W. J. MAGEE.

SWITCHBOARD.

APPLICATION FILED FEB. 14, 1912.

Patented Nov. 5, 1912.

1,043,615.

3 SHEETS—SHEET 1.

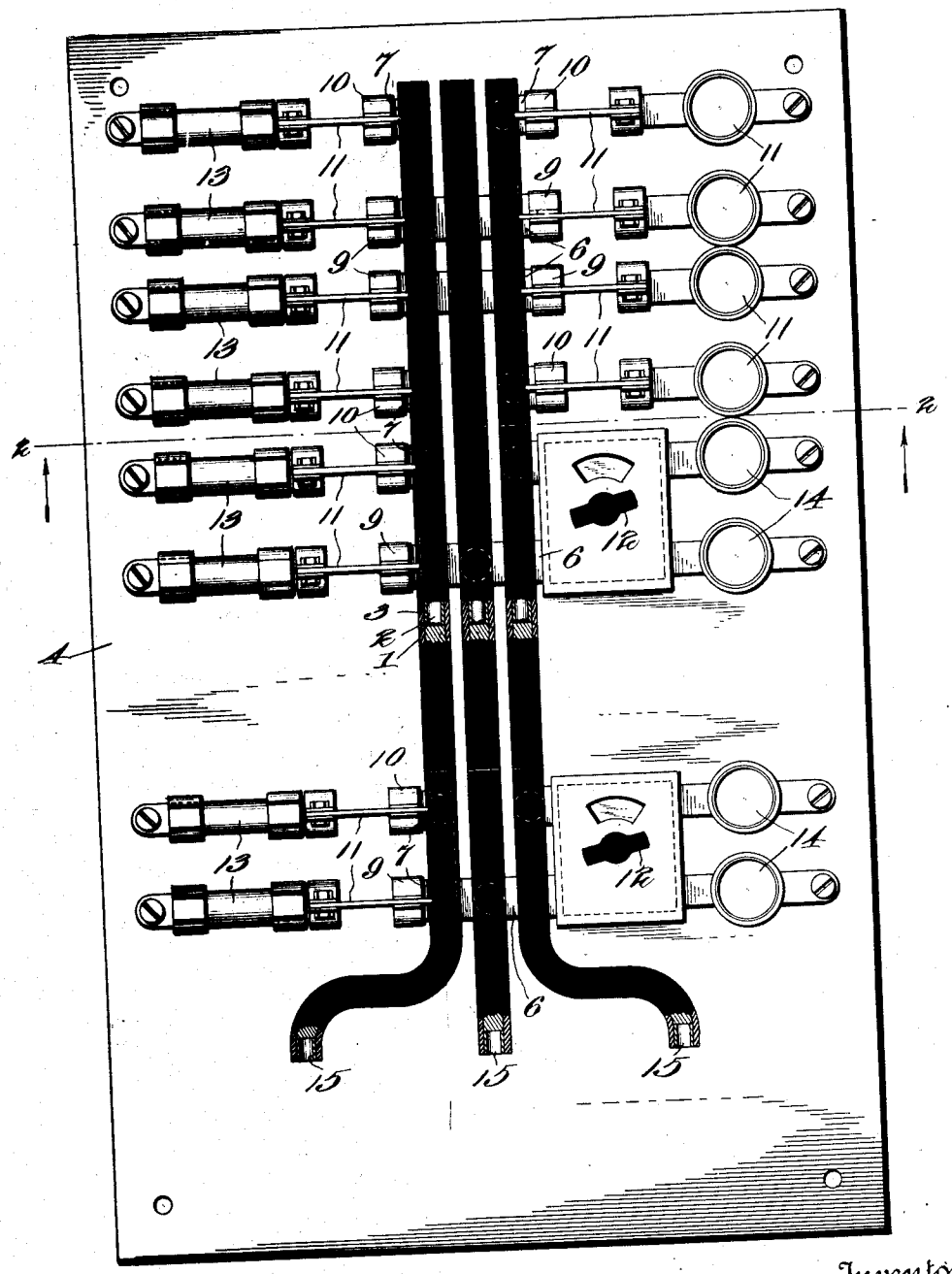


Fig. 1.

Witnesses
W. Mag. Durall.
H. W. Primm.

Inventor.
Wm. J. Magee,
by Wilkinson, Fisher & Witherspoon
Attorneys

W. J. MAGEE.

SWITCHBOARD.

APPLICATION FILED FEB. 14, 1912.

