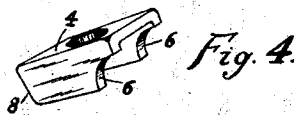
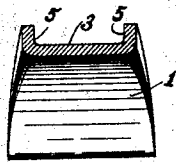
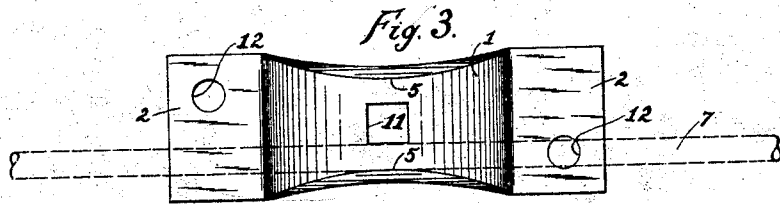
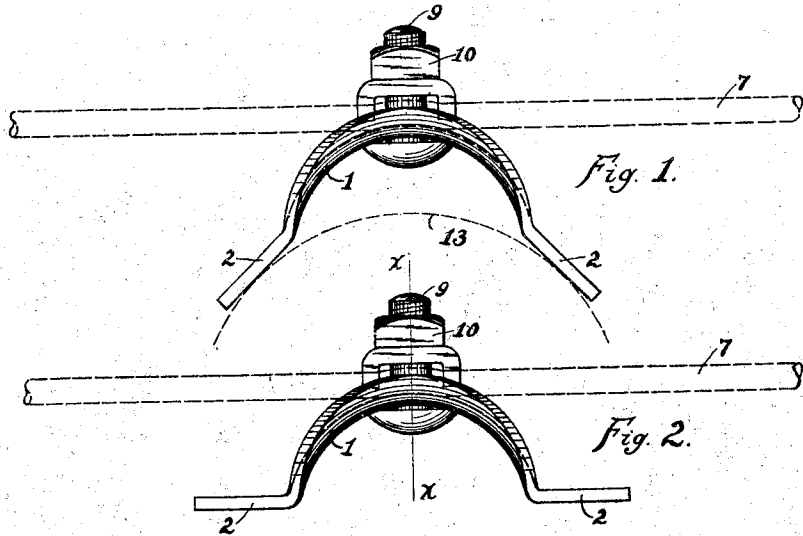


938,216.

Patented Oct. 26, 1909.



WITNESSES:
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Frederick R. Parker

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MESSENGER-HANGER.

938,216.

Specification of Letters Patent.

Patented Oct. 26, 1909.

Application filed July 31, 1908. Serial No. 446,309.

To all whom it may concern:

Be it known that I, CLARENCE E. COOK, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Messenger-Hanger, of which the following is a specification, reference being had to the accompanying drawings, illustrating same.

My invention relates to clamps and more in particular to clamps adapted to support messenger wires or strands leading from one pole to another in electrical systems.

The principal objects of my invention are to provide an improved messenger clamp which has a greater holding power on the rope or strand to be connected therein, than other such clamps heretofore used; and to provide an improved construction in such a clamp whereby same offers much more resistance to being pulled or torn from a pole or support, than other such clamps heretofore used.

Other objects will be apparent from the following specification.

In the drawings, Figure 1 is a bottom view of the improved messenger hanger of this invention, shown in position to be attached to a pole and a messenger strand, the pole and messenger strand being shown in dotted lines; Fig. 2 is a view of a modification of the clamp shown in Fig. 1, taken the same as Fig. 1, this clamp being adapted to be mounted to a flat wall or support; Fig. 3 is a side elevation of the clamp shown in Fig. 2, with the clamping bolts and the small clamping jaw removed; Fig. 4 is a perspective view of the clamping jaw used in the clamps of Figs. 1 and 2; and Fig. 5 is a cross-sectional view of the larger clamping jaw shown in Fig. 2, taken on line *x x* of Fig. 2.

Like characters refer to like parts in the several figures.

Messenger hangers heretofore used are very liable to be pulled or torn from their supports by excessive strains thereon, because they are mounted in a vertical position on the pole or support and are not of sufficient horizontal dimensions to resist excessive strains thereon.

The messenger hanger of this present invention is not mounted in a vertical position but in a substantially horizontal position, on a pole or support, thereby being able to

withstand considerable horizontal strain thereon from the tension in the messenger strand clamped therein.

