

No. 692,529.

Patented Feb. 4, 1902.

G. J. KNITTLE.  
HANGER FOR AERIAL CABLES.

(Application filed Sept. 10, 1901.)

(No Model.)

Fig. 1.

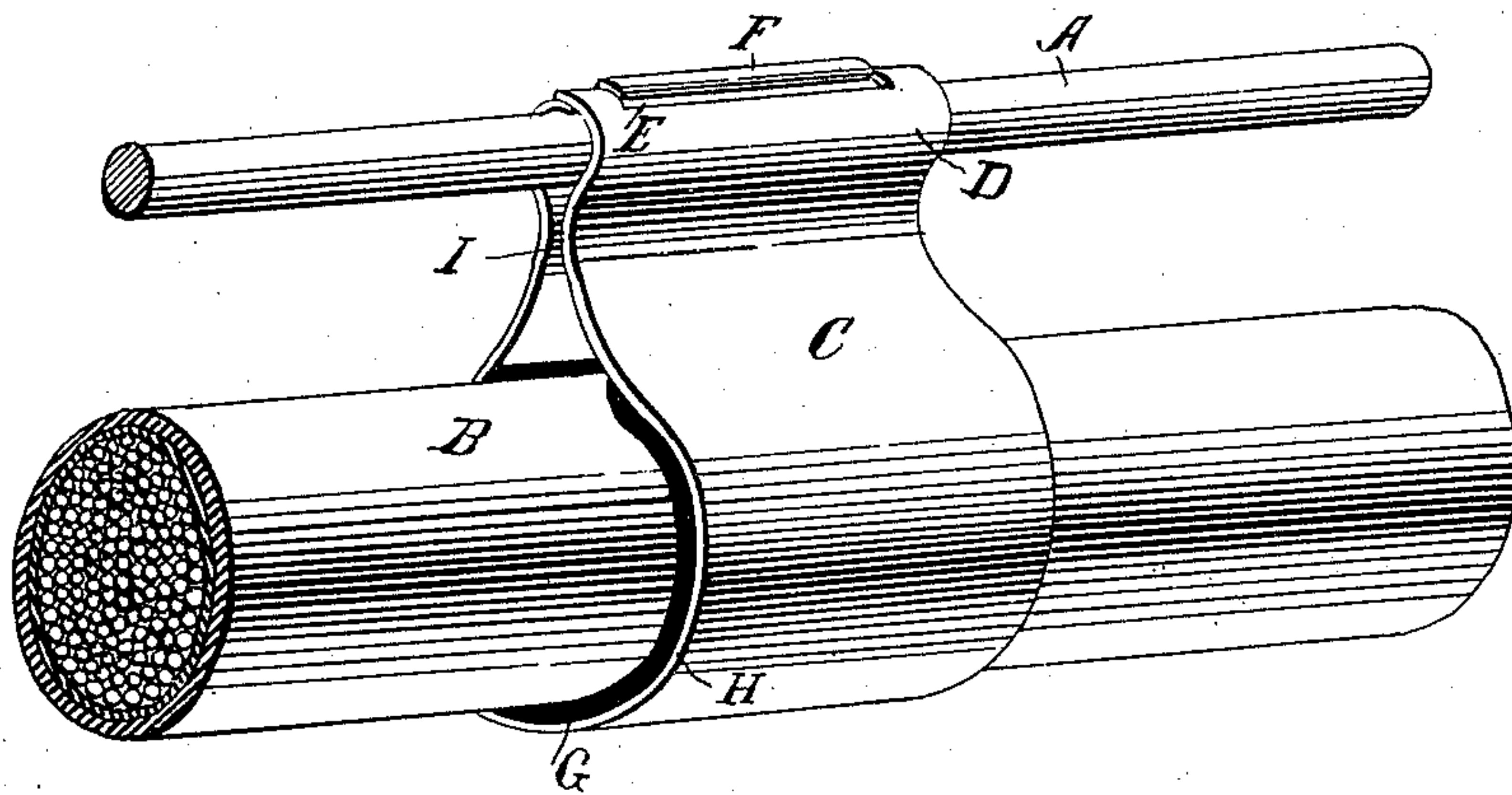


Fig. 2.

