March 19, 1935. P. J. BOTT 1,994,938

SAFETY ATTACHMENT FOR FUSE PULLERS

Filed Oct. 5, 1933 2 Sheets-Sheet 1

Fig. 1.

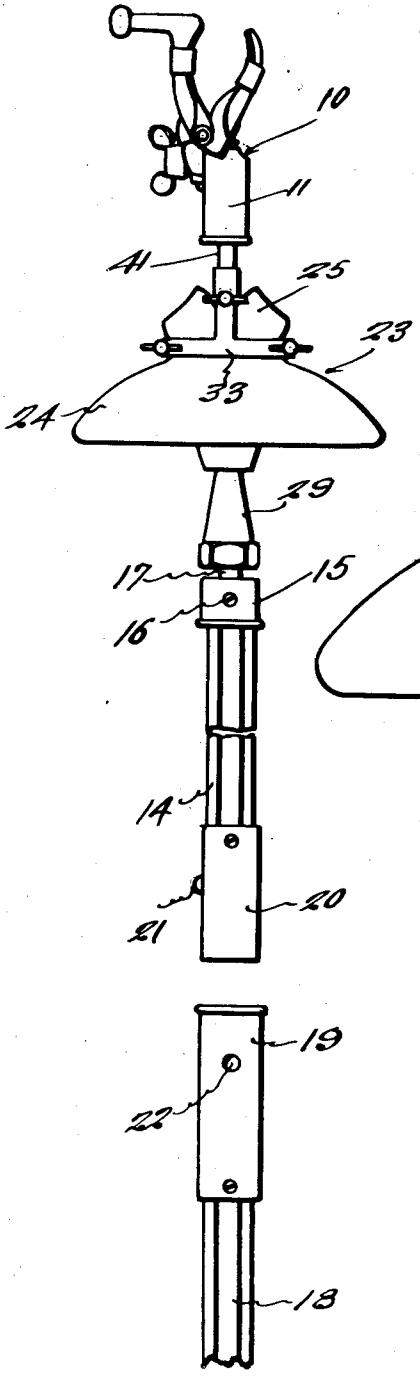
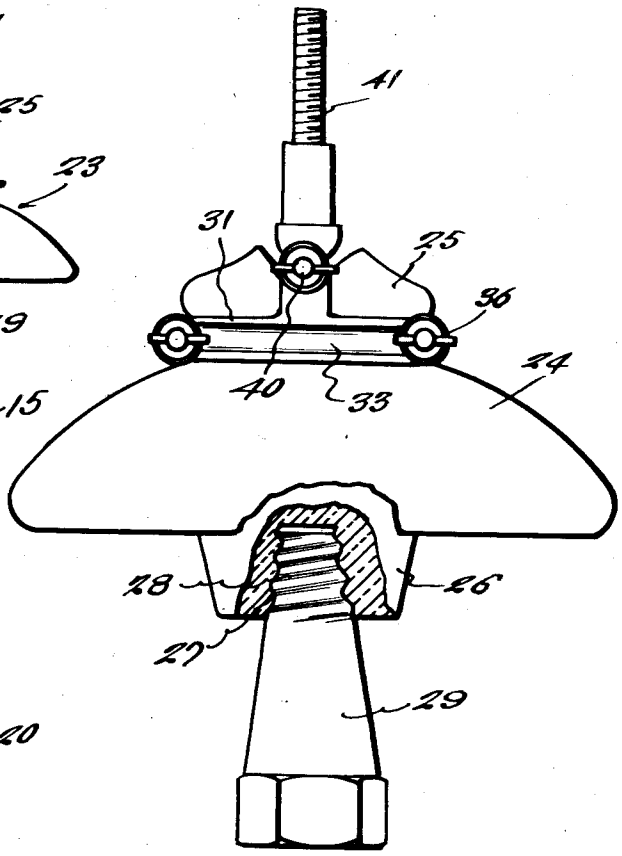


Fig. 2.



Inventor

Perry J. Bott

By Clarence O'Brien

Attorney

March 19, 1935. P. J. BOTT 1,994,938

SAFETY ATTACHMENT FOR FUSE PULLERS

Filed Oct. 5, 1933 2 Sheets-Sheet 2

Fig. 3.