The clamp or hanger of this invention comprises a sheet-metal portion 1 formed with flat end portions 2 2 thereon as shown in Fig. 1, to fit a round pole, or as shown in Fig. 2 to fit a flat support. The side edge portions of the portion 1 are formed as shown in the drawings, into a trough-like portion 3 at the middle of the portion 1, as shown in Fig. 5. In the trough-like portion 3 is placed a channel-shaped portion 4, preferably formed of sheet-metal stock, between the flanges 5 5 of the trough-like portion 3, as shown in Figs. 1 and 2. The channel-shaped portion 4 is cut away at one end as at 6 6 to accommodate a rope or strand 7 between the portions 6 6 and one of the flange portions 5 5, as shown in the drawings, the opposite end of the channel-shaped portion 4 being tapered as at 8 so that when the portion 4 is clamped down into the trough-like portion 3 the tapered portion 8 will bear against one of the flange portions 5 and thereby force the curved portions 6 6 tightly against the rope or strand 7. Extending through the trough-like portion 1 and the channel-shaped portion 4 is a bolt 9 having a nut 10 thereon by means of which the portions 1 and 4 may be drawn tightly together. The portion 1 is provided with a polygonally formed hole 11 therethrough to prevent the bolt 9 from turning therein. The trough-like portion 3 of portion 1 is convex under the channel-shaped portion 4, so as to put a slight offset in the rope or strand 7 when the portions 1 and 4 are tightly clamped together, and thereby help prevent the rope or strand 7 from slipping endwise through the clamp. This offset in the rope or strand, the clamping portions 6 6, and one side of the trough-like portion 3, firmly hold the rope or strand 7 in place against considerable stress therein.

It will readily be seen that the portions 2 2, having a horizontal arrangement instead of the ordinary vertical arrangement, firmly hold the clamp or hanger in place on the pole or support, and form a great resistance to forces tending to pull the clamp or hanger horizontally from its support. The end portions 2 2 are provided with holes 12 12 therein to receive mounting screws or bolts for mounting the clamp or hanger in place. The

horizontal arrangement of portion 1 spreads the holes 12 12 apart horizontally and therefore prevents the bolts extending through these holes from both extending into the pole
5 between the same fibers thereof, as in the ordinary messenger hangers, and therefore from splitting the pole as they sometimes do in the ordinary hangers.

10 In Fig. 1 the dotted line 13 represents the curved surface of a pole to which the clamp or hanger shown in Fig. 1 may be readily mounted. It will be seen that the channel-shaped portion 4 is reversible in the trough-like portion 3, that is, the curved clamping
15 surfaces 6 6 thereof may be placed toward either of the flanges 5 5 of the portion 1.

I do not wish to limit this invention to all of the particular details herein shown, as various modifications of same may be made
20 without departing from the scope of the appended claims.

What I claim as my invention is:

1. A clamp of the character described comprising a convexly formed trough-like portion having legs at the ends thereof for
25 mounting said trough-like portion in place, a clamping jaw coöperating with the trough-like portion for clamping a rope or strand substantially lengthwise of the trough-like
30 portion, and means for clamping the jaws together.

2. A clamp of the character described comprising a trough-like portion having mounting legs at the ends thereof, a channel-shaped
35 clamping jaw coöperating with the trough-

like portion for clamping a rope or strand in the trough-like portion substantially lengthwise of same, and means for clamping the trough-like portion and the channel-shaped portion together.

3. A clamp of the character described comprising a trough-like portion having mounting legs at the ends thereof, a channel-shaped clamping jaw coöperating with the trough-like portion for clamping a rope or strand
45 in the trough-like portion substantially lengthwise of same, said channel-shaped portion being recessed at one end to accommodate a rope or strand and being tapered at the other end to wedge said recessed portions against the rope or strand, and means
50 for clamping the channel-shaped portion to the trough-like portion, for purposes substantially as described.

4. A clamp of the character described, comprising a pair of clamping jaws and means
55 for clamping them together, one of the said jaws being a channel-shaped portion formed in the shape of a convex curve along the channel portion and having legs at the ends
60 thereof for mounting the clamp.

As inventor of the foregoing I hereunto subscribe my name in the presence of two subscribing witnesses this 29th day of July, 1908.

CLARENCE E. COOK.

Witnesses:

H. S. COOK,

FREDERICK R. PARKER.