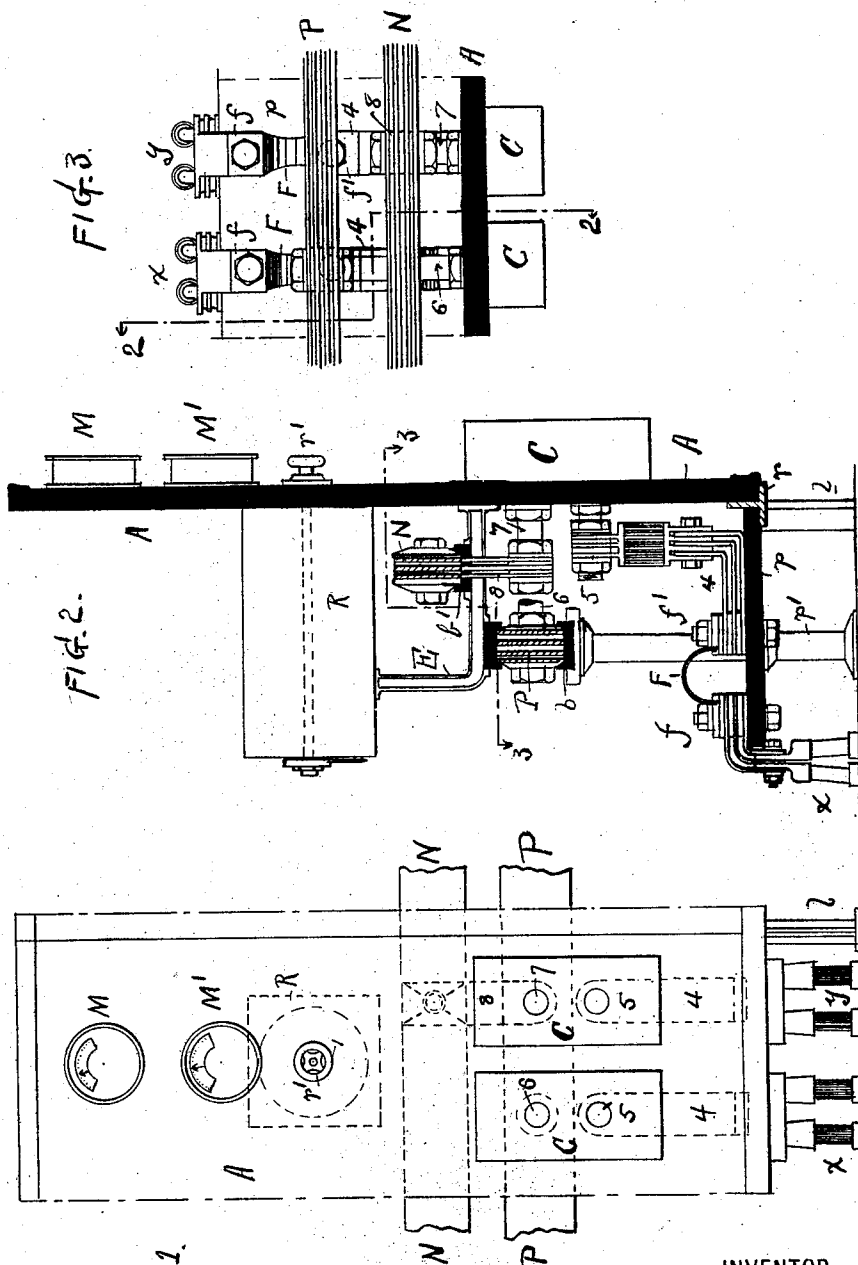


No. 760,077.

PATENTED MAY 17, 1904.

E. W. MÜLLER.
ELECTRICAL SWITCHBOARD.
APPLICATION FILED NOV. 20, 1902.

NO MODEL.



WITNESSES:

P. W. Wright,
E. W. Collins

FIG. 1.

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UNITED STATES PATENT OFFICE.

ERNEST W. MÜLLER, OF BROOKLYN, NEW YORK, ASSIGNOR TO HUBERT KRANTZ, OF BROOKLYN, NEW YORK.

ELECTRICAL SWITCHBOARD.

SPECIFICATION forming part of Letters Patent No. 760,077, dated May 17, 1904.

Application filed November 20, 1902. Serial No. 132,154. (No model.)

To all whom it may concern:

Be it known that I, ERNEST W. MÜLLER, a citizen of the United States of America, residing in the borough of Brooklyn, county of Kings, State of New York, have invented an Improved Electrical Switchboard, of which the following is a specification.

This invention relates to electrical switchboards, particularly of that class in which the fuses are concealed behind the board; and it has for its object to so locate and arrange such fuses as to reduce the danger of the attendant's contact with the current-carrying bus-bars.

Switchboards carrying fuses on their outer face are open to the objection that in blowing out the fuses scorch, blacken, and otherwise damage the board. To place the fuses on the back of the board makes it dangerous for an attendant to replace a blown fuse, because he is liable to come into contact with the heavy generally uncovered bus-bars and connections at the back of the board and liable also to make short circuits with his wrench or other tool. To do away with these dangers, I construct a platform projecting backward from the board. I attach the fuses on this platform, where the fuses and connections are readily accessible and at a reasonably safe distance from the bus-bars.

In the accompanying drawings, Figure 1 is a front elevation of one section of a switchboard for the lead-wires from one dynamo. Fig. 2 is a section on the line 2 2, Fig. 3; and Fig. 3 is a section on the line 3 3, Fig. 2.

A is the upright switchboard, of marble, slate, or other suitable material, supported by the T-rail *r* on legs *l*. This board carries on its face the necessary measuring instruments M M', the controlling-handle *r'* of the rheostat R, and the circuit-breakers C C. I have shown a circuit-breaker for each of the dynamo-leads in my drawings.

At the back of the switchboard A, I secure a rearwardly-projecting platform *p*, near the back edge of which are the binding-posts *f f'* for the fuses F. The dynamo-leads *x* and *y* are secured to the outer posts *f*, while metal bars 4, leading to posts 5, which enter the circuit-breaker, are connected to the inner posts *f*.

Posts *p'* carry at their upper ends insulating-blocks *b*, on which rests the positive bus-bars P. Posts 6, clamped to the bus-bar P, extend to the upper part of every other circuit-breaker C, while the posts 7 carry vertical bars 8, extending from the other circuit-breakers. These bars 8 are in turn bolted to the negative bus-bars N, which are supported on insulating-blocks *b'* on brackets E.

I claim as my invention—

1. An electrical switchboard, comprising an upright board, bus-bars and electrical connection, with a rearwardly-projecting platform, fuses thereon at a distance from said bars and electrical connections, substantially as described.

2. An electrical switchboard, comprising an upright board carrying on its outer face the usual electrical appliances, posts in the rear of said board, bus-bars supported by said posts and board, and a rearwardly-projecting platform to the board supported by said post, and fuses on said board, and connections therefrom to the leads and to the appliances carried on the outer face of the board, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ERNEST W. MÜLLER.

Witnesses:

SARAH CARSON CANOR,
F. WARREN WRIGHT.