

No. 611,648.

Patented Oct. 4, 1898.

C. E. ROBINSON.
STAY WIRE FENCE.

(Application filed Jan. 7, 1898. Renewed Sept. 2, 1898.)

(No Model.)

Fig. 1.

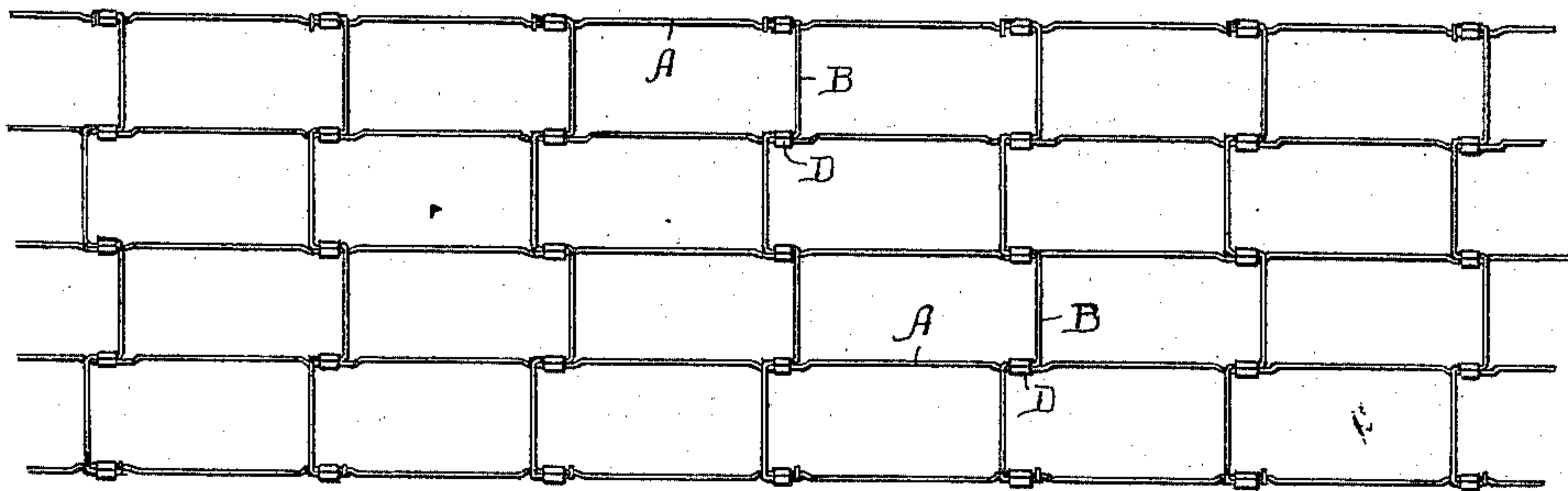


Fig. 4.

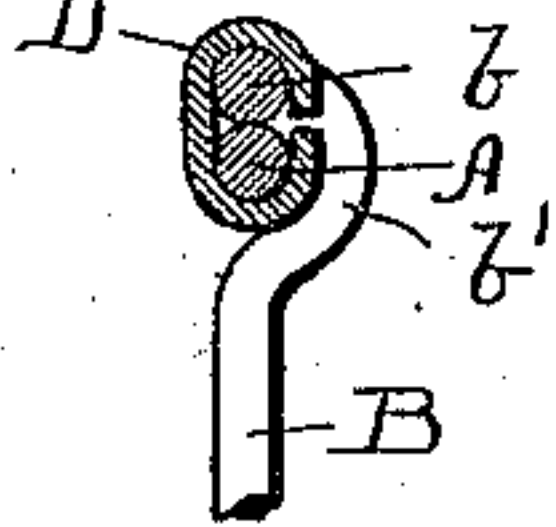


Fig. 2.

