

(No Model.)

J. M. PATTERSON.
INSULATOR.

No. 541,332.

Patented June 18, 1895.

Fig. 1

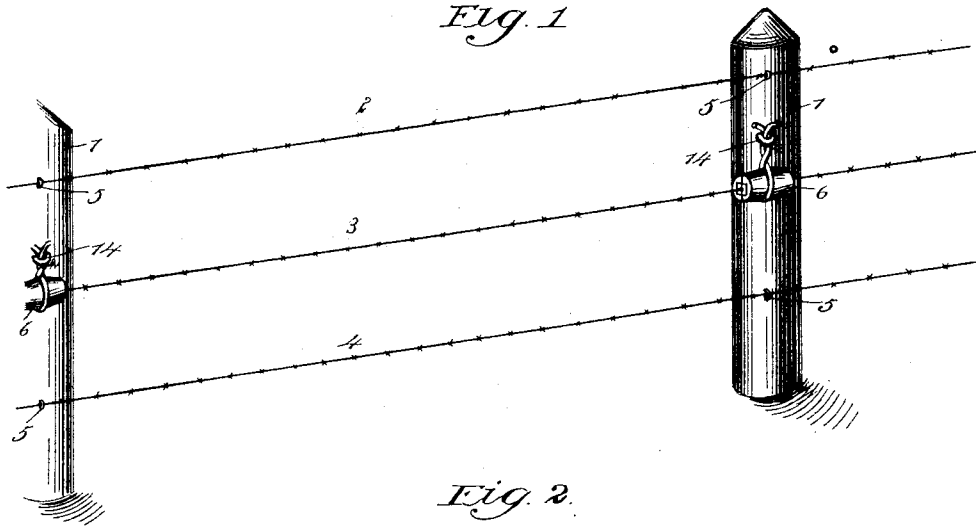


Fig. 2

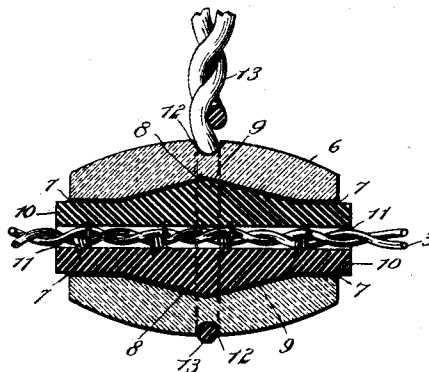
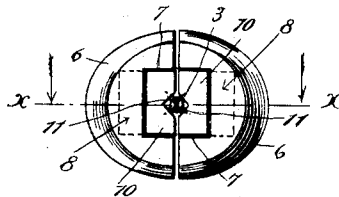


Fig. 3



WITNESSES:

Edward C. Rowland.
J. B. Caplinger

INVENTOR

J. M. Patterson
BY Munn & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES M. PATTERSON, OF SPRINGTOWN, TEXAS.

INSULATOR.

SPECIFICATION forming part of Letters Patent No. 541,332, dated June 18, 1895.

Application filed April 10, 1895. Serial No. 545,205. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. PATTERSON, of Springtown, in the county of Parker and State of Texas, have invented a new and Improved Insulator, of which the following is a full, clear, and exact description.

This invention relates to certain improvements in that class of insulators which are employed for insulating and supporting wires such for example as telephone and telegraph circuit wires; and the object of the invention is to provide a device of this character of a simple, inexpensive and durable construction, which shall present certain features of novelty and advantages for use over other similar devices heretofore employed, all as will be hereinafter fully set forth.

The novel features of the invention will be carefully defined in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view showing the insulator in use for insulating and supporting one of the wires of a barbed-wire fence, said wire forming an electrical conductor. Fig. 2 is a sectional view taken longitudinally through the insulator in the plane indicated by the line X X in Fig. 3, and Fig. 3 is an end view of the insulator.

