F. D. OGDEN.

CABLE CLIP.

APPLICATION FILED DEC. 2, 1909.

955,539. **Patented Apr. 19, 1910.**

Fig. 1,

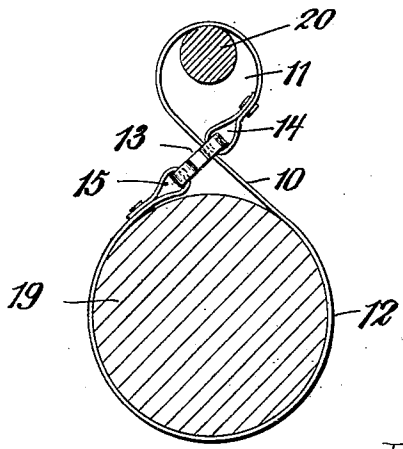


Fig. 2,

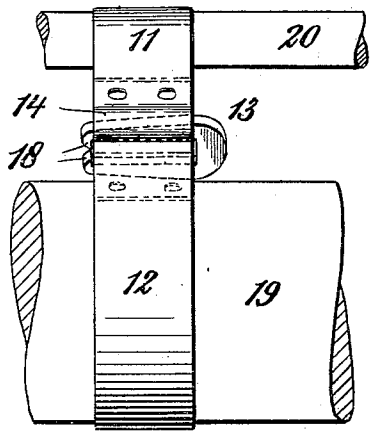


Fig. 3,

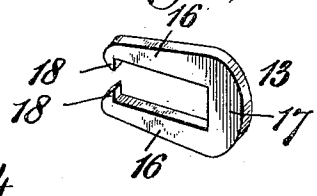


Fig. 4,

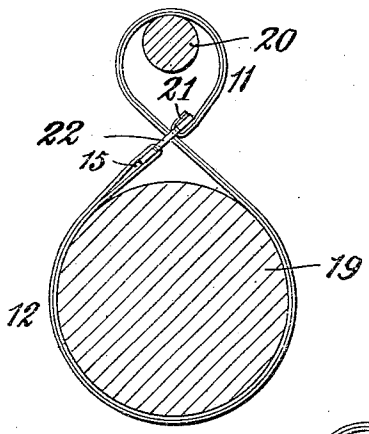


Fig. 5,

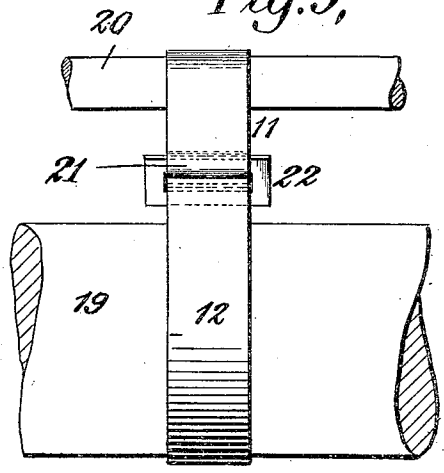
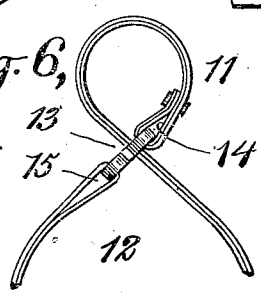


Fig. 6,



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CABLE-CLIP.

955,539. Specification of Letters Patent. Patented Apr. 19, 1910.

Application filed December 2, 1909. Serial No. 530,906.

To all whom it may concern:

Be it known that I, FREDRIC D. OGDEN, a citizen of the United States of America, and a resident of Bayonne, county of Hudson, and State of New Jersey, have invented certain new and useful Improvements in Cable-Clips, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to improvements in cable clips of the type employed for supporting cables from sustaining wires.

The main objects of my invention are to simplify the construction and reduce the cost of manufacture of this class of article, to facilitate the placing of the clip in position and the removal thereof, and to reduce the liability of accidental displacement.

To these ends my invention consists in certain novel details of construction and combinations of parts, such as will be specifically pointed out hereinafter, and in order that my invention may be thoroughly understood, I will now proceed to describe in detail certain embodiments thereof, having reference to the accompanying drawings illustrating the same, and will then point out the novel features in claims.

