

No. 710,297.

Patented Sept. 30, 1902.

R. S. PEIRCE.
INSULATOR.

(Application filed Feb. 10, 1902.)

(No Model.)

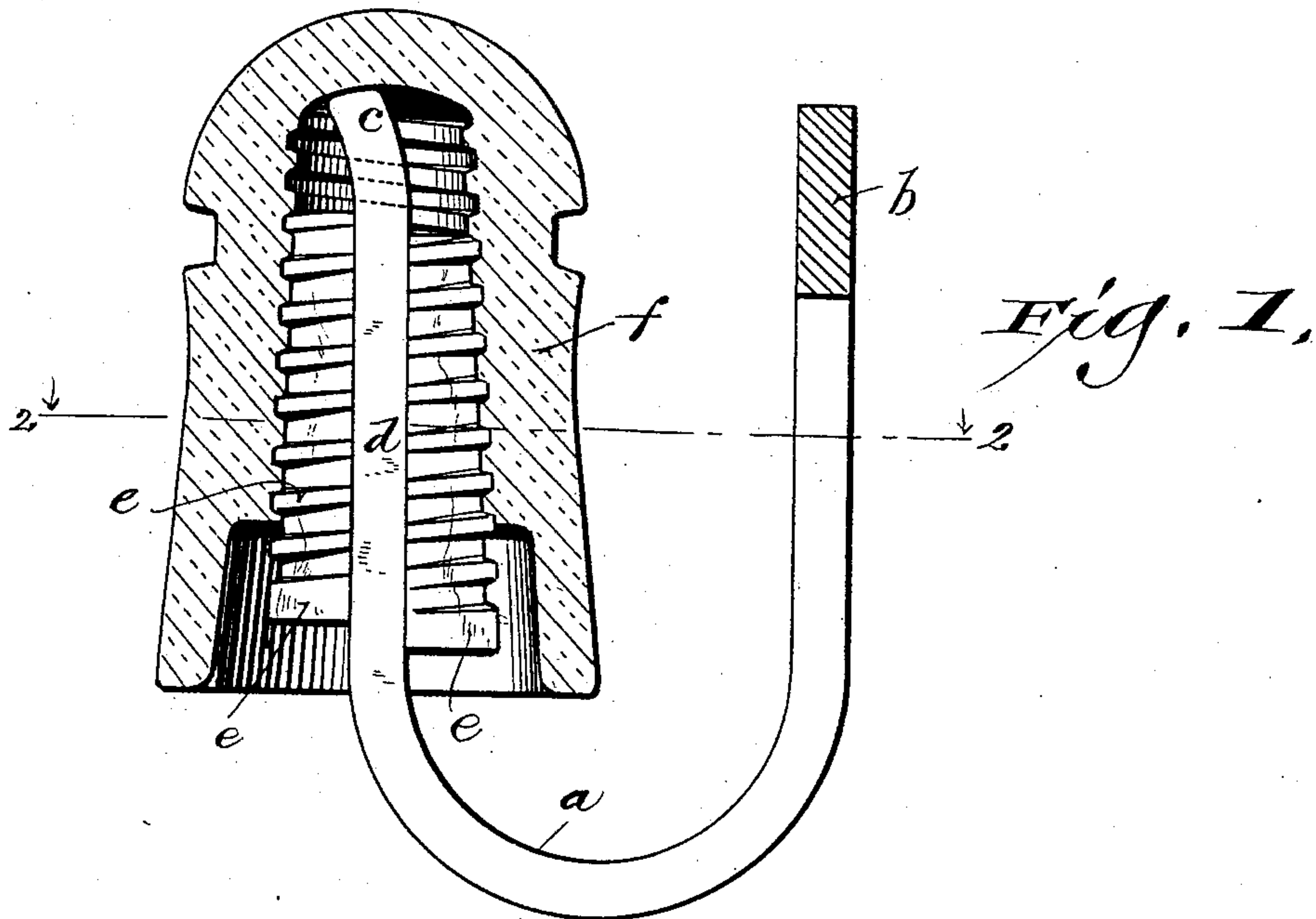


Fig. 1.

