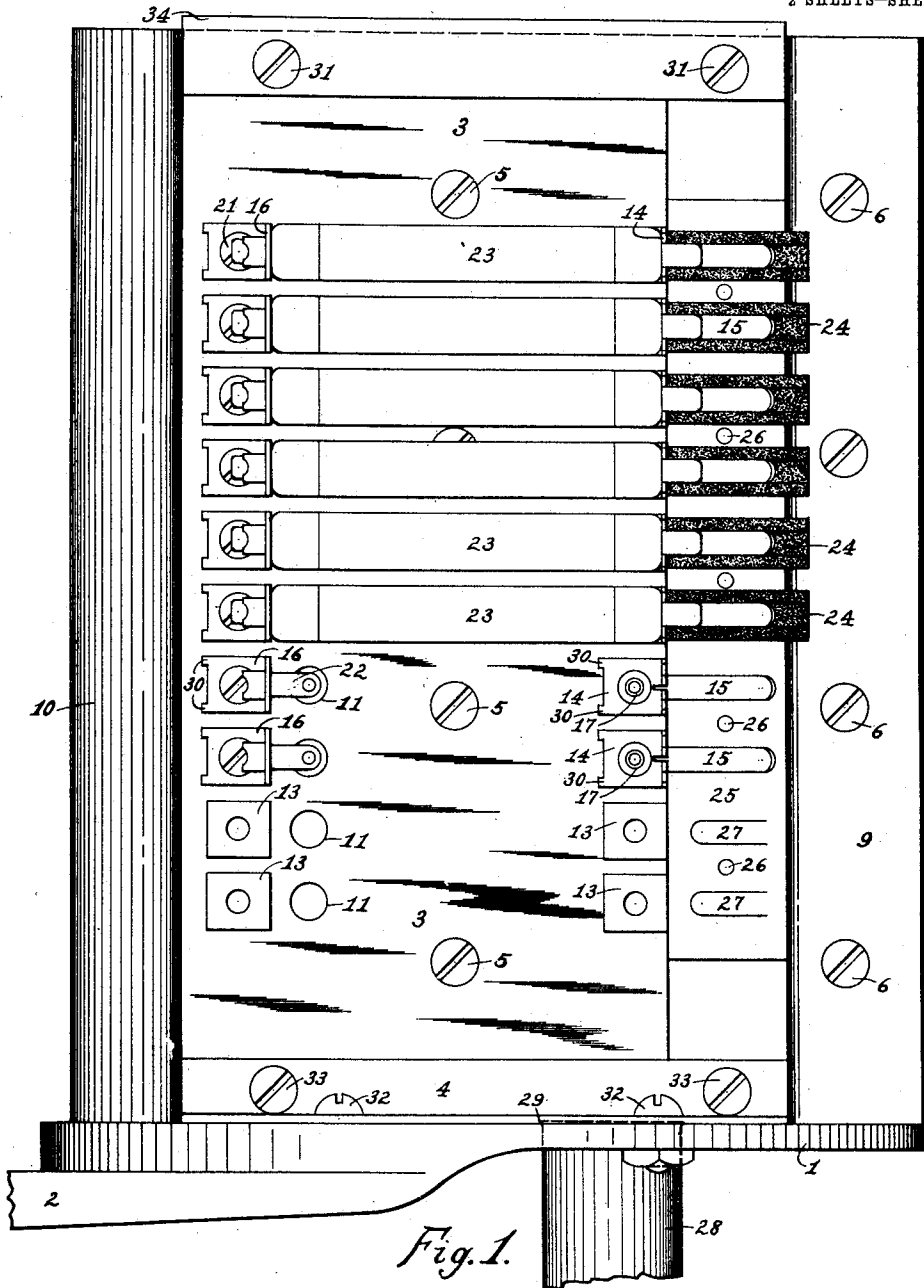


F. B. COOK.
CABLE TERMINAL.
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997,043.

Patented July 4, 1911.

2 SHEETS—SHEET 1.



WITNESSES:

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2 SHEETS—SHEET 2.

