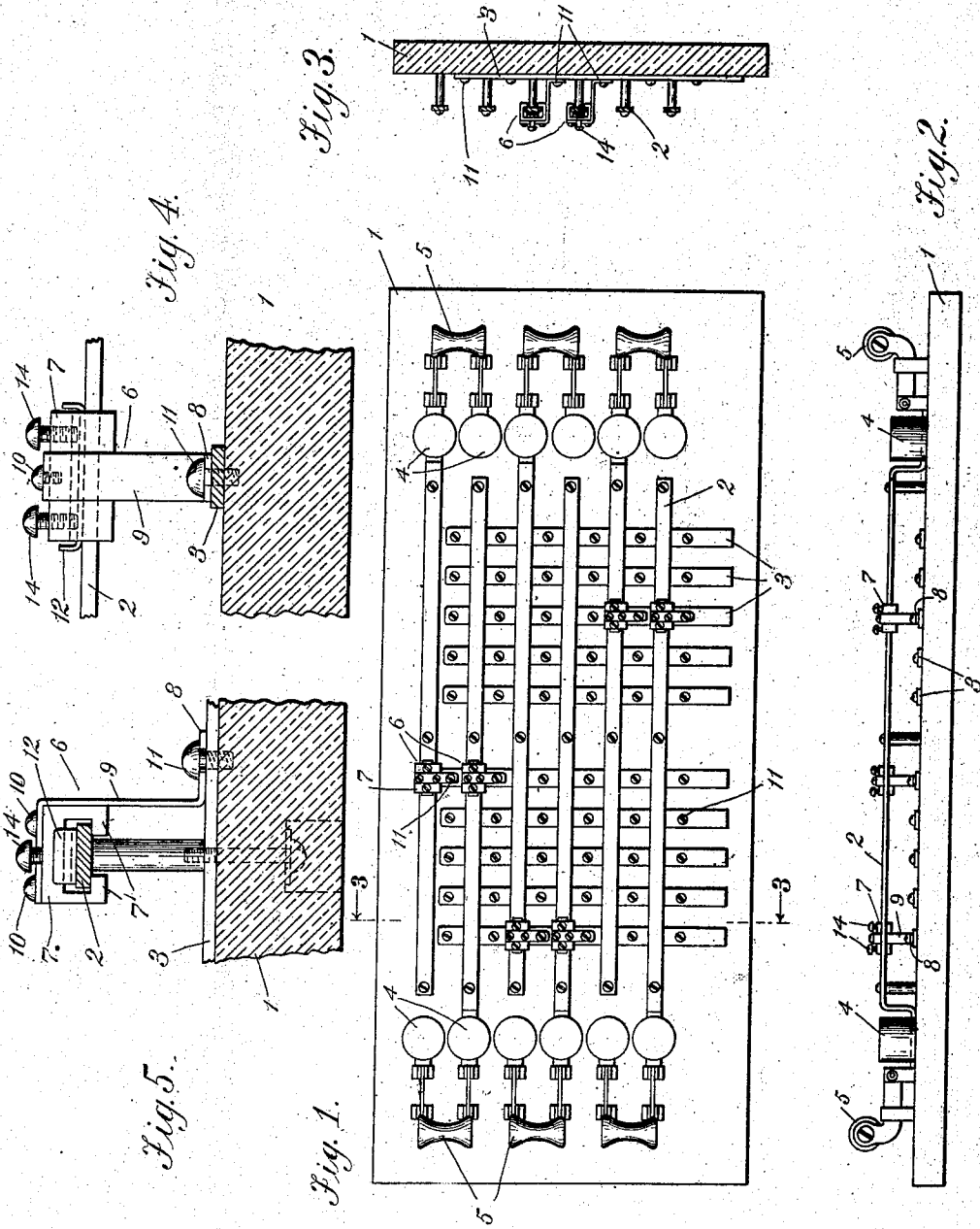


J. J. AGUTTER.
METERING PANEL BOARD.
APPLICATION FILED MAY 24, 1909.

947,956.

Patented Feb. 1, 1910.



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UNITED STATES PATENT OFFICE.

JOHN J. AGUTTER, OF SEATTLE, WASHINGTON.

METERING PANEL-BOARD.

947,956.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN J. AGUTTER, a citizen of the United States of America, and a resident of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Metering Panel-Boards, of which the following is a specification.

My invention relates to switch boards, having more particular reference to the type commonly known as metering panel boards and has for its primary object to provide a construction of the above type involving connecting means of novel construction and arrangement for permitting of changes in the distribution and metering of the electric current, being readily made.

