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UNDERGROUND RESIDENTIAL DISTRIBUTION CONNECT
POLE AND HIGH VOLTAGE FUSE PULLER
Filed July 5, 1968

Fig. 1

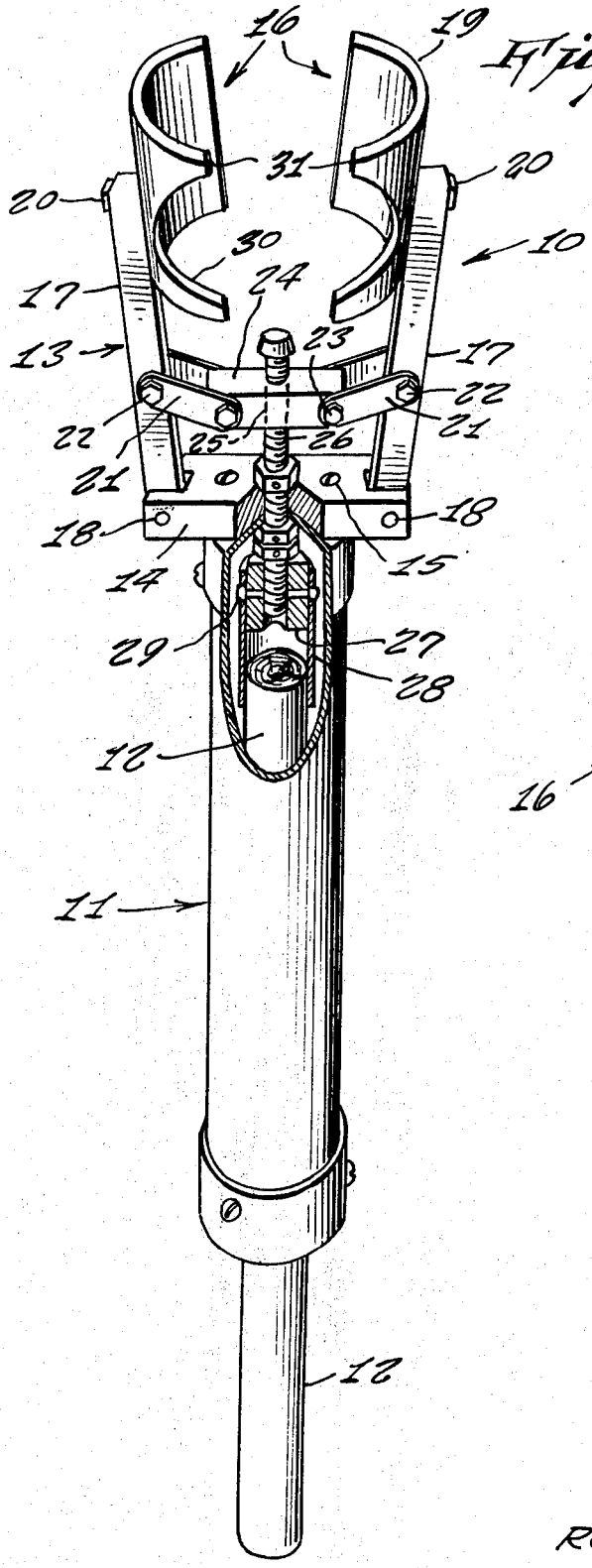
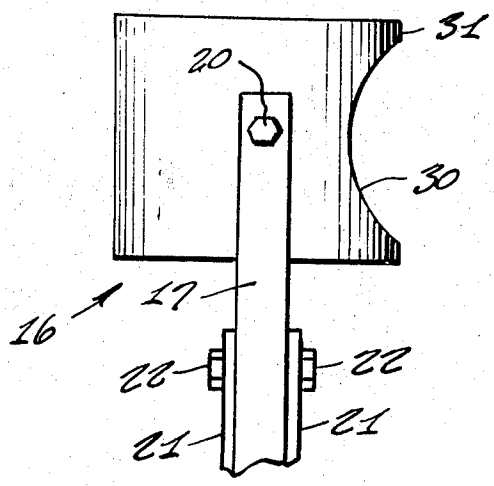


Fig. 2



INVENTOR
ROBERT J. LE VESQUE

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UNDERGROUND RESIDENTIAL DISTRIBUTION CONNECT POLE AND HIGH VOLTAGE FUSE PULLER

Robert J. Le Vesque, Sr., 11 E. Wyoming St., St. Paul, Minn. 55107

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ABSTRACT OF THE DISCLOSURE

A device for safely switching the high voltage terminator on the ends of electrical cables, the device including a long pole having a working head at one end comprised of a pair of movable jaws which can be opened or closed by rotating a handle on the opposite end of the post or pole.

This invention relates generally to fuse pullers.