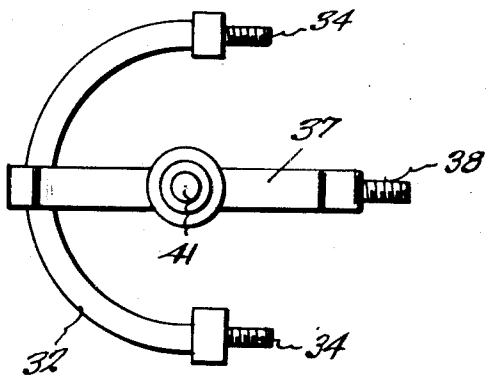


Fig. 4.

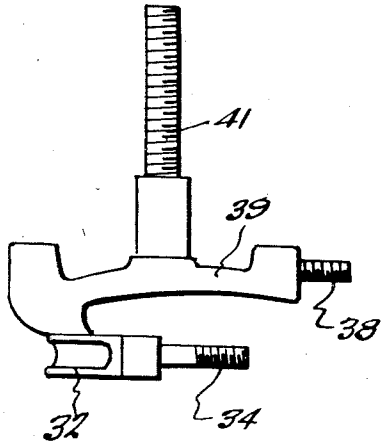


Fig. 5.

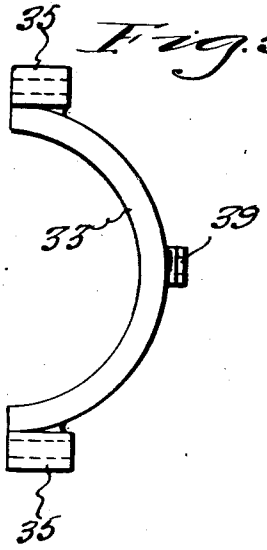


Fig. 7.

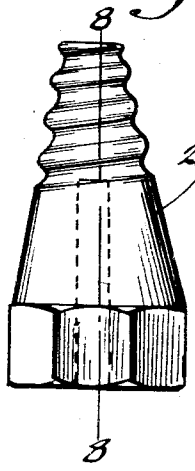


Fig. 8.

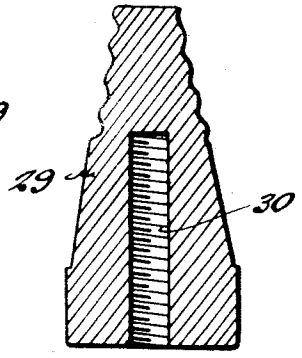
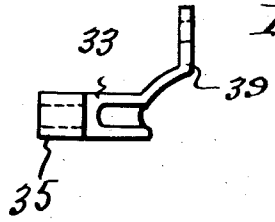


Fig. 6.



Inventor

Perry J. Bott

By Clarence A. O'Brien

Attorney

Patented Mar. 19, 1935

1,994,938

UNITED STATES PATENT OFFICE

1,994,938

SAFETY ATTACHMENT FOR FUSE PULLERS

Perry J. Bott, Little Rock, Ark.

Application October 5, 1933, Serial No. 692,346

3 Claims. (Cl. 173—313)

This invention relates broadly to fuse pullers and more particularly to fuse pullers adapted for use in connection with overhead line insulation and the object of the invention is to provide an attachment which may be readily mounted on the puller to guard the operator against shock when working in wet and damp weather.

Briefly the invention consists in the provision of an insulator which may be readily associated with the fuse puller and is simple and economical in construction.

The invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawings wherein:

Figure 1 is a side elevational view of a fuse puller having the attachment associated therewith.

Figure 2 is an enlarged elevational view of the attachment, certain parts being broken away and shown in section.

Figure 3 is a top plan view of one section of the clamp forming part of the invention.

Figure 4 is a side elevational view of said one section.

Figure 5 is a top plan view of a complemental section of the clamp.

Figure 6 is a side elevational view thereof.

Figure 7 is an elevational view of a cone forming part of the invention, and

Figure 8 is a sectional view taken substantially on the line 8—8 of Figure 7.

