T. E. MURRAY.

ELECTRIC CUT-OUT.

APPLICATION FILED MAY 31, 1912.

1,041,847. Patented Oct. 22, 1912.

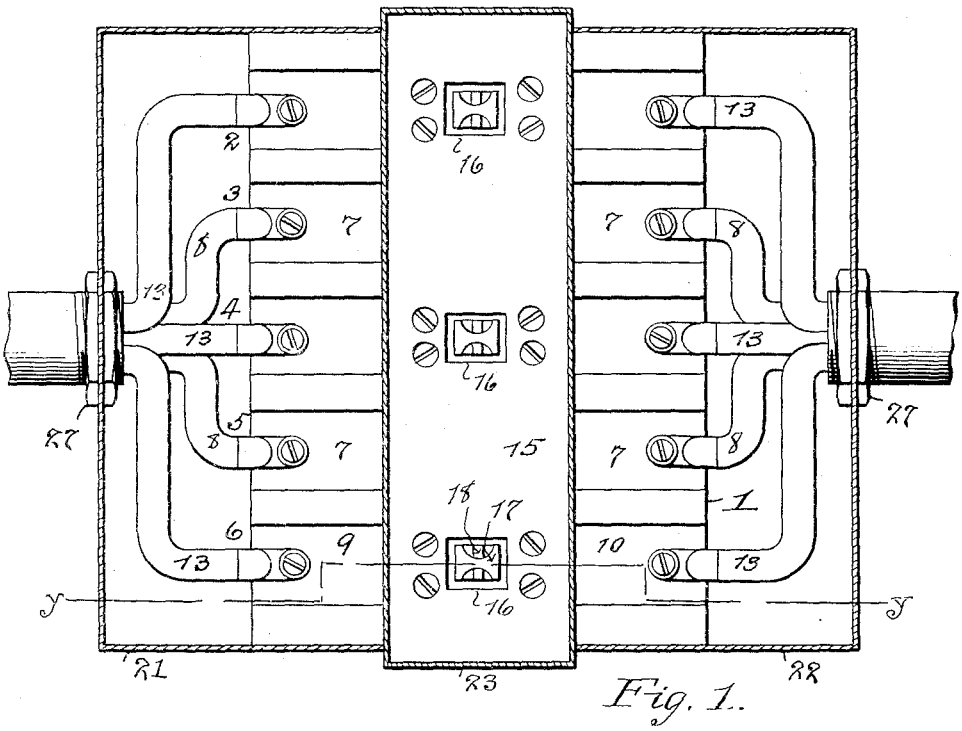


Fig. 1.

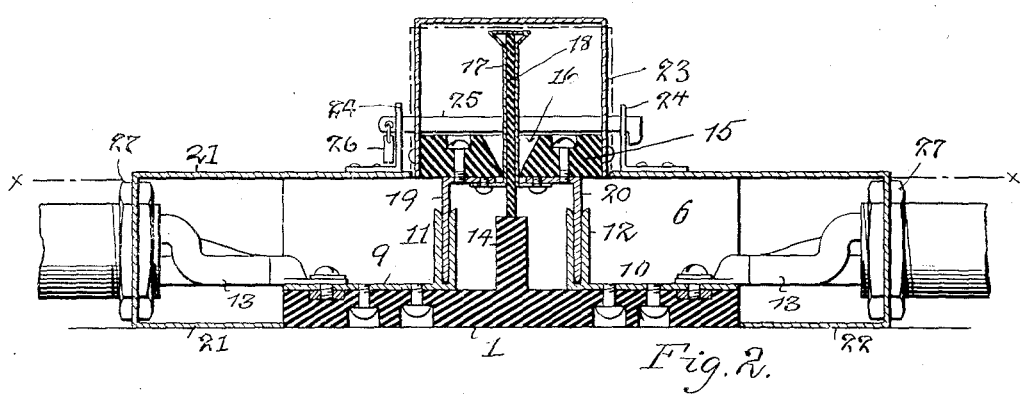
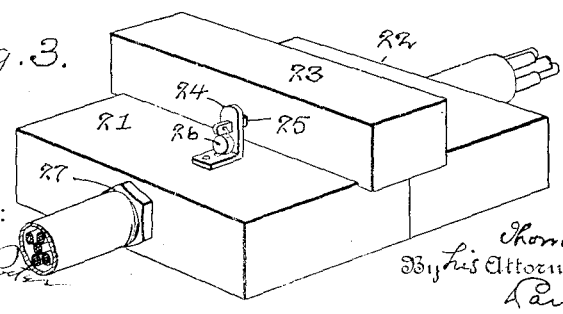


Fig. 2.

Fig. 3.



Witnesses:

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ELECTRIC CUT-OUT.