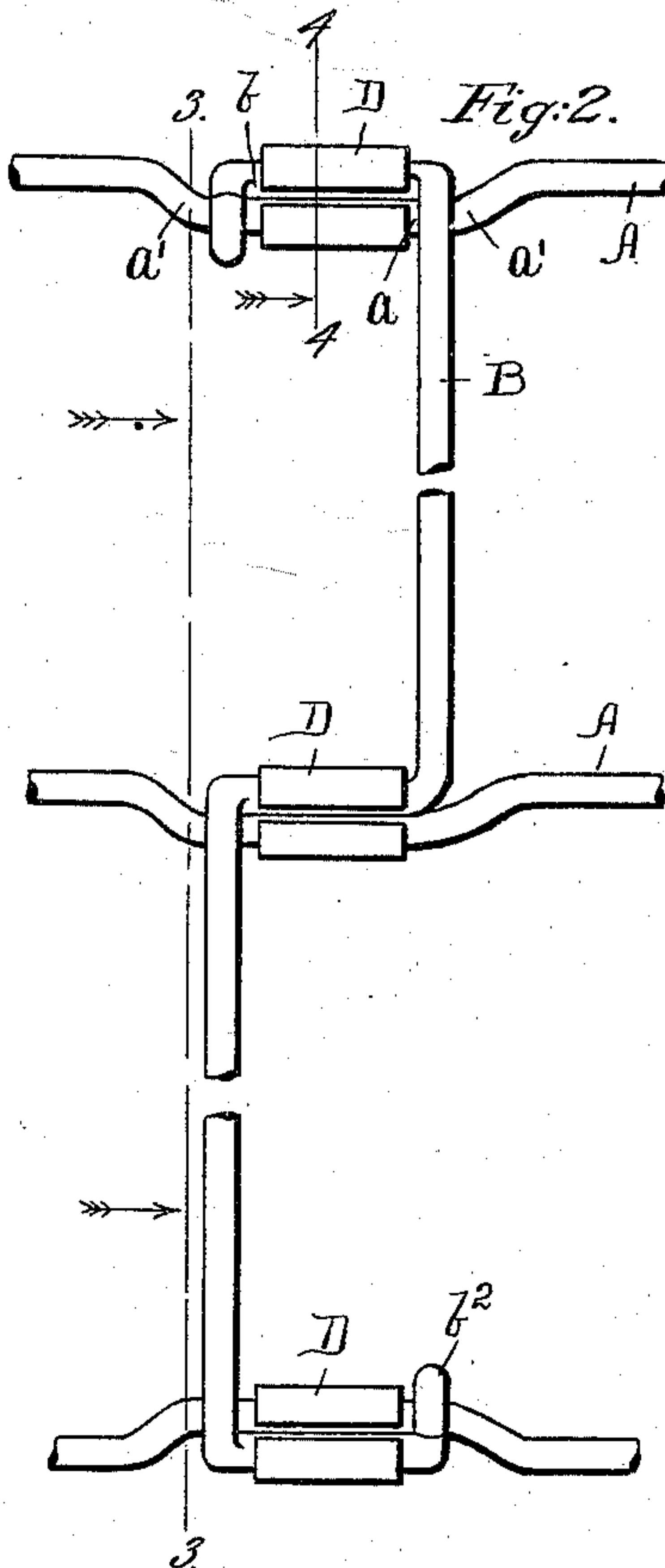
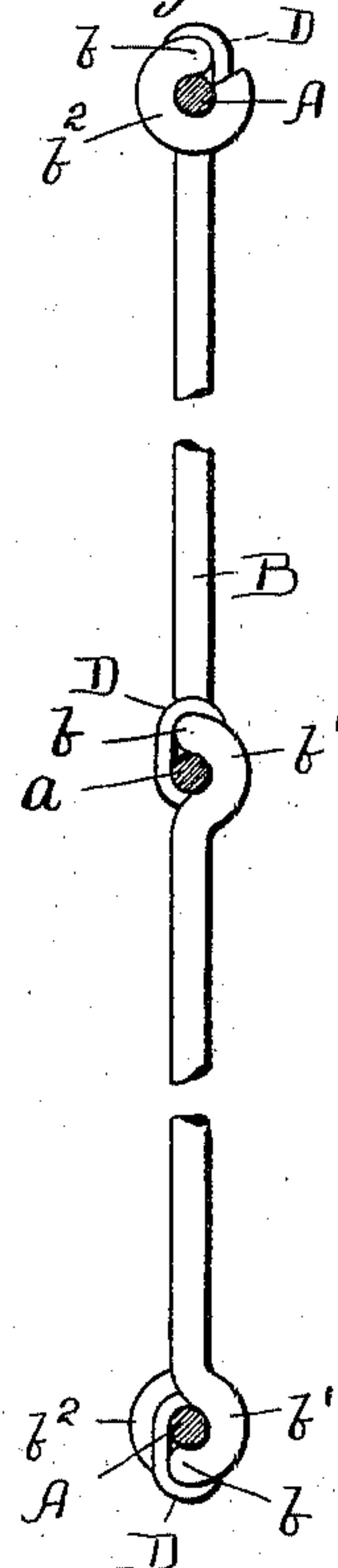


Fig. 3.



Witnesses:
A. W. Munday,
D. Barstow

Inventor:
CORY E. ROBINSON
By Munday, Everts & Adcock,
his attorneys.

UNITED STATES PATENT OFFICE.