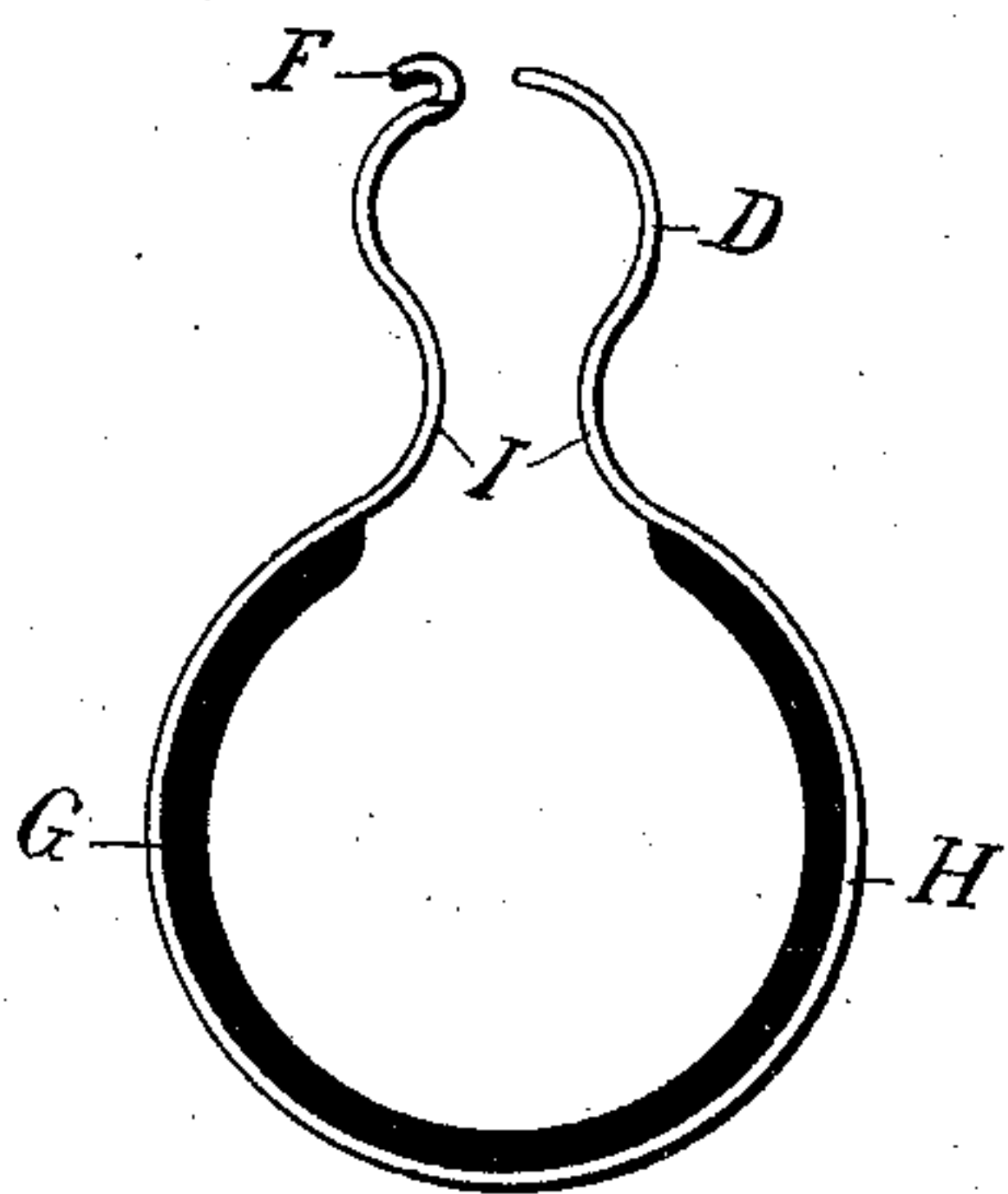
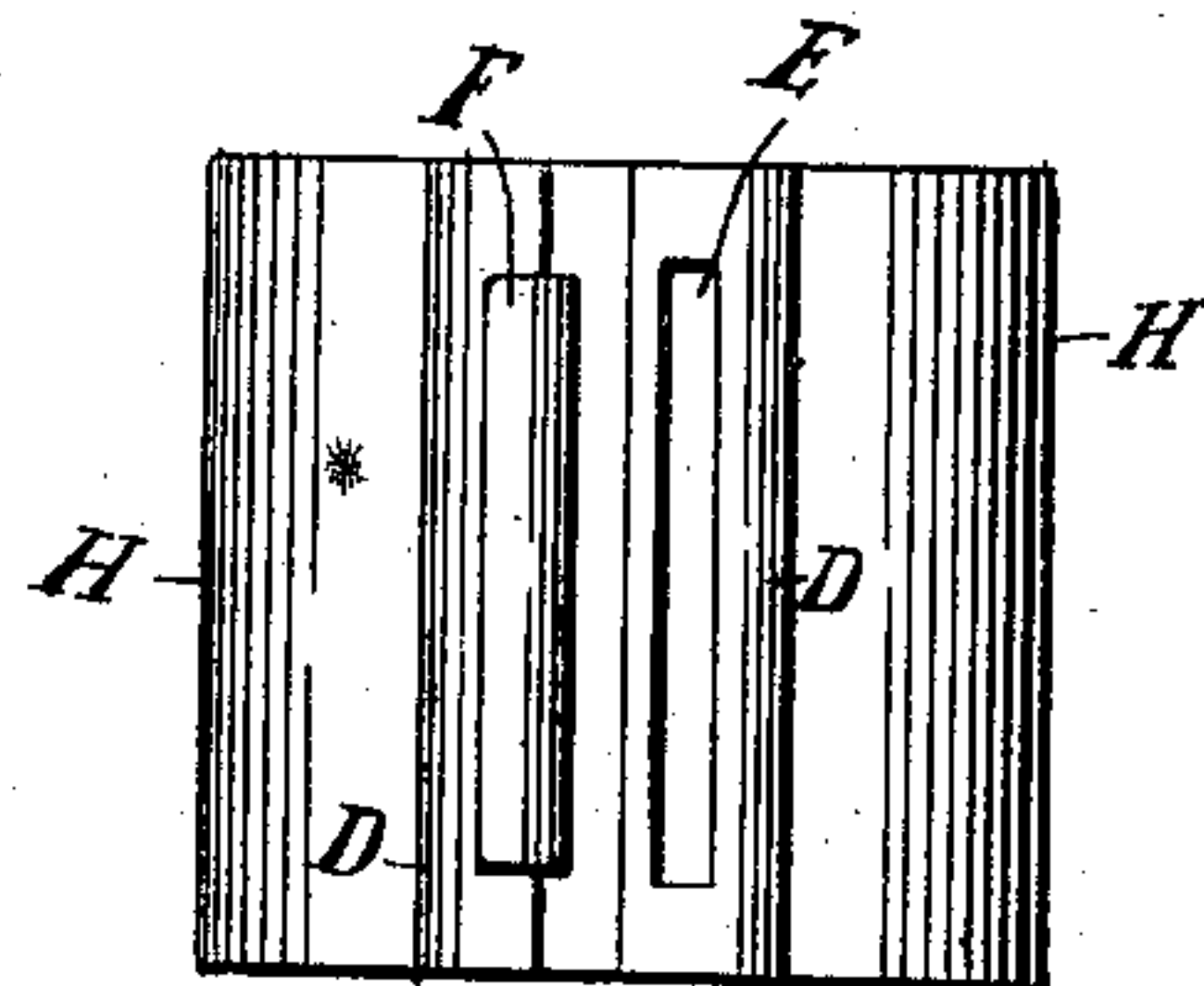