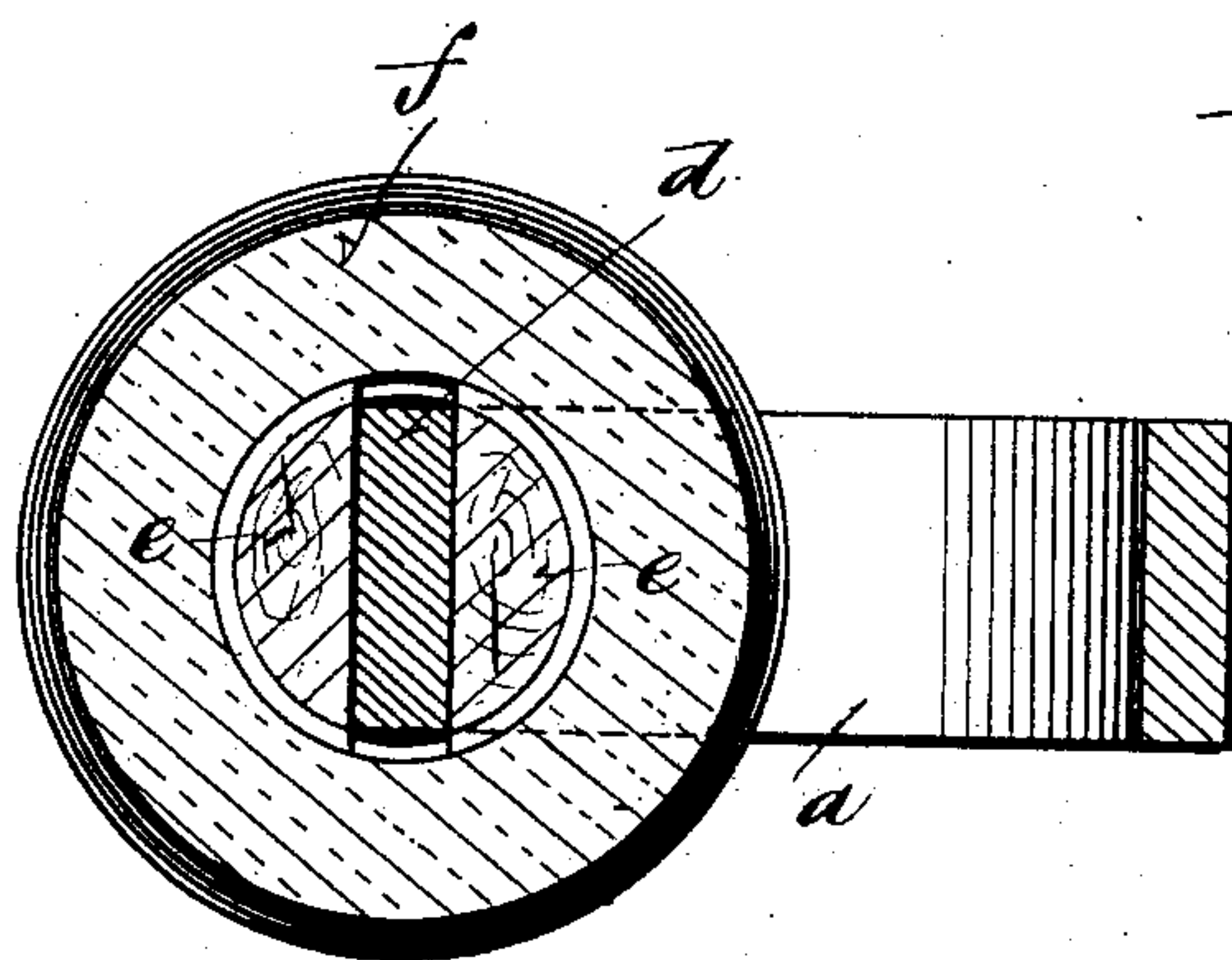


Fig. 2.