It is generally well known to those skilled in the art that underground residential distribution systems consist of a group of transformers located within vaults in the ground, the transformers being fed by high voltage primary cables with special terminators on the ends of the cables for connection to the transformers. These terminators are made by RTE and ESNA companies and can be made to be switched on and off.

A principal object of the present invention is to provide a device which may be used for switching on and off the high voltage underground distribution systems.

Another object of the present invention is to provide an underground residential distribution disconnect pole and high voltage fuse puller which includes a long pole of variable length to suit and wherein there is a working head at one end of the pole which is adaptable to communicate with the terminator, and the opposite end of the pole having a rotatable handle for operating the working head.

Another object of the present invention is to provide an underground residential distribution disconnect pole and high voltage fuse puller wherein the working head on one end of the pole comprises a pair of jaws for clamping therebetween the terminator at the end of the electric cable.

Other objects of the present invention are to provide an underground residential distribution disconnect pole and high voltage fuse puller which is simple in design, inexpensive to manufacture, rugged in construction, easy to use and efficient in operation.

These and other objects will be readily evident upon a study of the following specification and the accompanying drawing wherein:

FIG. 1 is a perspective view of the present invention shown partly in cross section so to illustrate the interior structure; and

FIG. 2 is a fragmentary side elevation view thereof.

Referring now to the drawing in detail, the reference numeral **10** represents an underground residential distribution disconnect pole and high voltage fuse puller according to the present invention wherein there is a long, tubular pole **11** which may vary in length possible from four to ten feet, the pole having a central longitudinal extending handle **12** therethrough, the handle extending out of one end of the pole where it may be covered with a rubber hand grip.

A working head **13** at the opposite end of the pole comprises a bracket **14** secured by screws **15** to the end of the pole, the bracket supporting a pair of jaws **16**. Each jaw includes one end of a bar **17** being secured

pivotally free on a pin **18** mounted in the bracket **14**, the opposite end of each bar **17** having a semi-circular or semi-cylindrical jaw member **19** secured by a single bolt **20**.

Intermediate the opposite ends of each bar **17**, one end of a pair of links **21** are secured pivotally free by means of bolt **22**, the opposite end of the links **21** being secured pivotally free by means of bolt **23** to a block **24** having a threaded opening **25** threadingly engaged upon a threaded shank **26** rigidly secured to one end of the handle **12**. The stud **26** is fitted within a bushing **27** fitted into a sleeve **28** rigidly affixed to the end of the handle **12**, the stud **26** receiving a rivet **29** therethrough which extends through the bushing and sleeve.

In operative use, the workman may thus be positioned some distance away from the hot cables and by turning the extending handle which protrudes from one end of the pole, he may manipulate the jaws so to close upon the special terminator on the end of the cable connected to the transformer. To use the device as a high voltage fuse puller, the workman can rotate the jaws 90° and install or remove large fuses safely. It will be noted that each jaw member **19** also includes a semi-circular notch **30** along one side edge **31** thereof.

While various changes may be made in the detailed construction, it is understood that such changes will be within the spirit and scope of the present invention as is defined by the appended claims.

I claim:

1. A tool for electrically insulatably gripping the high voltage electrical cable terminator of the type having a body portion and a leg portion angularly projecting from said body portion, said tool comprising a longitudinally extending pole, a working head at one end of said pole, said working head comprising a pair of opposing jaw members, said jaw members defining a frontal opening for gripping the body portion of said terminator and a lateral opening for gripping the leg portion of said terminator, and means for moving said jaw members toward and away from each other whereby said terminator can be gripped and released, said jaw members being arcuate shaped, and said frontal and said lateral openings being generally circularly shaped, said lateral opening being defined by semi-circular notches in lateral opposing edges of said jaw members.

2. The tool of claim **1** wherein said pole is tubular, and said means comprises: a handle member longitudinally extending through said pole; retractable means connected to the end of said handle adjacent said working head; said retractable means being operable from the other end of said handle; and linking means linking said jaws to said retractable means whereby said jaws can be moved toward and away from each other upon advancement and retraction of said retractable means.

3. The tool of claim **2** wherein said retractable means is threaded.

4. The tool of claim **2** wherein said retractable means is operable by rotatable movement of said handle from an axially aligned position.

5. A working head for a tool adapted for electrically insulatably gripping the high voltage electrical cable terminator of the type having a body portion and a leg portion angularly projecting from said body portion, said working head comprising a longitudinally extending pole, a working head at one end of said pole, said working head comprising a pair of opposing jaw members, said jaw members defining a frontal opening for gripping the body portion of said terminator and a lateral opening for gripping the leg portion of said terminator, and means for moving said jaw members toward and away from each other whereby said terminator can be gripped and

released, said jaw members being arcuate shaped, and said frontal and said lateral openings being generally circularly shaped, said lateral opening being defined by semi-circular notches in lateral opposing edges of said jaw members.

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