Fig. 3.



Witnesses:

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# UNITED STATES PATENT OFFICE.

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## HANGER FOR AERIAL CABLES.

SPECIFICATION forming part of Letters Patent No. 692,529, dated February 4, 1902.

Application filed September 10, 1901. Serial No. 74,950. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE JOSEPH KNITTLE, a citizen of the United States of America, and a resident of Wheeling, county of Ohio, and State of West Virginia, have invented certain new and useful Improvements in Hangers for Aerial Cables, of which the following is a specification.

My invention relates to certain new and useful improvements in hangers for aerial cables, and more particularly to a hanger for suspending the aerial cables used for inclosing telephone, telegraph, and other wires from the usual messenger or traveling wire.

The object of my invention is to provide a hanger for aerial cables that will dispense with the necessity of tying the cables to the messenger-wire with rope or cord.

My invention further aims to provide a hanger of the above-referred-to class that will be extremely simple in its construction, strong, durable, and comparatively inexpensive to manufacture; furthermore, a hanger that will effectually insulate the cable from the messenger-wire, thus preventing the said cable from being charged with electricity when lightning strikes the messenger-wire or when charged wires come in contact with the said messenger-wire.

My invention consists of a sheet-metal clip adapted for securing the cable and messenger-wire in fixed positions with relation to each other.