1,043,615.

Patented Nov. 5, 1912.

3 SHEETS—SHEET 2.

Fig. 2.

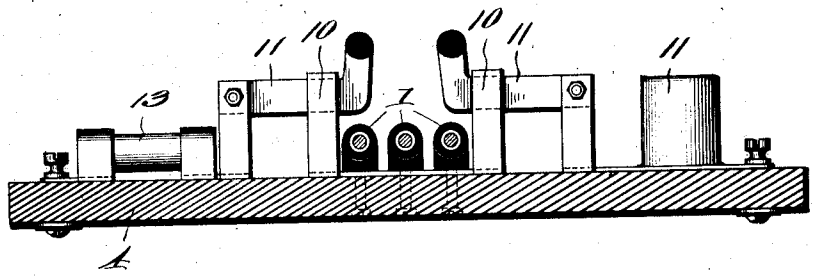
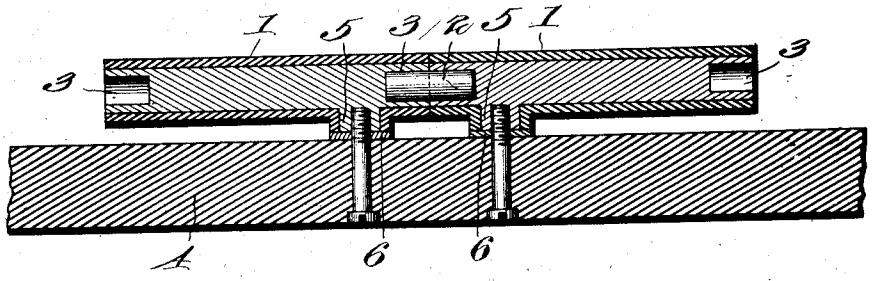


Fig. 3.



Witnesses
M. May Duvall
H. W. Primm

Inventor.
Wm. J. Magee,
by Wilkinson Fisher & Witherspoon
Attorneys.

W. J. MAGEE.

SWITCHBOARD.

APPLICATION FILED FEB. 14, 1912.

1,043,615.

Patented Nov. 5, 1912.

3 SHEETS—SHEET 3.

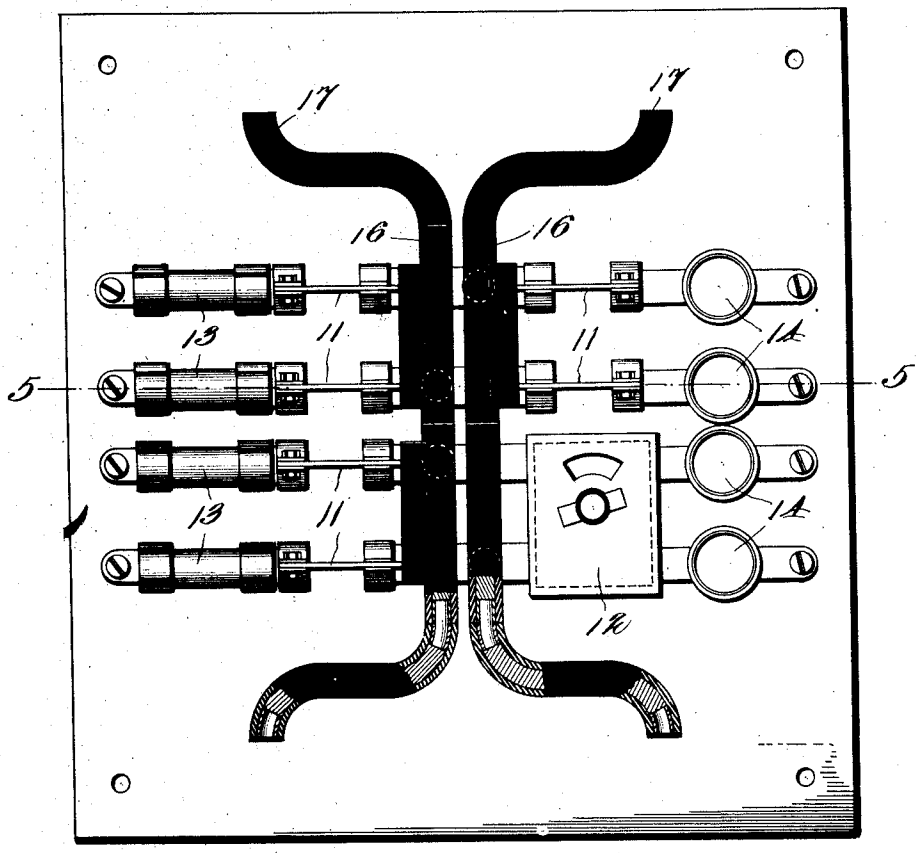


Fig. 4.

