No. 769,639. PATENTED SEPT. 6, 1904.

H. R. SARGENT.

CLEAT FOR ELECTRIC CONDUCTORS.

APPLICATION FILED MAR. 26, 1902.

NO MODEL.

Fig. 1.

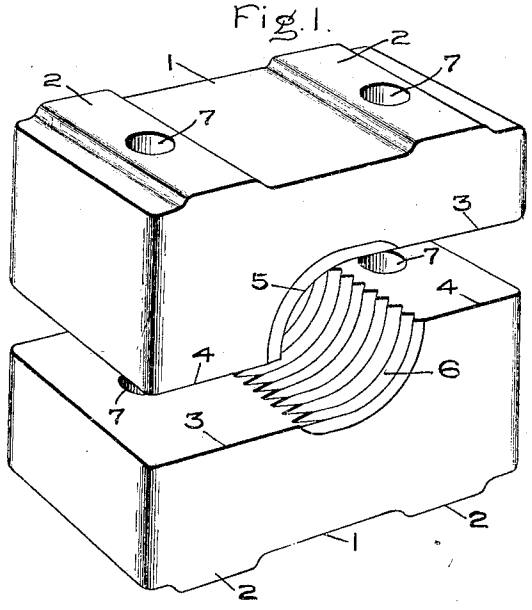


Fig. 2.

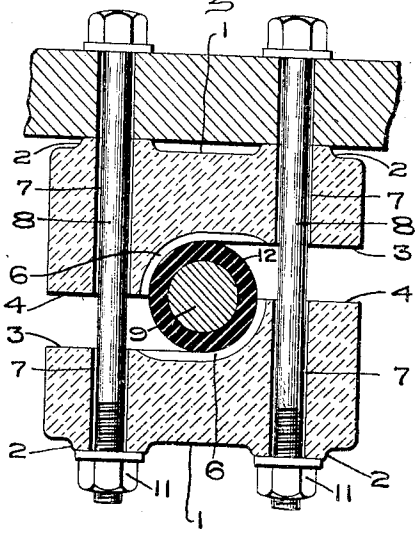
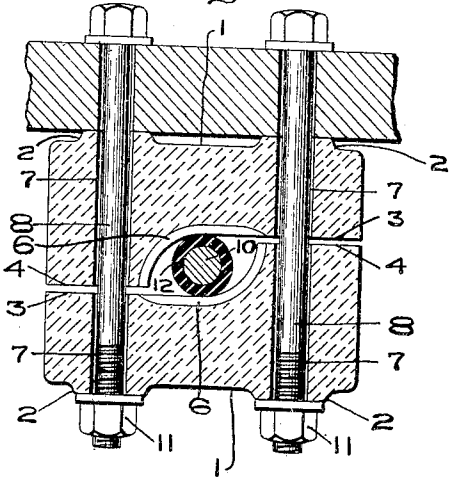


Fig. 3.



Witnesses:
George A. Thornton.
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No. 769,639. Patented September 6, 1904.

UNITED STATES PATENT OFFICE.

HOWARD R. SARGENT, OF SCHENECTADY, NEW YORK, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

CLEAT FOR ELECTRIC CONDUCTORS.

SPECIFICATION forming part of Letters Patent No. 769,639, dated September 6, 1904.

Application filed March 26, 1902. Serial No. 100,086. (No model.)

To all whom it may concern:

Be it known that I, HOWARD R. SARGENT, a citizen of the United States, residing at Schenectady, in the county of Schenectady, State of New York, have invented certain new and useful Improvements in Cleats for Electric Conductors, of which the following is a specification.

This invention relates to supports for electric conductors; and its object is to provide a cleat for house-wiring and the like which is simple and cheap to make and is capable of securely holding wires or cables of several different sizes.

To this end the invention consists in a cleat composed of two similar parts having their opposing faces provided with alternating high and low portions which form an opening between them varying in width as the parts approach or separate, the high portions serving to prevent lateral displacement of the conductor.

In the accompanying drawings, Figure 1 is a perspective view of the cleat. Fig. 2 is a cross-section showing the cleat attached to a ceiling or other overhead support and holding a large conductor, and Fig. 3 is a similar view of the cleat as it appears when holding a small conductor.

The cleat is composed of similar halves, one being reversed end for end to fit upon its fellow. Each half has one side 1 substantially flat except for two low parallel ribs 2, running lengthwise of it. The opposite side has a low portion 3 and a high portion 4, whose surfaces are planes preferably parallel with each other and with the side 1. The intermediate surface connecting these two portions is preferably a curve 5, and this portion and the adjacent part of the low portion 3 is roughened, as by means of transverse grooves 6. The point of tangency of the curved and low portions of the cleat is at the middle of the cleat, so that the conductor is automatically centered. The holes 7 for the fastening bolts or screws 8 pass through the high and low portions beyond the roughened surfaces and preferably through the ribs 2.

When the two parts of the cleat are assembled as shown, each high portion is opposite to the low portion of the other part and the roughened surfaces 5 form an opening lengthwise of the cleat. If the halves of the cleat are widely separated, as shown in Fig. 2, this opening is large enough to receive a good-sized conductor 9; but if a small conductor 10 is to be held the halves of the cleat are brought near together, as shown in Fig. 3. In either case the curved faces 5 form opposing shoulders to keep the conductor centered in place and away from the screws. When the nuts 11 are tightened, the roughened surfaces embed themselves in the insulation 12, which covers the conductor, and prevent the latter from slipping through the cleat.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A cleat composed of similar halves, each comprising a high portion, a low portion, and an intermediate curved portion.

2. A cleat composed of similar halves, each comprising a high portion, a low portion, and a roughened curved intermediate portion.

3. A cleat composed of similar halves, each comprising a high portion, a low portion, and a grooved curved intermediate portion.

4. A cleat composed of similar halves, each comprising a high portion, a low portion, and a curved intermediate surface whose point of tangency with the low portion is at the middle of the cleat, whereby the conductor will be automatically centered.

In witness whereof I have hereunto set my hand this 25th day of March, 1902.

HOWARD R. SARGENT.

Witnesses:

BENJAMIN B. HULL,

HELEN ORFORD.