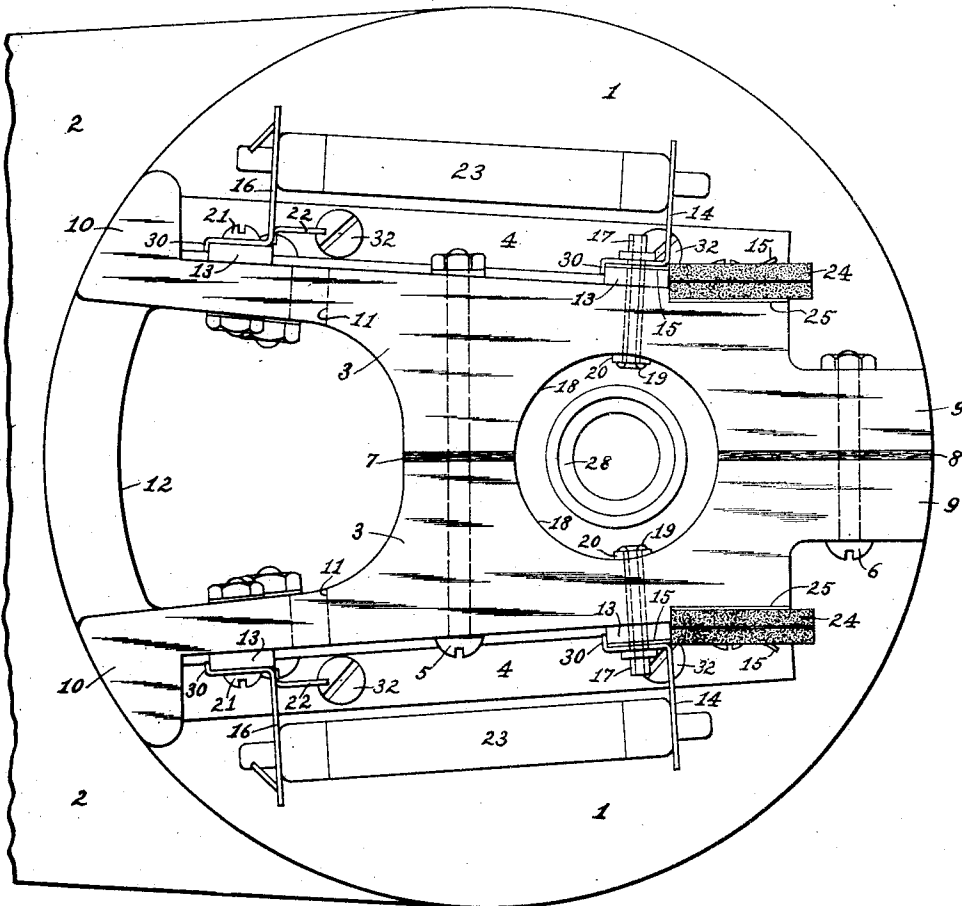


Fig. 2.

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UNITED STATES PATENT OFFICE.

FRANK B. COOK, OF CHICAGO, ILLINOIS.

CABLE-TERMINAL.

997,043.

Specification of Letters Patent.

Patented July 4, 1911.

Application filed July 15, 1909. Serial No. 507,773.

To all whom it may concern:

Be it known that I, FRANK B. COOK, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Cable-Terminal, of which the following is a specification, reference being had to the accompanying drawings, illustrating same.

10 My invention relates to cable terminals such as are used at the ends of cables for distributing the conductors thereof and protecting them against injurious electricity of various forms.

15 The principal objects of my invention are, to provide an improved cable terminal as will be hereinafter more fully described; and to provide an improved construction in porcelain cable terminals of the character specified. Other objects will be apparent from the following specification.

Heretofore it has been customary to make protected cable terminals of the closed-head type of either cast metal or sheet metal, and provide on such cable terminals fanning strips or distributing strips of either wood or of metal. Such cable terminals are generally expensive to make and the metal employed in their construction is objectionable under certain conditions.

20 In the improved cable terminal of this invention I have provided a protected cable terminal of the closed-head type made of two porcelain halves suitably placed together, these halves having extended edges thereon adapted for fanning strips or distributing strips. Such a cable terminal, it will be readily seen from the following description, is very simple in its construction, very substantial and practical, and eliminates the large metal parts used in older forms of cable terminals.

25 In the accompanying drawings illustrating the preferred form of my invention, Figure 1 is a side elevation of the improved cable terminal, with some of the lower portions broken away; and Fig. 2 is a plan view of Fig. 1, with some of the portions removed.

30 Like characters refer to like parts in the several figures.

By reference to the drawings, 1 is a circular base plate having a rearwardly-extending portion 2 adapted to be mounted to a suitable support. The head of the cable terminal, comprising two porcelain halves 3 3, is mounted on the base plate 1 by means

of angle irons 4 4 and bolts 32 32 and 33 33, the halves 3 3 being suitably bolted together by bolts 5 5 and 6 6 and having suitable gaskets 7 and 8, preferably of felt, therebetween as shown. Between the head 3—3 and the base plate 1 there may be placed a suitable gasket to form a tight joint between these parts. At the top ends of the halves 3 3 may be placed a top plate 34, suitably held in place by bolts 31 31, to cover the top end of the cable terminal. This plate 34, however, may be dispensed with if desired.