With this and other objects in view, to be referred to as my description progresses, my invention resides in the features of construction, arrangements and combination of parts hereinafter described and succinctly defined in my annexed claims.

Referring to the accompanying drawing, wherein like numerals of reference indicate like parts throughout the several views: Figure 1 is a top plan view of a panel board embodying my invention. Fig. 2 is an edge view thereof. Fig. 3 is a section taken on line 3—3 of Fig. 1. Fig. 4 is a fragmentary sectional view on enlarged scale, illustrating more particularly the construction and arrangement of any of my adjustable connections, and Fig. 5 is a similar view taken at right angles to Fig. 4.

In carrying out my invention, I provide a panel board or base 1 of suitable material on which are arranged the conducting members comprising distributing bars 2 and meter bars 3, the former crossing the latter and being elevated therefrom and being connected with the meters (not shown) in the usual manner.

Distributing bars 2 are connected in any desired manner with the usual fuses 4 and switches 5, provided in the light circuits, not shown.

Reference numeral 6 indicates connections of novel construction adjustably supported on distributing bars 2 to permit of electrical connections being made between them and any of the meter bars 3, whereby any circuit or combinations of circuits can be connected with any meter, as is well understood. Connections 6 comprise contact members 7 and 8 having connections 9 therebetween.

Contact members 7 are slotted to receive bars 2 and provided at their lower edges with in-turned flanges or lips 7' adapted to engage thereunder and thereby prevent removal of the connection, see Fig. 5.

Contact members 8 are preferably in the form of angularly disposed lugs formed integral with the lower end portions of connections 9, which latter are preferably rigid and depend from contact members 7, being, as now considered removably secured thereto, as by screws 10.

Fastening means, as 11, consisting of screws threaded in meter bars 3, are provided for securing contact members 8, which are apertured to receive the same, thereto.

Inasmuch as the heads of screws 11, project from the upper faces of the meter bars carrying the same, provision must obviously be made to permit of contact members 8 clearing the same during shifting of the connections 6. Therefore, I form the slots of contact members 7 of such dimensions that the connections 6 can be swung slightly on their supporting bars. Shoes 12, arranged in contact members 7 and engaged by suitable adjusting means, as screws 14, threaded in contact members 7, are provided to enable these contact members being normally held in a firm manner on the distributing bars.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States of America, is:

1. A switch board comprising a base, two series of conductors on said base spaced from and crossing one another, contact members slidably supported on the conductors of one series, other contact members carried by said first named contact member, and means on said other series of conductors for securing said last named contact members thereto.

2. A switch board comprising a base, two series of conductors on said base spaced from and crossing one another, contact members supported on the conductors of one series for sliding and swinging thereon, other contact members carried by said first named contact members, and means for securing said last named contact members to said other series of conductors.

3. A switch board comprising a base, two series of conductors on said base spaced from and crossing one another, contact members supported loosely on the conductors of one

series for sliding thereon, means carried by said contact members for securing the same in a rigid manner on said last named conductors, and other contact members arranged to engage the conductors of said other series and having rigid connection with said first named contact members.

4. A switch board comprising a base, two series of conductors on said base spaced from and crossing one another, contact members supported loosely on the conductors of one series sliding thereon, contact shoes in said contact members, adjusting means threaded in said contact members and engaged with said shoes for holding said contact members in firm engagement with said last named series of conductors, apertured contact members carried by said first named contact members, and screws threaded in the conductors of said other series adapted to be engaged in the apertures of said last named contact members for securing the same thereto.

5. A switch board comprising a base, two series of conductors on said base spaced from and crossing one another, contact members supported loosely on the conductors of one series for sliding thereon, contact shoes freely supported in said contact members

and bearing on the adjacent conductors, means adjustably supported on said contact members and engaged with said shoes for holding said contact members in firm engagement with said conductors, apertured contact members, rigid connections depending from said first named contact members and carrying said apertured contact members, and securing means carried by the conductors of said other series arranged for engagement in the apertures of said last named contact members.

6. A switch board comprising a base, two series of conductors on said base spaced from and crossing one another, and means for connecting the conductors of one series with those of the other comprising slidable contact members held on the conductors of one series against removal therefrom, and other contact members carried by said first named contact members and being removably secured to the conductors of the other series.

Signed at Seattle, Washington this 15 day of May 1909.

JOHN J. AGUTTER.

Witnesses:

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