June 17, 1930. C. D. HEALY 1,765,156

BELL FOR CONDUITS

Filed Aug. 9, 1926

Fig. 1.

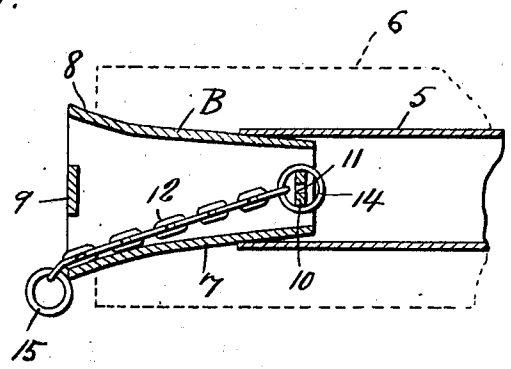


Fig. 2.

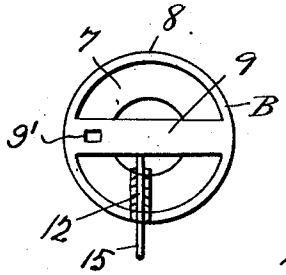


Fig. 3.

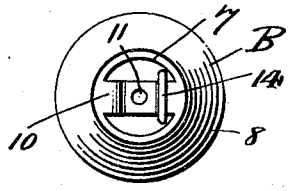
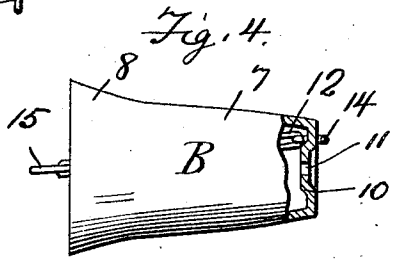


Fig. 4.



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UNITED STATES PATENT OFFICE

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BELL FOR CONDUITS

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The present invention relates to what I call a bell for a conduit, and has for its principal object to provide a device which may be inserted in the end of a conduit while the conduit is being encased in concrete for providing a larger entrance for the cable so as to prevent the lead from being chipped or injured in any way.

Another very important object of the invention lies in the provision of an attachment of this nature which is exceedingly simple in its construction, inexpensive to manufacture, strong and durable, efficient and reliable in use, and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawings:—

Figure 1 is a longitudinal section through the attachment and a portion of a conduit,

Fig. 2 is an end elevation thereof,

Fig. 3 is another end elevation thereof, and

Fig. 4 is a sectional elevation thereof.

Referring to the drawing in detail, it will be seen that the numeral 5 denotes the usual tubular conduit encased in concrete indicated at 6. My improved attachment is designated generally by the letter B and includes a tubular frusto-conical body 7 having the larger end thereof flared outwardly as is indicated at 8.

A cross bar 9 extends diametrically across the mouth of the flared end 8 and flush with the outer edge thereof. The cross bar 9 is provided with an opening 9′ for the purpose of fixing the body to the concrete casting form by clinching nails that project from the form, in this opening. A cross bar 10 extends across the smaller end of the frusto-conical tubular body 7 and has its intermediate portion offset inwardly and apertured as at 11. A chain or other flexible element 12 has a ring at one end as at 14 circumscribing the bar 10 and a ring 15 at the other end thereof, the chain 12 being sufficiently long to allow the chain 15 to hang out of the bell attachment as is clearly indicated in Fig. 1.

The idea of this bell is to make a larger entrance for the cable in the manhole. The conduit is usually about four inches and the bell about six inches, thereby giving the conduit a larger entrance and thus preventing the cable sheath from being chipped or injured in any way. When the cable sheath is chipped, this indicates the loss of a section of cable which is generally about three hundred feet long. Sometimes when the cable is being drawn through the conduit, the pulling wire breaks when it is near the end of the conduit and this makes it impossible to attach another wire with which to continue to pull it through. This bell attachment makes it possible to fasten another wire to the pulling wire so as to continue to pull said cable through the conduit. The sections of cables are sometimes three hundred feet and if the wire broke, it would take considerable time to back the cable out, put in a new wire, and then pull the cable in again. The bar across the mouth is for the purpose of holding the bell in place against the wooden form of the manhole while the concrete is being poured. This can be held in place by a nail or bolt while the concrete is being poured and therefore makes it easier to remove from the concrete. The chain provides a means for pulling the bell loose from the concrete after the conduit has set therein, whereby the pull is applied at the rear end of the bell to insure an even pull.

Sometimes a thrust on the chain 12 will not loosen the member B from the concrete because it requires a radial movement. In this latter case, a pointed bar is inserted from the front of the member, bearing against an outer end of the cross rod 9, with the point of the bar in opening 11. When upward pressure is exerted on the bar, the member B will have a tendency to rotate and free itself from the concrete.

It is thought that the construction, utility, and advantages of this invention will now be apparent to those skilled in this art without a more detailed description thereof.

The present embodiment of the invention has been disclosed in detail merely by way of example, since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It is apparent that the changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed, or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:—

1. A core for forming a depression in concrete about the mouth of a conduit that is to be encased in concrete comprising a hollow frusto-conical body having the smaller end adapted to be inserted in the end of a conduit while the concrete is being poured about said conduit, a bar extending across the opening at the larger end of said body having means thereon adapted for attachment to the form in which the concrete is poured, a bar across the smaller end of the body and means secured to the last mentioned bar and extending outwardly through the opening in the body for pulling the body out of the concrete after the latter has set.

2. A core for forming a depression in concrete about the mouth of a conduit that is to be encased in concrete comprising a hollow frusto-conical body having the smaller end adaptable to be inserted in the end of a conduit while the concrete is being poured about said conduit, a bar extending across the opening at the larger end of the body and flush with the edges at the end thereof having an opening therein adapted for clinching nails that project from the form in which the concrete is poured, a bar across the opening at the smaller end of the body, and a chain movably connected at one end to the last mentioned bar and extending outwardly through the opening in the body for pulling said body out of the concrete after the latter has set.

In testimony whereof I affix my signature.

CORNELIUS DENNIS HEALY.