In the drawings: Figure 1 is a view in side elevation of a cable clip constructed in accordance with my invention, showing the same in use. Fig. 2 is a view in front elevation of the same. Fig. 3 is a detail perspective view of a portion of the clip which I term the "bridge piece," showing the same as removed from the suspension element. Fig. 4 is a view in side elevation of a modified form of the clip showing the same in use. Fig. 5 is a view in front elevation of the same. Fig. 6 is a detail fragmentary view showing the double form of strap construction illustrated in Fig. 4, but with the extremity riveted to form a closed loop as is shown in Fig. 1, instead of an open loop as is shown in Fig. 4.

The cable clip comprises a suspension element 10, the ends of which are reversely curved to form an upper loop 11 and a lower loop 12, the configuration, as a whole, somewhat resembling the letter S. The extremities of the suspension piece are, however, connected across the body portion thereof by means of a bridge piece 13, whereby the structure when completed resembles in configuration the digit 8. In the form shown in Figs. 1 and 2 the terminals of the strip, of which the suspension element is formed, are turned backward upon themselves and riveted to form closed loops or eyes 14 and 15 for engagement with the said bridge piece. The said bridge piece 13 is of yoke-like form, comprising two arms 16 connected at one end by a body portion 17, the said arms being provided with projections 18 at their outer extremities. There is a space left between the two projections 18 which permits the bridge piece to be freely inserted into position in the eyes 14—15. When so inserted in position the bridge piece straddles the suspension element 10, as will be well understood by reference to the drawings.

To apply the clip the suspension element is first slipped on to the cable 19 and then on to the sustaining wire 20, the respective loop portions 12 and 11 embracing the cable and wire 19—20 as is shown. The bridge piece 13 is then inserted into position and the clip is ready to perform its function. The projections 18 will prevent accidental displacement of the bridge piece and hence disconnection of the parts, as will be well understood. To remove the clip it is only necessary to slightly lift the cable with respect to the suspension wire so as to permit the end eye portions 14—15 of the suspension element to be drawn together when the bridge piece may be removed laterally and the suspension element slipped out of place.

Instead of forming the suspension element of a single strip as is shown in Fig. 1, the same may be extended as is shown in Figs. 4 and 6, so that the strap is double throughout. The central portion then forms the loop 15 while the opposite ends are bent over to form the loop 14 as is shown in Fig. 6. In Fig. 4 I have shown the ends bent to form an open loop or hook 21 instead of the closed loop or eye 14, a closed bridge piece of ring-like form being shown as engaged by the loop 15, formed at the middle of the strap. In this construction the strap is partially threaded through the bridge piece 22 to start with, the strap being bent in the middle over one portion of the bridge piece, the said bridge piece being designed to remain in such engagement with the suspension element. Thereafter when the clip is to be applied the strap is caused to surround the cable, the free end is threaded through the bridge piece, is thereafter caused to encircle the sustain-

ing wire 20, and the extremity 21 is then hooked into place as is shown in Figs. 4 and 5. When it is desired to remove the clip it is only necessary to slip off the hook or open loop 21 from engagement with the bridge piece in order for the clip to be disengaged from the sustaining wire, and thereafter, the clip may be disengaged from the cable by withdrawing the loop end through the bridge piece.

In either of the forms above mentioned, it will be seen that a simple yet strong cable clip is provided, and one which may be readily applied and removed with a minimum of effort.

What I claim is:

1. A cable clip provided with a flexible suspension element substantially in the form of the letter S, and a U-shaped bridge piece connecting the extremities thereof across the intermediate portion, the said bridge piece being removable endwise from the said suspension element.

2. A cable clip comprising a suspension element composed of a metallic strap bent substantially into the form of the letter S, the extremities thereof being bent backward upon themselves to form loops for engagement with a bridge piece, and a U-shaped bridge piece adapted to be inserted and removed lengthwise through the said loops across the intermediate portion of the suspension element.

3. A cable clip comprising a suspension element composed of a metallic strap in the form of the letter S, the extremities thereof being in the form of closed loops for engagement with the bridge piece, and a U-shaped bridge piece adapted to be inserted and removed lengthwise through the said loops across the intermediate portion of the suspension element, the extremities of the U-shaped bridge piece being provided with projections, substantially as set forth.

In witness whereof I have hereunto set my hand this 27 day of November, 1909.

FREDRIC D. OGDEN.

Witnesses:

A. M. FINN,

M. KEMPE.