M. S. BRICKA.

TELEPHONE LINE DISCONNECTOR.

APPLICATION FILED AUG. 23, 1912.

1,219,531. Patented Mar. 20, 1917.

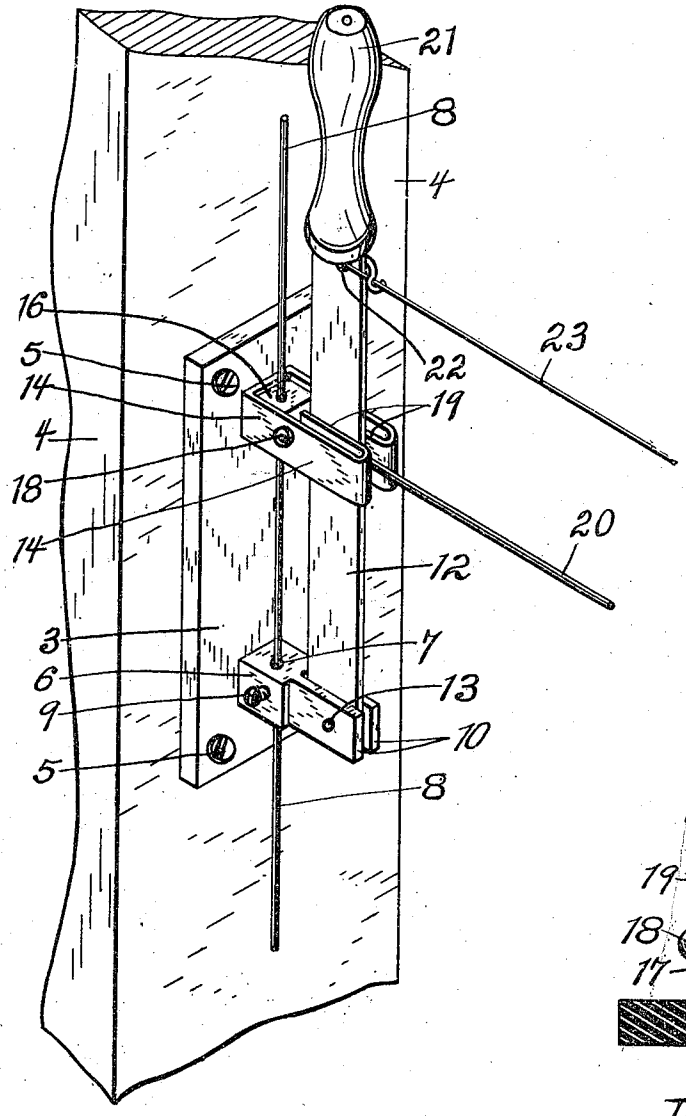


Fig. 1.

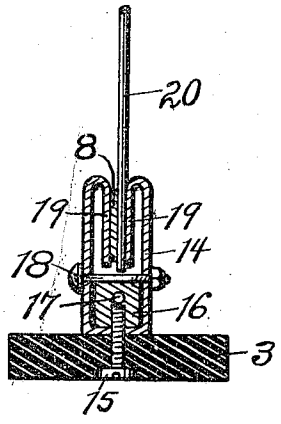


Fig. 2.

WITNESSES:

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TELEPHONE-LINE DISCONNECTOR.

1,219,531. Specification of Letters Patent. Patented Mar. 20, 1917.

Application filed August 23, 1912. Serial No. 716,706.

To all whom it may concern:

Be it known that I, MILTON S. BRICKA, a citizen of the United States, and a resident of Milan, in the county of Ripley and State of Indiana, have invented a new and useful Improvement in Telephone-Line Disconnectors, of which the following is a specification.

My invention relates to line wire disconnectors and more particularly to such devices for cutting out telephones, or other electrical apparatus, during electrical storms, and the object of my improvement is to provide a device of this character which will be simple in its construction and can be efficiently and safely operated by persons having little or no knowledge of electrical apparatus. Other objects will appear hereinafter.

I attain these objects by means of the device illustrated in the accompanying drawings, in which—

Figure 1 is a view, in perspective, of a device embodying my invention, and Fig. 2 is a transverse section of the same taken through the line holding jaws.

The preferred form of construction, as illustrated in the drawings, comprises a base 3, of a non-conducting material such as porcelain, secured to a convenient line pole 4 by means of screws 5. Secured to the base 3 is a terminal 6, which is provided with a perforation 7 in which is secured the line wire 8 by means of a screw 9. The pole piece 6 is also provided with bifurcated portions 10 between which is pivotally mounted the switch arm 12 on a pintle 13.

A resilient clamping member 14, bent substantially as indicated in the drawings, is secured to the base 3 by means of a screw 15 passing through the perforations in such base and such clamping member and threaded in a block 16, as clearly shown in Fig. 2. The block 16 is provided with a perforation 17 through which the line wire 8 passes. Said resilient clamping member 14 is provided with a tension bolt 18 to regulate the pressure exerted by the jaws 19 of such member.

The free end of a wire 20, to which the telephone, or other electrical apparatus is connected is frictionally held between the jaws 19 with the switch arm 12 in a manner to be withdrawn from such jaws with such switch arm.

The switch arm 12 is provided with a handle 21, of an insulating material such as hard rubber, and a perforation 22 in which is secured a cord 23, by which such switch arm is manually operated from a convenient position to the operator.

In operation, the device is secured to a line-pole near the building in which is situated the telephone or other electrical apparatus, and the line wire 8 brought through the perforations 7 and 17 and extended downwardly to within a short distance of the ground. The line wire 8 is insulated on the pole in the usual manner. The line wire 20 is connected with the telephone or other electrical apparatus (not shown) and its free end inserted with the switch arm 12 between the jaws 19 and held therebetween by friction. When there is danger to the electrical apparatus the operator manually pulls on the cord 23 to open the switch, thereby withdrawing the switch arm 12 and the end of the line wire 20 from the jaws 19. The end of the line wire 20 falls to the ground upon being released from the jaws 19. After a storm has passed and there is no longer any danger of injury to the telephone, or other electrical apparatus, the end of wire 20 is manually inserted between the jaws 19 and switch blade 12 also returned to normal position between said jaws. The device is designed especially for rural use and is preferably secured to a line pole at a convenient distance above the ground and at about twenty feet from the building in which the telephone is situated.

While I have illustrated and described the preferred form of construction of my invention, I do not wish to be limited to the precise details set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claim.

What I claim as new and desire to secure by Letters Patent, is—

A telephone line disconnector comprising a base; a substantially U-shaped spring clamp secured to said base and having its end portions bent back on its leg portions

between the latter forming jaws; a bolt passing through said leg portions close to said jaws holding the latter under variable compression; a line wire connected with said clamp; a wire end disposed between said jaws; and a blade pivoted to the base and disposed between one of said jaws and said wire end frictionally locking the latter between the jaws, said wire end being adapted to be removed from said jaws upon the removal of the blade from the jaws.

In witness whereof, I have hereunto signed my name in the presence of two witnesses.

MILTON S. BRICKA.

Witnesses:
IRVIN WILLSON,
ORIN R. PETERS.