

(No Model.)

H. HANSEN.
ELECTRIC CUT-OUT.

No. 531,310.

Patented Dec. 25, 1894.

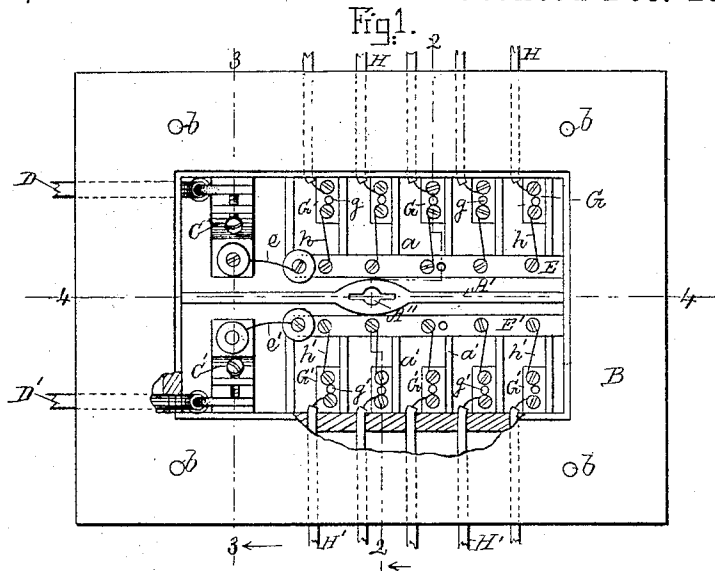


Fig. 2.

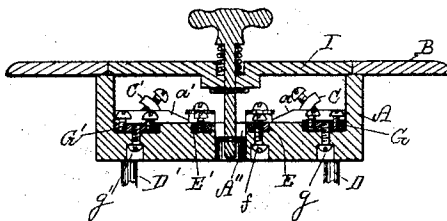


Fig. 3.

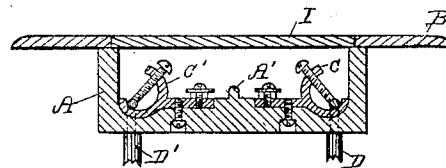


Fig. 4.

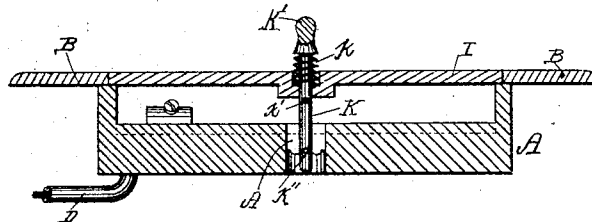
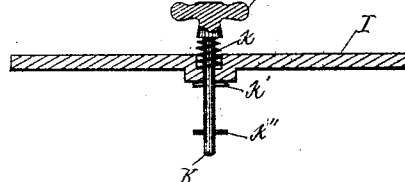


Fig. 5.



Witnesses:

Lauritz N. Möller.
Kittie M. Hanson.

Inventor

Harry Hansen.
by *K. van Auden*
his atty.

UNITED STATES PATENT OFFICE.

HARRY HANSEN, OF EVERETT, ASSIGNOR OF ONE-HALF TO NILS OLSON, OF MAPLEWOOD, MASSACHUSETTS.

ELECTRIC CUT-OUT.

SPECIFICATION forming part of Letters Patent No. 531,310, dated December 25, 1894.

Application filed January 23, 1894. Serial No. 497,810. (No model.)