CORY E. ROBINSON, OF JOLIET, ILLINOIS.

STAY-WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 611,648, dated October 4, 1898.

Application filed January 7, 1898. Renewed September 2, 1898. Serial No. 690,149. (No model.)

To all whom it may concern:

Be it known that I, CORY E. ROBINSON, a citizen of the United States, residing in Joliet, in the county of Will and State of Illinois, have invented a new and useful Improvement in Woven-Wire or Stay-Wire Fences, of which the following is a specification.

My invention relates to improvements in woven or stay wire fences.

The object of my invention is to provide a woven or stay wire fence of a simple, efficient, strong, and durable construction and of such a nature as to be capable of being quickly and cheaply manufactured by automatic machinery.

In my invention the transverse or stay wire is provided with a series of short bends at right angles to the stay, so that these short bends will lie parallel to the strand-wires, and the stay is secured to the strand-wires by clips, preferably of sheet metal, which embrace the strand-wire and the parallel portion of the stays at each crossing, and each strand-wire is provided with a bend forming shoulders on each side of the bent portion of the stay and of the clip to securely lock the stays in position.

In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of a short section of stay-wire fence embodying my invention. Fig. 2 is an enlarged detail side elevation. Fig. 3 is a cross-section taken on the line 3 3 of Fig. 2 and looking in the direction of the arrow, and Fig. 4 is a detail cross-section on line 4 4 of Fig. 2.

In the drawings, A A represent the fence or strand wires. B B are the transverse or stay wires, and D D the clips by which the stay-wires are secured to the strand-wires.

Each of the strand-wires A is provided with a bend or offset portion *a*, which is embraced by the clip D and which bent portion forms shoulders *a' a'* on each side of the bend where the stay-wire is clipped to the strand-wire to better secure or lock the stay-wire in place. Each of the stay-wires B is provided with a series of right-angle bent portions *b*, which extend parallel with the strand-wires A for the width of the clip D, and each of the stay-wires is also provided or preferably provided at each crossing with a curved portion or bend *b'*, extending in a plane at right angles

to the plane of the fence, so that the right-angled portions *b*, which extend in the plane of the fence and parallel to the strand-wire A, may lie on top of the strand-wire, as is clearly shown in the drawings at Fig. 3. The extreme ends of the stay-wire at the upper and lower edges of the fence are provided with bends or coils *b²* about the marginal strand-wires A, as clearly illustrated in Figs. 2 and 3 of the drawings, to give a smooth finish and to better unite the stay-wires with the strand-wires at each crossing of the stay-wires with the strand-wire. The clip D is bent about the strand-wire and the right-angled portion of the stay-wire, which extends parallel with the strand-wire, thus firmly uniting the strand and stay wires together. The clip D may preferably be a sheet-metal clip, in which case a single coil of the clip about the wires will serve to firmly secure them together. If desired, instead of employing a sheet-metal clip, the clip may be formed of wire; but in this case the clip should be given more than one coil about the wires. As in my invention the portion of the stay-wire which is embraced by the clip extends at right angles to the stay and parallel to the strand-wire, the strain and tension upon the strand or fence wires does not cause any strain upon the clips uniting the stay with the strand wires or tend to loosen the stay from the strand wires.

I claim—

1. In a woven or stay wire fence the combination with the strand-wires having bends *a* and shoulders *a' a'* formed therein, of stay-wires having at each crossing of the strand-wires a right-angle bent portion *b* extending parallel to the strand-wire, and a curve or bend *b'* about the strand-wire in a plane transverse to that of the fence, and clips D embracing the parallel portions of the strand and stay wires, substantially as specified.
2. The combination with the strand-wires, of a stay or transverse wire having right-angle bends *b* therein extending parallel to the strand-wires, and clips embracing the strand-wires and the right-angle bent portions of the stay-wires, substantially as specified.
3. The combination with the strand-wires, of a stay or transverse wire having right-angle bends *b* therein extending parallel to the

strand-wires, and clips embracing the strand-wires and the right-angle bent portions of the stay-wires, and the extreme ends of the stay-wires having bends b^2 about the marginal strand-wire, substantially as specified.

5 4. The combination with the strand-wires, of a stay or transverse wire having right-angle bends b therein extending parallel to the strand-wires, and clips embracing the strand-
10 wires and the right-angle bent portions of

the stay-wires, and the extreme ends of the stay-wire having bends b^2 about the marginal strand-wire, and the strand-wires having bent portions a and shoulders a' at the crossings of the stay-wire, substantially as 15 specified.

CORY E. ROBINSON.

Witnesses:

H. M. MUNDAY,
EDMUND ADCOCK.