1,041,847. Specification of Letters Patent. Patented Oct. 22, 1912.

Application filed May 31, 1912. Serial No. 700,592.

To all whom it may concern:

Be it known that I, THOMAS E. MURRAY, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a certain new and useful Improvement in Electric Cut-Outs, of which the following is a specification.

The invention relates to electric cut-outs, and consists in the construction, hereinafter set forth, whereby a gang plug with fuses thereon may be inserted to establish circuit through certain of the leads connected to the base block, and to bring a fuse into each of said leads.

The invention further consists in the construction whereby the boxes receiving the base block and the cover disposed on the gang plug are locked together.

In the accompanying drawings—Figure 1 is a horizontal section of my cut-out on the line x, x of Fig. 2. Fig. 2 is a vertical longitudinal section on the line y, y of Fig. 1. Fig. 3 is a perspective view.

Similar numbers of reference indicate like parts.

1 is the base block of refractory insulating material, such as porcelain, having five channels 2, 3, 4, 5, 6. In the channels 3 and 5 may be conducting plates 7, to the ends of which are attached the terminals of circuit leads 8. In each channel 2, 4, 6 are secured two separated plates 9, 10, each plate having at its inner end a pair of contact clips; 11 on plate 9, and 12 on plate 10. The outer ends of plates 9, 10 are connected to circuit leads 13. Midway in each channel 2, 4 6 is a partition 14, which may be integral with the base block.

15 is a gang plug, the supporting portion of which is a plate of porcelain or other refractory insulating material, having three downwardly tapered openings 16, which, when the plate is in place on said base block, come over the channels 2, 4, 6. On opposite sides of each opening and secured to the under face of plug 16 is a pair of contact plates 19, 20, which enter the pairs of contact clips 11, 12. Secured at its ends to plates 19, 20, is a fuse 17, in upwardly extending loop form. Within the loop of the fuse is a bar 18 of refractory insulating material, which supports the said loop, and extends downwardly to meet the partition 14. The parts of the fuse loop and the bar 18 fit tightly in the opening 16, so that when plug 15 is removed to withdraw the contacts 19, 20 from the clips 11, 12, the bar 18 remains in place in said opening. It will, of course, be understood, that there are three fuses, and associated parts as above described, and that all three fuses are put into or cut out of circuit by the insertion or removal of plug 15.

The ends of base block 1 are inserted in metal boxes 21, 22, the top walls of which extend over said base block, to meet the side walls of a box-shaped metal cover 23, which is placed over the plug 15. On said top walls are standards 24, each having an opening. Through the standard openings and through the cover 23 extends a locking bar 25 which is secured in the usual way by a seal fastening 26. In the outer walls of boxes 21, 22 are the usual bushings 27, through which the circuit conductors pass.

While I have here shown three fuses respectively disposed in three of the circuit conductors represented, it is to be understood that I do not limit myself to that number, since I may arrange said fuses as here described in all of the conductors or in any number of them as circumstances may require, the associated parts being correspondingly disposed.

I claim:

1. An electric cut-out, comprising a base, circuit terminals thereon, a gang plug, pairs of contacts on one side of said plug coöperating with said terminals, and fuses connected respectively to each pair of contacts; the said fuses extending through openings in said plug and protruding from the opposite side thereof.

2. An electric cut-out, comprising a base, circuit terminals thereon, a gang plug, pairs of contacts on one side of said plug coöperating with said terminals, fuses in loop form connected respectively to each pair of contacts, and supports on said plug for said fuses; the said fuses extending through openings in said plug and protruding from the opposite side thereof.

3. An electric cut-out, comprising a base, circuit terminals thereon, a gang plug, pairs of contacts on one side of said plug coöperating with said terminals, fuses in loop form connected respectively to each pair of contacts, and supports for said fuses disposed within the loops thereof and within the openings in said plug; the said fuses and supports extending through said openings.

4. A base, circuit terminals thereon, a partition between said terminals, a gang plug, depending contacts on said plug coöperating with said terminals, a fuse in loop form connected to said contacts and extending through an opening in said plug, and an insulating support for said fuse disposed within the loop thereof and meeting said partition.

5. In combination with a base block and circuit connections therein, and a gang plug entering said block, two metal boxes having openings for the passage of circuit leads and receiving said base block, a box-shaped cover disposed on said plug, and means for locking said boxes to one another and to said cover.

6. In combination with a base block and circuit connections therein, and a gang plug entering said block, two metal boxes having openings for the passage of circuit leads and receiving said base block, a box-shaped cover disposed on said plug, standards having openings on said boxes, and a locking bar extending through said box openings and said cover.

In testimony whereof I have affixed my signature in presence of two witnesses.

THOMAS E. MURRAY.

Witnesses:
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