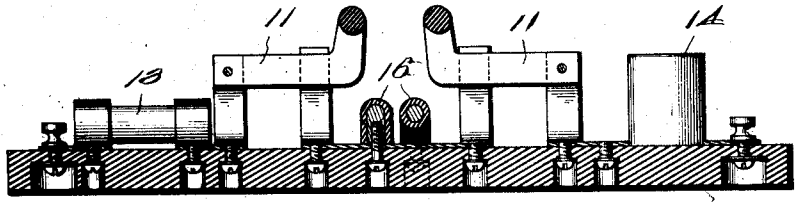


Fig. 5.

Witnesses
W. Max. Durall.
H. W. Prince

Inventor
Wm. J. Magee,
by Williamson, Fisher & Witherspoon.
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM JOHN MAGEE, OF NEW ORLEANS, LOUISIANA, ASSIGNOR TO SOUTHERN STAMPING & DIE WORKS, OF NEW ORLEANS, LOUISIANA.

SWITCHBOARD.

1,043,615. Specification of Letters Patent. Patented Nov. 5, 1912.

Application filed February 14, 1912. Serial No. 677,498.

To all whom it may concern:

Be it known that I, WILLIAM JOHN MAGEE, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in Switchboards; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in switch boards, and it consists in the constructions, combinations, and arrangements herein described and claimed.

An object of my invention is to provide an improved switch board having sections of insulated copper secured together to constitute continuous, insulated bus bars, which are electrically connected by flat cross plates to the switch terminals; thereby providing a simple and inexpensive construction which is effectively protected from danger of cross circuits, and in which the bus bars and switches can be more compactly and conveniently assembled than has been possible in previous constructions.

In the accompanying drawings forming a part of this application, and in which similar reference symbols indicate corresponding parts in the several views:—Figure 1 is a front elevation of a main panel section provided with a three-wire main and two-wire branches, illustrating one embodiment of my invention; Fig. 2 is a section on the line 2—2 of Fig. 1; Fig. 3 is an enlarged, detail, axial section, through a pair of connected bus bar sections and the panel section; Fig. 4 is a front elevation of a main panel section provided with a through-feed, two-wire main; and Fig. 5 is a section on the line 5—5 of Fig. 4.

Referring to the drawings, 1 indicates duplicate sections of insulated copper secured together by pins 2 to constitute continuous, insulated bus bars; the pins 2 being preferably heated and inserted in previously tinned bores 3 in the ends of said sections. The sections 1 are spaced from the panel by integral supporting legs 5, and flat metal plates 6 and 7 are clamped between said supporting legs and the panel by screws 8, to provide electrical connections between the bus bars and the switch terminals 9 and 10.

Figs. 4 and 5 illustrate my invention applied to a main panel section provided with a through-feed, two-wire main, in which the sectional bus bars 16 are provided at both ends with terminals 17 for the main-line switches.

I have illustrated panel sections equipped with both knife switches 11 and snap switches 12, and having both inclosed fuses 13 and plug fuses 14 in the two wire branches, but my invention is equally adapted for use with any usual types of two-wire or three-wire switches or fuses. The cross connections are suitably spaced to accommodate any desired standard switch, and the terminals of the bus bars are readily adapted for any standard main line two-wire or three-wire switch.

From the above description, it will be clear that my invention provides a compact and efficient construction adapted for convenient operation with a minimum danger of cross circuits and accidents.

I claim:—

1. In a switch board, an insulated bus bar comprising a series of abutting sections of insulated wire formed with registering end bores and with offset legs for spacing said sections from the board, and pins secured within such bores for fastening the ends of said abutting sections together.

2. In a switch board, an insulated bus bar comprising a series of abutting sections of insulated wire formed with axial end bores and with offset legs toward one end for spacing said sections from the board, pins secured within such bores for fastening the ends of said abutting sections together, and flat conducting plates clamped between said legs and switch board.

In testimony whereof, I affix my signature, in presence of two witnesses.

WILLIAM JOHN MAGEE.

Witnesses:

OLIVER H. VAN HORN,

FRANK RIPP.