In Fig. 1, I have shown the insulator in use for supporting and insulating one of the wires of a barbed wire fence. In this view 1 indicates the posts of the fence on which are secured barb wires 2, 3, 4, the upper and lower wires 2 and 4 being secured to the posts in the ordinary manner by means of staples 5 or similar securing devices, and the central wire 3 being employed as an electrical conductor and being supported by the insulating devices constructed in accordance with my invention. Each of these insulating devices comprises two sections 6 composed of glass, porcelain, or other suitable insulating material, having on their inner sides squared longitudinal recesses 7 adapted when the sections 6 are placed together to coincide, as indicated in Fig. 3. At its center each of the recesses 7 is provided with a depression 8 having oppositely inclined or beveled walls, as clearly seen in Fig. 2, and each of these de-

pressions 8 forms a locking aperture or recess adapted to receive a similarly shaped projection 9 integrally formed on the outer side of a block 10 of wood or other suitable material, the end portions of which are squared and shaped to conform to the longitudinal recess 7 in the section 6 wherein said block 10 fits. Two of the blocks 10 are employed in the insulator, being of similar form to engage the similar recesses in the sections 6, and on the inner sides or faces the said blocks 10 are provided with longitudinal notches 11 which coincide when the sections are united, to form a central longitudinal passage adapted to receive the fence wire 3, as clearly indicated in the drawings.

The sections 6 of the insulator are rounded or curved on their outer faces, as clearly indicated in the drawings, and at their central part said sections are provided with corresponding grooves 12, coinciding with each other and forming a seat to receive a tie wire 13, which is arranged within the same and twisted at its ends in a manner to secure said sections firmly together, said wire being secured to the post 1 by means of a staple 14 or other suitable fastening device, as clearly indicated.

The blocks 10 being of wood, the barbs of the wire 3 when said wire is inserted in the notches 11, will sink into the face of the wood, whereby the wire is firmly and securely held in place between the said blocks against longitudinal movement, the blocks themselves being held against withdrawal from the recesses 7 in the respective sections 6, by the engagement of the projections 9 with the locking apertures 8 in the respective sections.

The insulator constructed as above described, is of an exceedingly simple and inexpensive character, and is well adapted for supporting and insulating a wire, being adapted to clamp the wire securely and prevent longitudinal movement of the same after the wire has once been arranged in position.

By the arrangement shown in Fig. 1 the central wire 3 of the barb wire fence may be employed as an electrical conductor, being included in either a telephone, telegraph or other circuit. If desired a signal device of any preferred kind may be included in said circuit, comprising the wire 3, in such a man-

ner that should a break occur in the line of fence, said signal device would be actuated to indicate said break.

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

1. An insulator, comprising two sections of insulating material adapted to fit together and each provided on its inner sides with a longitudinal recess, and blocks notched on their inner faces and adapted to be inserted in the said longitudinal recesses in the sections, with their notches coinciding to form a passage for the wire, substantially as set forth.

2. An insulator, comprising two sections of insulating material provided on their adjacent faces with longitudinal recesses adapted to correspond when the sections are secured together, and having locking apertures, and blocks each provided with a notch in its inner face and with a projection on its outer face, said blocks being adapted to be arranged in the recesses in the respective sections with their notches coinciding to form a central longitudinal passage for the wire, and their projections engaging the locking apertures in the sections, substantially as set forth.

3. An insulator, comprising two sections of insulating material provided on their adjacent faces with longitudinal recesses adapted to correspond when the sections are secured

together, and having locking apertures, and wooden blocks each provided with a notch in its inner face and with a projection on its outer face, said blocks being adapted to be arranged in the recesses in the respective sections with their notches coinciding to form a central longitudinal passage for the wire, and their projections engaging the locking apertures in the sections, substantially as set forth.

4. An insulator, comprising two sections of insulating material provided on their adjacent faces with longitudinal recesses adapted to correspond when the sections are secured together, and having locking apertures, blocks of soft material each provided with a notch in its inner face and with a projection on its outer face, said blocks being adapted to be arranged in the recesses in the respective sections with their notches coinciding to form a central longitudinal passage for the wire and their projections engaging the locking apertures in the sections, and a wire having barbs, said wire extending through the central longitudinal passage in the insulator with its barbs engaging the surfaces of the notches in the said blocks, substantially as set forth.

JAMES M. PATTERSON.

Witnesses:

W. N. HUTCHESON,
J. D. HUTCHESON.