Furthermore, it consists in the novel construction and arrangement of parts, which will hereinafter be fully described, and specifically pointed out in the claims appended hereto.

In describing my invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein similar letters of reference designate like parts throughout the several views.

Figure 1 is a perspective view of my invention, showing it applied in the manner in which I contemplate using it. Fig. 2 is an end view of my invention detached, showing its ends unclasped. Fig. 3 is a top plan view of the same.

In the drawings, A designates the messenger-wire, and B the cable.

C is the hanger embodying my invention.

Said hanger C is formed, preferably, from a thin sheet-metal blank, which is bent or turned back upon itself, forming a loop H, adapted to encircle the cable B. The sides of the said hanger above the loop H are bent or flexed inward, so as to almost meet, as shown at I, and are then flexed outward and inward again, so as to allow the ends thereof to meet and to form a second loop D. In one of the ends of the hanger is provided a longitudinal slot E, and on the opposite end thereof is provided a rearwardly-projecting tongue or bill F, adapted to engage the slot E to clasp said ends together. The tongue or bill F, as is clearly shown in Fig. 2, is bent backward and downward, so as to lie in substantially the same plane as the face of the loop D, over which it projects, the object of this form or construction being to provide as nearly as possible a smooth upper surface for said loop D. By this construction the cable-buggy may be passed over the messenger-wire to which my hangers are attached with little or no hindrance from said tongues or bills. On the inner face of the loop H is secured a strip of rubber or other suitable insulating material G, adapted to insulate the said cable from the hanger.

The hanger is preferably formed from spring metal, so that the ends thereof when disengaged will stand apart, as shown in Fig. 2, and consequently when said ends engage, because of the resiliency of the metal, the tongue or bill F will be firmly held in the slot E.

In placing the hanger in position the sides thereof are spread apart, and it is forced over the cable until said cable rests within the loop H thereof. Then, spreading the ends apart, the loop D is placed about the messenger-wire, and, forcing the ends together over the said messenger-wire, the tongue or bill F is inserted in the slot E, when, by reason of the resiliency of the metal, as hereinbefore mentioned, said ends will be securely clasped. To remove the hanger, the reverse of the foregoing operation is necessary.

It will be noted that the construction of the hanger will permit the cable to expand without causing any injury to either the cable or the hanger itself. Furthermore, by my invention is provided an extremely sim-



ple device of the character mentioned, the construction of which is such that it may be conveniently and quickly adjusted and clasped in position, and may be removed  
5 without injury to either the cable or to itself. It will be further noted that various minor changes may be made in the form and construction of my invention without departing from the general spirit or scope thereof.

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

1. A hanger for aerial cables, consisting of a sheet-metal strap bent to form a loop at its  
15 base adapted to encircle a cable, and its terminals bent to form a second loop for encircling a messenger-wire, one terminal of the strap being provided with a transverse slot and the opposite terminal with a rearwardly-  
20 extending tongue adapted to interlock said terminals, substantially as described.

2. A hanger for aerial cables consisting of a thin spring-metal strap bent to form a cable-embracing band at its base, the terminals  
25 of said strap bent outward and inward forming a second band for embracing a messenger-wire, one of said terminals provided with a transverse slot, and the opposite terminal with a rearwardly-extending tongue or bill  
30 adapted for engagement with said slot to interlock said terminals over the messenger-wire, substantially as described.

3. A hanger for aerial cables consisting of a thin spring-metal strap bent to form a cable-embracing band at its base, an insulating-band on the inner face of said cable-embracing band adapted to insulate the cable from said strap, the terminals of said strap beyond said cable-embracing band each bent  
35 to form a compound curve, one of said terminals provided with a transverse slot and the other with a rearwardly-extending tongue adapted to engage the said slot to interlock the said terminals over the messenger-wire,  
40 substantially as described.

4. A hanger for aerial cables consisting of a thin spring-metal strap bent to form a loop at its base adapted for yieldingly embracing a cable, a band of insulating material mounted on the inner face of said loop, a second  
45 loop formed by the ends of said strap, the second loop being adapted for embracing a messenger-wire, one terminal of the strap provided with a transverse slot and the opposite terminal with a rearwardly-extending  
50 tongue adapted to interlock said terminals over a messenger-wire, substantially as described.

Signed by me at Wheeling, West Virginia, this 3d day of June, 1901.

GEORGE JOSEPH KNITTLE.

Witnesses:

ELBERT MITCHELL,  
J. WM. HARRIS.