To all whom it may concern:

Be it known that I, HARRY HANSEN, a citizen of the United States, and a resident of Everett, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in Electric Cut-Outs, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in electric cut outs and it consists of an electric cut out and box combined adapted to be inserted in a recess of a wall, floor or ceiling and having a face plate adapted to cover and conceal such recess as will hereinafter be more fully shown and described, reference being had to the accompanying drawings, wherein—

Figure 1, represents a top plan view of the device showing the cover removed and a portion of the box in section. Fig. 2, represents a cross section on the line 2—2 shown in Fig. 1. Fig. 3, represents a cross section on the line 3—3 shown in Fig. 1. Fig. 4, represents a longitudinal section on the line 4—4 shown in Fig. 1; and Fig. 5, represents a detail longitudinal section of the removable cover shown as detached from the box.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

The invention consists of a box A preferably made of porcelain or suitable insulating material to the upper edge of which is secured in a suitable manner a face plate B preferably made of metal and adapted to be secured to the wall, ceiling or floor by means of screws passing through the screw holes *b b* or in any other suitable or equivalent manner, as may be most convenient and practical.

In the bottom of the box A are secured the metal binder posts C and C' to which the respective line wires D and D' are metallically connected by binder screws as shown.

In recesses in the bottom of the porcelain box A are arranged the metal conductors E and E' which are connected respectively to the binder posts C and C' by means of fuses *e* and *e'* as shown.

The conductors E E' are secured to the bottom of the box A preferably by means of

screws *f* going through the bottom of said box from the under side thereof and screwed into said conductors as shown in Fig. 2.

I wish to state that although I have only shown a two wire system, the device is equally well adapted for a three or more wire system without departing from the essence of my invention.

The bottom of the box A has between the conductors E and E' an insulating rib A' for the purpose of insulating and preventing induction to take place between the said conductors and wires connected to the latter.

G G G and G' G' G' are a series of binder posts secured to the bottom of the box A preferably by means of screws *g g'* going through from the under side of the box and screwed into said binder posts as fully shown in Fig. 2.

h h h are fuses connecting the binder posts G with the conductor E; and *h' h' h'* are similar fuses connecting the binder posts G' with the conductor E' as fully shown in Fig. 1.

a a a are lateral ribs formed integral with the bottom of the box A and arranged between the binder posts G G so as to insulate the latter from each other. *a' a' a'* are similar ribs arranged for a similar purpose between the binder posts G' G' as shown in Fig. 1.

H H H are the respective lamp wires metallically connected to the binder posts G G; and H' H' are similar lamp wires connected to the binder posts G' G' on the opposite side of the box A as fully shown in Fig. 1. The said lamp wires are conducted through side perforations in the box A as fully shown in the sectioned portion of Fig. 1.

I is the detachable cover provided with a locking spindle K having a knob or handle K' in its outer end which is normally pressed outward by the influence of a spring *k* arranged between the under side of said handle K' and a cavity or recess in the cover I as shown in Figs. 4 and 5. *k'* is a stop pin or collar on said spindle K below the cover so as to prevent said pin from getting detached from the said cover I.

To the lower end of the spindle is secured a lateral pin or projection *k''* adapted to be passed through a slotted perforation A'' in the bottom of the box A as shown.

In locking the cover I onto the box A the said cover is placed in position, the spindle K is depressed causing the pin or projection *k''* to enter the slot A'' after which the spindle is turned a quarter of a revolution on its axis by which the said pin is locked to the bottom of the box A causing the cover I to be held closed until the said locking pin is turned a quarter of a revolution sufficient to permit the said pin and its projection *k''* to be withdrawn out of the slot A''.

From the above it will be seen that I provide an electric cut out and box combined which can readily be inserted in a wall, floor or ceiling cavity or recess in which it is concealed by the metal face plate attached to said box.

The interior wires, &c., are normally protected by the detachable cover which may easily be removed whenever so desired for the purpose of examination or repairs of the wire connections inside of the box as may be

needed from time to time in case of accident to any of the lamp circuits or their respective fuses.

What I wish to secure by Letters Patent and claim is—

The herein described electric cut out and box combined consisting of a sunken box A of insulating material having face plate B and detachable cover I, said box having longitudinal and lateral insulated ribs *a a' A'* conductors E E' connected by fuses to the line wires and lamp wires connected to said conductors by means of binder posts and fuses substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 12th day of January, A. D. 1894.

HARRY HANSEN.

Witnesses:

ALBAN ANDRÉN,
KITTIE M. HANSON.