Each of the porcelain halves 3 3 is provided with a forwardly-extending edge 9 70 and a rearwardly-extending edge 10 10 formed integral therewith, the edges 9 9 and 10 10 serving to support a cylindrical cover which may be placed down over the cable terminal and the circular base plate 1 in a manner well understood. Each of the edge extensions 10 10 is provided with a series of holes 11 11 therethrough serving to accommodate aerial conductors leading up through an opening 12 in the base plate 1 and out through the holes 11 11 to suitable terminal members which will be hereinafter described.

Each of the porcelain halves 3 3 has two vertical rows of projections 13 13 thereon formed integral therewith, the front row of projections 13 13 carrying a series of fuse clamping springs 14 14 and a series of lightning arrester springs 15 15, and the rear row of projections 13 13 carrying a series of fuse clamping springs 16 16. The springs 14 14 and 15 15 are held in place by hollow binding posts 17 17 which extend through the walls of the portions 3 3 into the opening 18 of the terminal head formed by the two halves 3 3 being placed together; these posts 17 17 being riveted over as at 19 19 against suitable metal washers 20 20, preferably of a soft metal such as lead, to securely hold the parts together. The springs 16 16 are suitably held in place by bolts 21 21 which extend through the edge extensions 10 10 as shown. The springs 16 16 are provided with terminal portions 22 22 for accommodating the aerial conductors which lead out through the holes 11 11 as hereinbefore described.

On each side of the cable terminal is placed a series of inclosed fuses 23 23, suitably held in place by spring members 14 14 and 16 16 in a manner well understood, and also a series of lightning arresters 24 24 placed between the corresponding springs

15 15 and ground strips 25 25 which are attached to the porcelain halves 3 3 by suitable pins or rivets 26 26. Each of the ground strips 25 25 is provided with a series of tongue portions 27 27 adapted to fit in grooves of the corresponding lightning arresters and thereby hold same against lateral movement, in a manner well understood. It will readily be understood that the fuses 23 23 and lightning arresters 24 24 may be removed, or replaced by others, as desired.

The base plate 1 carries a nozzle 28 the upper end of which is preferably formed outwardly against the plate 1 as shown at 29 to suitably secure the nozzle 28 in place. The nozzle 28 opens into the opening 18 of the terminal head and is for accommodating cable conductors extending up through the nozzle 28 and the base plate 1 into the opening 18 of the terminal head, in a manner well understood. The cable conductors from the opening 18 are distributed out through the hollow binding posts 17 17 in a manner well understood, and are secured to the outer ends of these posts 17 17 by solder which tightly seals the openings in the posts 17 17.

The spring members 14 14 and 16 16 have inwardly projecting lugs 30 30 fitting over the projections 13 13 as shown, to prevent these spring members from turning on their mountings.

When it is desired to separate the halves 3 3 of the cable terminal for distributing the cable conductors out through the hollow binding posts 17 17, such separation may be accomplished by loosening or removing the bolts 5 5, 6 6, 31 31 and 32 32, whereupon the halves 3 3 may be readily separated as desired. When the cable conductors have been distributed as desired, the parts may be again bolted together as described to condition the terminal for use. If desired, a suitable insulating compound or material may be poured into the opening 18 of the terminal head to suitably seal the cable conductors in the terminal head and prevent

any moisture from penetrating into the end of the cable or into the coverings of the cable conductors.

It will be readily seen that the projections 13 13 greatly increase the insulation between the adjacent spring members of the cable terminal, because they provide an increased extent of surface between such adjacent spring members.

I do not wish to limit this invention to all of the particular details herein set forth, as various modifications of same may be made without departing from the scope of the appended claims.

What I claim as my invention is:

1. A cable terminal of the character set forth having a head portion composed of two halves separately secured together to form the head and each having front and rear vertical edges for forming guides for a cover, suitable protective apparatus mounted on the said halves, the two rear edges of the said halves being separated from each other to form two separated supports for the cover in the rear of the head, and the two front edges of the said halves being secured together to form but a single support for the cover in front of the head.

2. A cable terminal of the character set forth having a head portion composed of two halves separably secured together to form the head and each having front and rear vertical edges for forming guides for a cover, the two rear edges of the said halves being separated from each other to form two separated supports for the cover in the rear of the head, and the two front edges of the said halves being secured together to form but a single support for the cover in front of the head.

As inventor of the foregoing I hereunto subscribe my name, this 10th day of July, 1909.

FRANK B. COOK.

Witnesses:

FREDERICK R. PARKER,
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