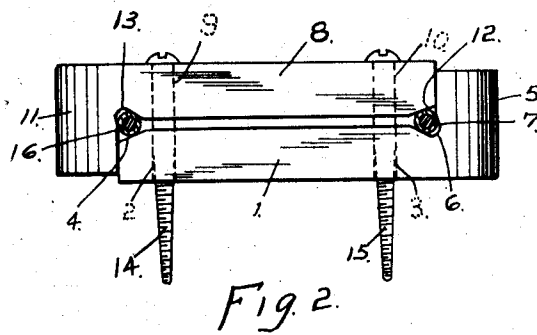
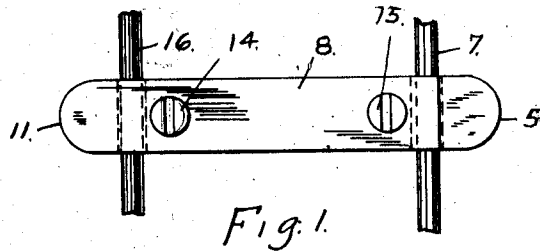


R. D. HILTY.
INSULATING CLEAT.
APPLICATION FILED APR. 5, 1912.

1,042,677.

Patented Oct. 29, 1912.



Witnesses
H. M. Gillespie
A. L. Phelps

Inventor
Robert D. Hilty

By C. O. Phelps
Attorney

UNITED STATES PATENT OFFICE.

ROBERT D. HILTY, OF CAREY, OHIO, ASSIGNOR OF ONE-HALF TO IRA N. ZEIS, OF CAREY, OHIO.

INSULATING-CLEAT.

1,042,677.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROBERT D. HILTY, a citizen of the United States, residing at Carey, in the county of Wyandot and State of Ohio, have invented certain new and useful Improvements in Insulating-Cleats, of which the following is a specification.

My invention relates to insulating cleats and is particularly directed to the provision of an improved type of insulating cleat which is calculated to insure the maintenance of multiple wires in a comparatively immovable and unreleasable relation. Considerable difficulty has been hitherto experienced in the utilization of cleats of this character in maintaining the adjacent wire in proper position during the securement of one wire. While one wire is being rigidly clamped in place, either by means of a tightening of the screw fastening device of the insulator, or through other clamping means, the tendency has been for the other wire to work loose. This is particularly true where there are utilized two superimposed blocks of insulating material having substantially parallel complementary grooves and adapted to clamp the wire between such blocks and within such grooves. This type of device is subject to the difficulty that the fastening of one end of the insulator and the consequent rigid securement of the wire contained between the insulator at this end, necessarily causes a spreading or elevation of the upper member at the opposite end. This spreading operation inevitably results in a lateral tendency to movement of the opposite wire and this disadvantageous feature is entirely obviated by my invention.

In the preferred embodiment of my invention, the cleat comprises two superimposed L-shaped elements which are interlocking in their nature and which have their legs so disposed and coöperative in such a manner as to absolutely insure against lateral spreading of the wires to any appreciable degree, regardless of the relative position of the two members particularly as regards closeness of fit. In other words, the wires retained between the clamping elements of my insulating cleat are retained against a lateral movement to any appreciable degree whether the cleats be tightly clamped together or loosely clamped together.

The preferred embodiment of my inven-

tion is shown in the accompanying drawings, in which similar characters of reference designate corresponding parts, and in which—

Figure 1 is a top plan view of my insulating cleat in assembled relation and showing the position of the wires therein, and Fig. 2 is a side elevation of my insulating cleat showing the wires therebetween, but in a comparatively uncompressed state.

In the drawings, it will be seen that the base element of my insulating cleat comprises a body portion 1 having spaced apertures extending vertically therethrough as at 2 and 3, having one end beveled as at 4 in a transverse manner and having the opposite end provided with a vertical arm 5. The inner juncture of this body portion and the vertical arm is provided with a transverse groove 6 within which fits the wire 7 in a manner apparent from the drawing. The complementary element of my insulating cleat is likewise comprised of a body portion 8, apertures 9 and 10, vertical piece 11, beveled portion 12 and groove 13 and is in effect a practical counterpart and duplicate of the base piece of my insulating element. These devices are adapted to be superimposed as stated and the wires are placed in the position shown in Fig. 2. In this position, it will be instantly apparent that it is practically impossible for the wires to move laterally outward because of the restraining influence of the vertical arms 5 and 11. The downward or upward movement of the wires is likewise prevented by means of the close fitting relation of the ends of the body portions and the vertical arms. It is usually desired to clamp the elements together by screws 14 and 15, although other clamping means may of course be utilized.

It will be apparent from this description of my invention that the parts of my insulating cleat are practically duplicate and are consequently readily made and shipped. In addition, the coactive parts of each insulating cleat may be placed together with the wires therebetween and during the period in which the screws 14 and 15 are being placed in position, the wires are effectually retained in a substantially accurate position. Furthermore, when the clamps are brought into close fitting relation, the wires 7 and 16 may be clamped closely between the transverse

beveled surfaces and the coacting grooves and all danger of working loose is practically precluded.

What I claim, is—

- 5 1. In an insulating cleat, L-shaped sections comprising long arms and end arms disposed transversely thereto and adapted to abut the ends of said long arms.
2. In an insulating cleat, sections of general L-formation comprising body portions adapted to extend in parallelism, and transverse end pieces abutting the ends of said body portions.
- 15 3. In an insulating cleat, sections of L-formation disposed in interfitting relation, transverse bevels on the ends of said body portions, and transverse grooves at the point of juncture of the legs of said L-shaped portions, said bevels and grooves serving to retain the wires therebetween.
- 20 4. In an insulating cleat, superposed sections having a plurality of transverse grooves therein, and depending lug formations protruding beyond the inner face of the adjacent section for preventing lateral movement of the wires away from each other.
- 25 5. In an insulating cleat, superposed sec-

tions having transverse grooves therein, each of said sections being apertured for 30 fastening screws, said apertures being to one side of the grooves for preventing lateral movement of the wires in one direction, and depending lug formations protruding beyond the inner face of the adjacent section for preventing lateral movement of the 35 wires in the other direction.

6. In an insulating cleat, L-shaped sections comprising long arms and end arms disposed transversely thereto, each of said 40 sections being apertured for fastening screws and having transverse grooves in one face between said apertures and said end arms.

7. In an insulating cleat, L-shaped sections comprising long arms and end arms 45 disposed transversely thereto and adapted to abut the ends of said long arms, each of said sections being apertured for fastening screws and having transverse grooves in one face between said apertures and said end arms. 50

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT D. HILTY.

Witnesses:

E. G. LAUGHLIN,
I. N. ZEIS.