Upon referring to the drawings it will be seen that the attachment is shown applied to a well known type of fuse puller, the same embodying the subject matter of Patent No. 1,876,892 and including among other parts a fuse puller or clamp indicated generally by the reference numeral 10 and provided with an internally threaded socketed body 11; and handle 14 which has its upper end engaged in a socket 15 and secured therein as at 16. The socket 15 is provided on one end with a stud or post 17 which, when the attachment forming the subject matter of the present invention is not used, is adapted to be screw threaded into the socket 11 of the fuse puller or clamp 10. For the handle 14 there may be also provided suitable extensions 18 that are provided with sockets 19 for receiving the ferrule equipped end 20 of the handle 14. The ferrule 20 and the socket 19 are provided with suitable inter-engaging means 21, 22 for locking the end 20 within the socket 19.

The insulation attachment forming the subject matter of the present invention is indicated generally by the reference numeral 23 and includes a body 24 of porcelain or other suitable material which is preferably of the shape shown being provided at the top thereof with a head 25 and at the bottom thereof with a depending boss 26 that has an axial threaded tapered socket 27 formed therein and into which is screw threaded the threaded end 28 of a coupling cone 29. At its largest end the cone 29 is provided as shown in Figure 8 with an axial threaded socket 30, which when the attachment is to be used, is adapted to have threaded therein the aforementioned stem or post 17.

The head 25 of the porcelain or body 24 is provided with a circumferential groove 31 for accommodating the complemental sections 32, 33 of a two-part clamp forming part of the invention. As will be noted the complemental sections 32, 33 of the clamp are substantially semi-circular and one of the sections, in the present instance the section 32 has the ends thereof provided with threaded studs 34 adapted to be engaged with bosses 35 provided on the ends of the clamp section 33. Wing nuts or the like 36 are engaged with the pins 34 for securing the sections 32, 33 clamped about the head 25 and within the groove 31.

The clamp also includes a cross piece 37 that is integral at one end with the intermediate portion of a clamp section 32, and at its free end is provided with a threaded pin 38 adapted to pass through an aperture provided in the upper end of angular lug 39 provided on an intermediate portion of the clamp section 33. A wing nut or the like 40 is screw threadedly engaged with the pin 38. The cross or bridge bar 37 is accommodated in a groove suitably provided at the top of the head 35 and has formed integrally therewith and intermediate its ends a vertical post or stem 41 that is threaded and is adapted to be screwed into the socket portion 11 of the clamp 10 so that the parts will then be held in assembled relation shown in Figure 1.

From the above it will be apparent that with the attachment 23 thus interposed between the clamp 10 and the handle 14 the fuse puller can be used during inclement weather with very little or no danger to the operator. During dry weather and when it is not desired to use the attachment 23 the same may be readily removed by unscrewing the stem 17 from the socket of the cone 29, and the stud or stem 41 from the socket 11. With the attachment thus removed the stud 17 may be threaded into the socket 11 and the puller used in the usual manner.

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

1. A device of the character described comprising a two-part clamp each part of which includes a substantially semi-circular part adapted to embrace an insulator, one of said parts at the ends thereof being provided with threaded studs, and the other of said parts at its ends being provided with apertured bosses axially receiving said studs to secure the parts about the insulator, the first named part of the clamp being also provided with a cross bar having a free end equipped with a threaded stud, and the second named part of the clamp having an upstanding apertured lug to receive the threaded stud of the cross bar, a nut engaged with said stud for securing the same engaged with the lug, and said cross bar intermediate its ends being also provided with an upstanding threaded post adapted to be screwed into the socket portion of a fuse clamp.

2. A clamp for connecting an insulator and fuse clamp together and comprising a pair of complemental sections adapted to embrace an insulator, inter-engaging means on the sections at the meeting ends thereof for connecting said sections together to secure the same about the insulator, one of said sections having a cross bar integral at one end with said one section and having a free end provided with a threaded stud, and the other of said sections having an angular lug apertured to receive said stud, a nut engaged with the stud to secure the same engaged with the lug, and said cross bar intermediate its ends being provided with a threaded post for threaded engagement with the socket of a fuse clamp.

3. An attachment for connecting a fuse puller clamp with its handle and comprising an insulator including a body, a head, a reduced neck connecting the head and body and a threaded socket in the end of the body opposite to said head, a clamp embracing the neck and including a cross bar extending across the head of the insulator and provided intermediate its ends with a threaded post for screw threaded engagement with the socket of the fuse clamp, and a coupling cone having threads at one end for screw threading said end into the socket of the insulator, and provided in an opposite end with a threaded socket for screw threaded reception of one end of said handle.

PERRY J. BOTT.