19, a single cord is used, it being passed around the runners at opposite ends of the strip, then across itself and the strip, then around the runners, and then se- 100 cured to itself.

As shown in Fig. 20, two cords are used, which are twisted together and passed through holes or eyes a', formed by strips of metal

passed around opposite ends of the strips A and then secured to the runners by wrapping around the same.

C are the runners for the wire fence, which 5 may be of plain wire, as shown in Fig. 1, or of wire having barbs D thereon, as shown in Fig. 2. The end of the cord may be wound around the runner in a single coil, as shown in Fig. 9, or the connection may be, as shown in Fig. 10, by winding the end around the wire itself as well as the runner, or such connection may be of any form that will secure the cord firmly to the runners.

The strips and wire are to be combined one with the other, in any of the forms shown, and left in that form to be applied to the runners, and such stay pieces and guards can be sent to the parties using them to be applied by the users to fences already erected, and their construction when ready for use is represented in

Figs. 13 and 14.

The device is applied to the runners by lapping the ends a around the runners C, as shown in the drawings, the thin metal strips 25 being of sufficient length to have the ends overlap and lie upon the body of the strip in proximity to the runners, and the cord is secured in place by drawing the end or ends of the wire across the end of the metal strip where it 30 passes over the runner and then winding the end b around the runner, and by drawing the end or ends of the wires across the end of the strip a, which passes around the runners and on the lap side of the strip, such cord is not only attached to the runners, but the cross end forms a fastening for holding the lap end of the strip in place and securing such strip to the runner, so that it cannot be detached therefrom without unwinding the cord and loosen-40 ing the same or breaking the strip.

This construction of stay-piece and guard enables a thin metal strip to be used without destroying its flexibility, as the strip and cord coact to produce the strength required, and at the same time the two are independent of each 45 other, leaving each piece free to adapt itself to the give required without impairing the strength. Each part forming the strip preserves its own flexibility, and at the same time the device has the combined strength of the 50 metal strip and the wire cord, so that the device as a whole can be readily and quickly applied to the runners of the fence, and in use will preserve their strength and coact one with the other to resist strain and keep the fence 55 taut and in proper condition.

Having thus described my invention, what I

claim is—

1. As an improved article of manufacture, a stay-piece composed of a flat flexible strip of 60 metal and a flexible parallel wire cord adapted to be connected with said strip, substantially as described, and to lock each other in position on fence-wires, substantially as specified.

2. The combination of the main wires or 65 runners C with the flexible strips A, separately attached thereto, and wire or wires B, connected with said strips, substantially as described, and attached to the main wires at the sides of the strips and locking the parts in 70 position, substantially as described.

In testimony whereof I have affixed my sig-

nature in presence of two witnesses.

SYLVESTER F. DUNCAN.

Witnesses:
O. W. Bond,
ALBERT H. ADAMS.