(No Model.)

H. C. FRICKE.

FASTENER FOR ELECTRIC WIRES.

No. 525,891. Patented Sept. 11, 1894.

Fig. 1.

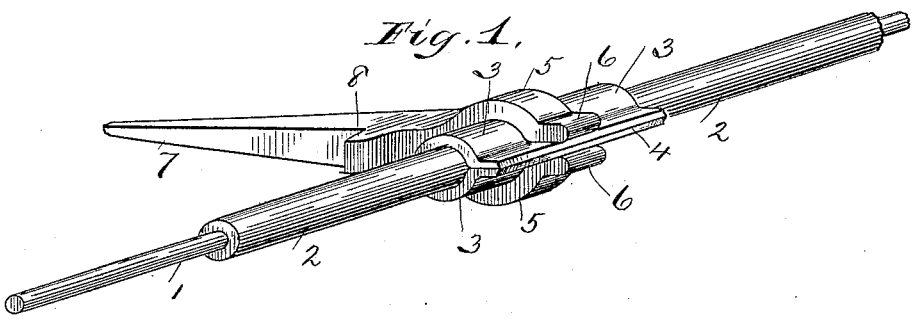


Fig. 2.

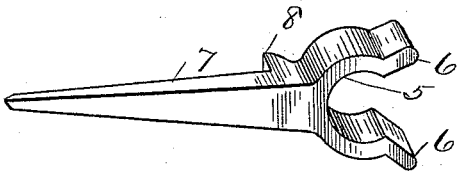


Fig. 3.

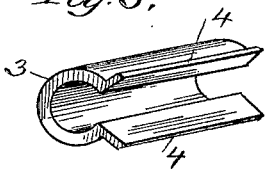
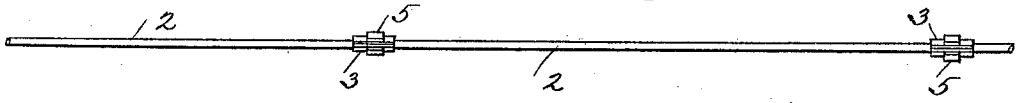


Fig. 4.



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UNITED STATES PATENT OFFICE.

HARRY C. FRICKE, OF PITTSBURG, PENNSYLVANIA.

FASTENER FOR ELECTRIC WIRES.

SPECIFICATION forming part of Letters Patent No. 525,891, dated September 11, 1894.

Application filed June 14, 1894. Serial No. 514,557. (No model.)

To all whom it may concern:

Be it known that I, HARRY C. FRICKE, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Fasteners for Electric Wires; 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved fastener for electric wires, and it consists in a metal spike provided with an open head, adapted to be clamped about the wire, or about a piece of insulation surrounding the same, together with the peculiar construction of the insulating piece, as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a perspective view of my improved fastener shown in connection with a section of wire, said fastener being constructed and arranged in accordance with my invention. Fig. 2 is a perspective view of the fastener showing the head open to receive the wire before clamping. Fig. 3 is a perspective view of the insulator open to receive the wire. Fig. 4 is a side elevation of a wire attached in position by means of my improved fastener.

To put my invention into practice I provide a spike 7 of a suitable length, and form thereon a head, consisting of a circular recessed portion 5, and outwardly extending ends 6. This head and spike I prefer to make of malleable iron in order that the head may be bent together as shown at Fig. 1 on the drawings. Arranged within the head 5 is a piece of vulcanite or other suitable insulating substance 3, formed by bending the body portion 3 in the form of a cylinder, and the edges 4 in radial lines from said body portion. This insulator 3 when open will admit of the wire 1—2 being placed therein, and clamped tightly about the said wire by means of the head 5 of the fastener as will be seen by reference to Fig. 1 of the drawings. Arranged at a suitable position at one side of the spike 7 is an offset or shoulder 8, which will prevent the spike being driven too far into the wood or other surface upon which the fastener is used. In operation, the insulation 3 is first placed over the wire 1—2, and the head over the insulation. By means of a hammer or other suitable tool the head 5 is forced closely about the insulation, thereby clamping the same rigidly about the wire 1—2. The spike 7 is now driven into the wood or other substance until stopped by the shoulder 8, and by first attaching a number of these fasteners at regular intervals along the wire, the operator may stretch each section and drive the fasteners with but little trouble.

When fitting buildings with heavy light wires with the ordinary porcelain insulators, it requires the service of two men, the one to tie the wire and the other to stretch the same. By means of a fastener constructed as described, one person can easily stretch and secure the wires in position, thereby saving both time and labor.

By using the insulating material between the head 5 and the wrapping of the wire 1, a greater factor of safety is obtained, and the said insulating material will prevent the head from breaking or otherwise cutting the wrapping of the wire while the said head is being clamped in position.

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

1. In combination with a fastener substantially as described, the insulating piece 3 bent in the form of a cylinder when closed, and having radial projecting edges, as and for the purpose described.

2. A fastener for electric light wires, consisting of the spike 7 having an integral shoulder 8 and open head 5 bent in the form of a circle, the outwardly projecting ends 6 as a means for driving the said spike, the insulating piece 3 bent in the form of a cylinder when closed and provided with radial projecting edges, substantially as and for the purpose described.

In testimony that I claim the foregoing I hereunto affix my signature this 19th day of March, A. D. 1894.

HARRY C. FRICKE. [L. S.]

In presence of—
E. P. JONES, Jr.,
M. E. HARRISON.