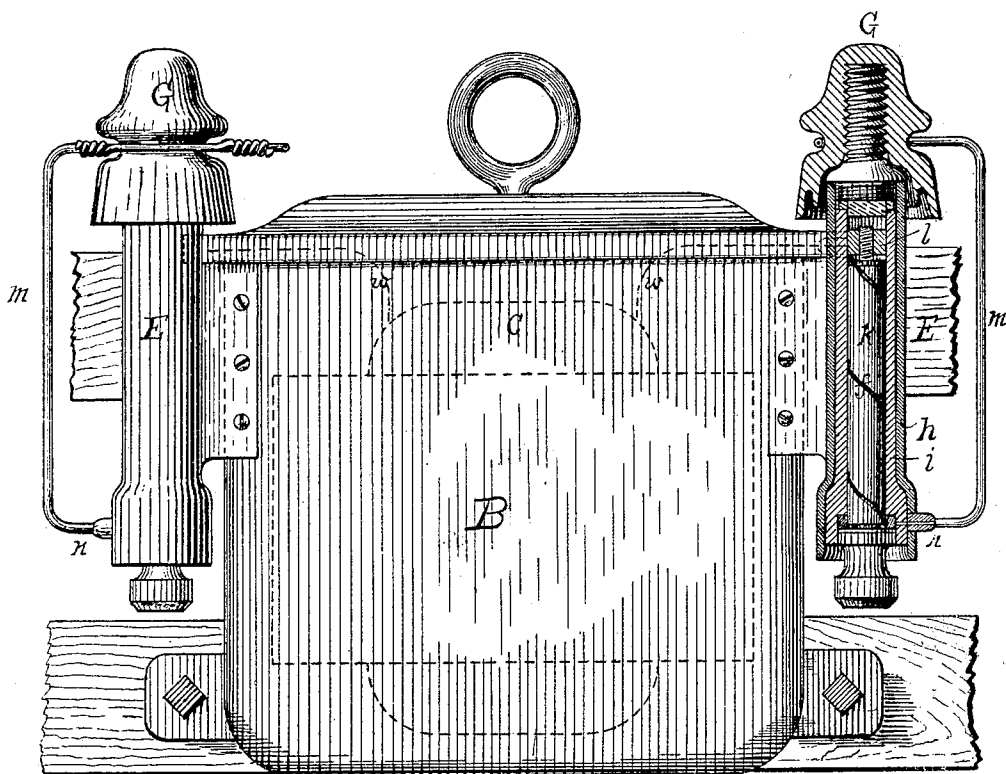


(No Model.)

H. A. WAGNER & F. SCHWEDTMANN.
ELECTRIC CUT-OUT AND INSULATOR.

No. 552,680.

Patented Jan. 7, 1896.



WITNESSES:

H. G. Alexander,

E. E. Turnell,

INVENTORS

Herbert A. Wagner,
Ferdinand Schwedtmann

BY

Fowler & Fowler

ATTORNEYS

UNITED STATES PATENT OFFICE.

HERBERT A. WAGNER AND FERDINAND SCHWEDTMANN, OF ST. LOUIS,
MISSOURI.

ELECTRIC CUT-OUT AND INSULATOR.

SPECIFICATION forming part of Letters Patent No. 552,680, dated January 7, 1896.

Application filed January 21, 1895. Serial No. 535,652. (No model.)

To all whom it may concern:

Be it known that we, HERBERT A. WAGNER and FERDINAND SCHWEDTMANN, citizens of the United States, residing at the city of St. Louis, in the State of Missouri, have invented a certain new and useful Electric Cut-Out and Insulator, more particularly for transformers, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

Our invention relates to a new and useful improvement in fusible cut-outs and insulators for use in electric circuits, and more particularly for the primary circuits of alternating-current transformers, and relates more especially to the means for supporting such devices. Such fusible cut-outs are usually placed on a convenient support near the transformer, and sometimes on the transformer-box; but the wires coming from the supply-mains are always supported by separate brackets carrying porcelain or glass insulators, and attached to the wall or support near the transformer. The wires cannot be led directly from the transformer to the supply-mains, as their weight and the strain of the wires would pull them out of the coils. To avoid the expense and inconvenience of thus supporting these devices separately, we have devised a means by which they may all be combined.

The drawing represents an elevation of an apparatus made in accordance with our invention, one of the cut-outs being in section, substantially like that described in our application, Serial No. 534,000, filed January 5, 1895.

The drawing represents a transformer-box B, of metal, with fuse cut-outs E and line-wires supporting insulators G attached. Each fuse cut-out consists preferably of an outer metal shell or holder *h* and an inner shell of non-conducting material *i* inclosing a removable core *k*, also of non-conducting material, and carrying a fusible metal strip *f*, as in the aforementioned application. The wires *w* leading from the primary coil *c* of the transformer are connected suitably with the terminals *l* of the fuses *f*, and make electrical

connection through such fuses with the wires *m* passing out through the insulating bushings *n* to the insulators G, from whence they are led to the supply-mains. The insulators G are shown attached or secured to the upper ends of the fuse cut-out shells *h*, but they may be attached to any other suitable portion of the transformer-box. The fuse cut-out shells may be cast in one with the transformer-box or suitably attached thereto—as, for instance, by means of screws or bolts, as shown, in which latter case they may be removed, if desired, and attached to any other convenient support.

We know that insulating-housings of different materials have been used where wires are led out of transformer-boxes, and do not broadly claim such as our invention, but these former housings have never been used to support or take up the strain of the wires leading from the supply-mains, nor can they be so used.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination with a transformer, of an inclosing-box or case of metal therefor, two metallic shells carried thereby, a line-wire-supporting insulator mounted on each shell, and a fusible cut-out in each shell interposed in the circuit between each line wire and the coils of the transformer.

2. The combination with a transformer, of an inclosing-box or case of metal therefor, two metallic shells carried thereby, a line-wire-supporting insulator mounted on one end of each shell, a removable core of non-conducting material within each shell and protruding from the other end of said shell, and a fusible cut-out carried by each core and interposed in the circuit between each line wire and the coils of the transformer.

In testimony whereof we have hereunto set our hands and affixed our seals, this 18th day of January, 1895, in the presence of two subscribing witnesses.

HERBERT A. WAGNER. [L. S.]
FERDINAND SCHWEDTMANN. [L. S.]

Witnesses:

A. C. FOWLER,
J. F. WESTON.