C. G. FIELDS.

TELEPHONE DISCONNECTOR.

APPLICATION FILED AUG. 9, 1911.

1,016,131. Patented Jan. 30, 1912.

FIG. 1.

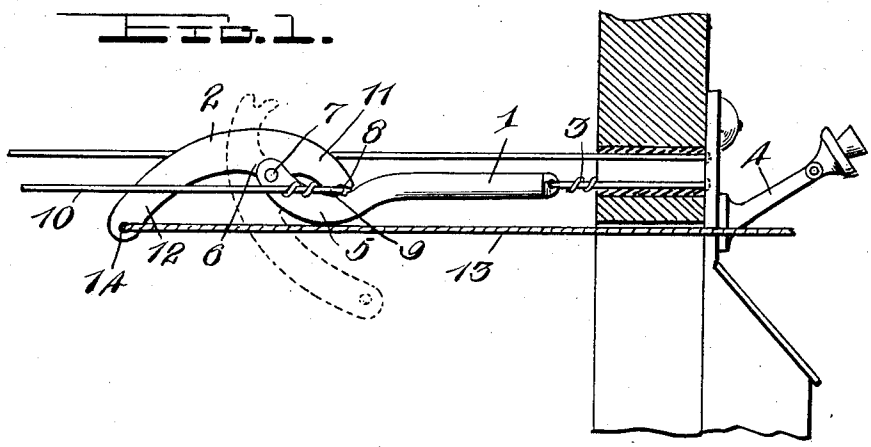
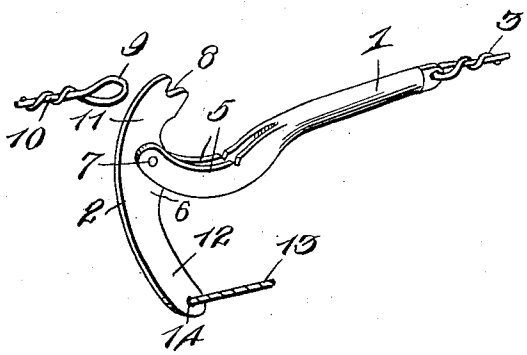


FIG. 2.



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TELEPHONE-DISCONNECTOR.

1,016,131. Specification of Letters Patent. Patented Jan. 30, 1912.

Application filed August 9, 1911. Serial No. 643,121.

To all whom it may concern:

Be it known that I, CYRUS G. FIELDS, a citizen of the United States, residing at Bucklin, in the county of Linn and State of Missouri, have invented certain new and useful Improvements in Telephone-Disconnectors, of which the following is a specification, reference being had to the accompanying drawings.

This invention is an improved device for disconnecting a telephone from the line in the event of a thunder storm without the necessity of going out of the house in which the telephone is located, the object of the invention being to provide a cheap, simple, strong and durable device of this kind by means of which a telephone can be instantly disconnected from the line by merely pulling upon a string, the invention consisting in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings Figure 1 is an elevation of a telephone disconnector embodying my improvements, showing the same in use in connection with a telephone for connecting the same to a line. Fig. 2 is a detail perspective view of the same showing the hook lever in disconnecting position.

My improved telephone disconnector comprises a stem 1 and a hook lever 2. The stem which is made of copper or other suitable conducting material is provided at one end with an opening for the attachment of a conducting wire 3 leading to a telephone or other like instrument indicated in Fig. 1 at 4. The outer end of the same forms a compound curve and is bifurcated to provide a pair of fork arms 5. The hook lever 2 is longitudinally curved and is provided on one side, at a suitable distance from its inner end, with a lateral extension or widened portion 6 which fits between the outer ends of the fork arms 5 and is pivotally secured thereto by means of a suitable pivot pin 7. The inner extremity of the hook lever is provided with a notch 8 for engaging the eye 9 in one end of one of the conducting wires 10. The inner arm 11 of the hook lever is shorter than the outer arm 12 thereof. An operating cord 13, which passes through the wall and into the room with the telephone, has its outer end connected as at 14 to the outer end of the hook lever.

The operation of my improved telephone disconnector is as follows: Normally, the disconnector, the parts of which are made of copper or other suitable conducting material, forms a portion of one of the conductors leading to the telephone and is, in effect, a portion of the line wire. When the conductor 10 has its eye 9 engaged with the notch 8 of the hook lever and the latter is turned to the position shown in full lines in Fig. 1 so that the end of the conductor 10 bears on the fork arms 5 of the stem 1, the line 10 is eccentric to the pivot axis 7 of the hook lever and below the plane thereof and hence the tension of the line keeps the hook lever in such normal closed position and the telephone is connected. In order to disconnect the telephone it is only necessary for a person within the house to drawn the cord 13. This draws inwardly and downwardly on the outer end of the hook lever, thereby causing the hook lever to turn on its pivot as indicated in dotted lines in Fig. 1, and as the said hook lever turns it carries the line wire 10 upwardly and moves the same above the plane of the pivot 7 of the hook lever, whereupon the tension of the line causes its eye 9 to slip from the notch 8 of the hook lever so that the line becomes entirely disconnected from the hook lever and, therefore, also from the telephone.

It will be noted that in order to disconnect the telephone it is only necessary to pull the cord. This can be done in an instant by anyone in the house, even by a child and in the event of a thunder storm causes the telephone to be disconnected from the line and hence all danger of the telephone being burned out by lightning is avoided. To reconnect the telephone to the line it is only necessary to reëngage the eye 9 to the line 10 to the notch end 8 of the hook lever and turn the latter to the position shown in full lines in Fig. 1.

Having thus described my invention I claim:—

1. The herein described telephone disconnector comprising a member for connection to the phone and having an arm extending from one side thereof, and a hook lever pivotally connected at a point intermediate its ends to the said arm, said hook lever being provided at its inner end with a line wire engaging notch and having an operating cord connected to its outer end, the notched end of the hook lever being held

by the tension of the line wire when the latter is engaged therewith in position to keep the line wire eye in engagment with the member and eccentrically to the pivot axis of the hook lever.

2. The herein described telephone disconnector comprising a stem to form a part of a telephone circuit and provided at its outer end with a pair of longitudinally curved fork arms and a longitudinally curved hook lever pivotally mounted at a point intermediate its ends between the outer ends of the fork arms of the stem, said hook lever being provided on its inner end with means to engage a line wire.

3. The herein described telephone disconnector comprising a stem to form a part of a telephone circuit and provided at its outer end with a pair of longitudinally curved fork arms and a longitudinally curved hook lever pivotally mounted at a point intermediate its ends between the outer ends of the fork arms of the stem, said hook lever being provided on its inner end with means to engage a line wire, and an operating cord attached to the outer end of the hook lever.

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

CYRUS G. FIELDS.

Witnesses:
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