Witnesses
Geo W Young
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UNITED STATES PATENT OFFICE.

RALPH S. PEIRCE, OF CHICAGO, ILLINOIS.

INSULATOR.

SPECIFICATION forming part of Letters Patent No. 710,297, dated September 30, 1902.

Application filed February 10, 1902. Serial No. 93,377. (No model.)

To all whom it may concern:

Be it known that I, RALPH S. PEIRCE, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Insulators; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has reference to the means of connecting a glass or other insulator with its support; and it consists in certain peculiarities of construction and combination of parts, as will be fully set forth hereinafter in connection with the accompanying drawings, and subsequently claimed.

In the said drawings, Figure 1 is a view in elevation of the said support in connection with a standard glass insulator, the latter being shown in vertical section. Fig. 2 is a horizontal sectional view of the said parts, taken on the line 2 2 of Fig. 1.

Referring to the drawings, *a* represents a strip of metal, that shown being of generally U form, the end *b* being designed for attachment to some structure and the other end, *c*, being bent outwardly, as shown, the shape of the attaching end being immaterial, but the part *d* below the end *c* being vertical and of uniform thickness. Wedge-blocks *e e* of wood are placed against this part *d*, as shown, these blocks having straight inner surfaces and rounded outer surfaces with grooved screw-threads formed across the same, these blocks being of greater width than the said part *d*, so as to project beyond each edge thereof, and when the blocks are put together, as shown, these blocks present a spiral screw-thread, interrupted only at the lines of the side edges of the part *d*, (one of these blocks *e* being preferably held at a slightly lower plane than the other,) so that they may engage with the interior screw-thread of the glass insulator *f*, whose bore is shown tapering, the said blocks being correspondingly tapered, so that their lower ends are of greater thickness than their upper ends, and the outturned upper end *c* of the support has the function of a wedge relative to the block on the outturned side of the support, and hence after the insulator *f* has been screwed

down on the blocks *e e* until the top of the said end *c* touches the top wall of the insulator-bore any further turn of the insulator in the same direction will serve to draw up said blocks, the bent or outturned upper end *c* thus acting to wedge the upper end of the block on that side more firmly against the side wall of the insulator-bore, the block on the other side of the support being simultaneously drawn upward, and thus all the parts are held very tightly together, while at the same time avoiding any danger of the breaking of the insulator by reason of the expansion of the metal of the support under varying temperatures.

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

1. The combination of an insulator having a screw-threaded bore therein, a metal strip projecting within said bore, and a pair of wooden blocks placed against the opposed sides of said metal strip and formed with exterior screw-threads for engagement with the threads of the insulator-bore.

2. The combination of an insulator having a tapered screw-threaded bore therein, a metal strip projecting within said bore, and a pair of wooden wedge-blocks placed against the opposed sides of said metal strip, and projecting beyond the edges thereof, said wedge-blocks having a screw-threaded exterior surface for engagement with the threads of the insulator-bore.

3. The combination of an insulator having a tapered screw-threaded bore therein, a metal strip projecting within said bore, and having a bent or outturned upper end, and a pair of wooden wedge-blocks placed against the opposed sides of said metal strip, below the said upper end thereof, said wedge-blocks having a screw-threaded exterior surface for engagement with the threads of the insulator-bore.

4. The combination of an insulator having a tapered screw-threaded bore therein, a metal strip projecting within said bore, and having a bent or outturned upper end, and a pair of wooden wedge-blocks placed against the opposed sides of said metal strip, below

the said upper end thereof, one of the said
blocks being held with its upper end at a
lower plane than the upper end of the other,
and said blocks having a screw-threaded
5 exterior surface for engagement with the
threads of the insulator-bore.

In testimony that I claim the foregoing I

have hereunto set my hand, at Chicago, in the
county of Cook and State of Illinois, in the
presence of two witnesses.

RALPH S. PEIRCE.

Witnesses:

FARLEY L. PEIRCE,
C. F. KING, Jr.