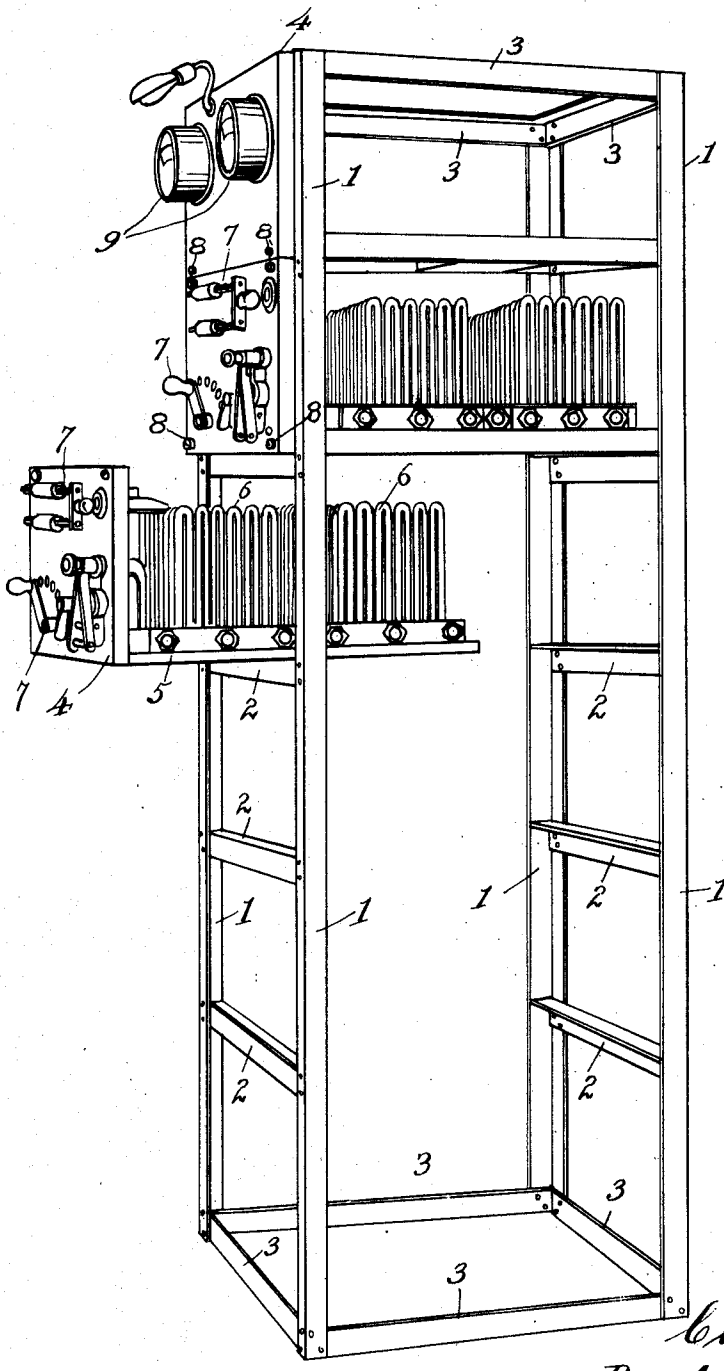
April 29, 1924. 1,492,309

C. E. OGDEN

SWITCHBOARD

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Inventor:
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UNITED STATES PATENT OFFICE.

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SWITCHBOARD.

Application filed September 19, 1919. Serial No. 324,996.

To all whom it may concern:

Be it known that I, CLARENCE E. OGDEN, a citizen of the United States, and a resident of Cincinnati, county of Hamilton, and State of Ohio, have invented certain new and useful Improvements in Switchboards, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to electric switch boards, and has particular reference to switch boards arranged and adapted for the charging of storage batteries of motor vehicles.

The principal object of the present invention is to provide a switch board construction, in which the panel arrangement is elastic, that is, of such a nature that units may be successively added as it is desired to increase the capacity of the board.

A further object of the present invention is to provide a panel construction and frame therefor, wherein the board proper is relieved of the strain of supporting the necessary resistance grids. In switch board panels, as heretofore constructed, the resistance grids are mounted upon proper supports secured to the panel, said panel being usually of slate. Such construction imposes the weight of the grids upon the more or less fragile material of the board, and hence breakages and consequent necessity for replacement of the boards are more or less frequent. It is to the prevention of these defects, my invention, in the present aspect, is directed.

Further objects of the invention will appear from the following detailed description thereof.

In the drawings the figure illustrates a switch board constructed in accordance with the present invention, the same being shown in perspective, and the frame being provided with but a portion of the panels for which it is ultimately designed.

The supporting frame of the present invention comprises four upright, 1, constructed of standard angle bars, and cross bars 2, also constructed of similar angle bars. The cross bars 2 are arranged in pairs, as clearly shown in the drawings, one of each pair extending between the front uprights 1, and the other between the two rear uprights. The cross bars 2 are spaced at suitable intervals to provide spaces between the bars for the insertion of the switch board panels, in such a manner that when a number of panels have been placed within the frame the same may be arranged in contiguous vertical relation. The frame 1 is also provided with bottom and top cross braces 3.

Each of the panels comprises a slate board or panel 4 and a tray or supporting frame 5, for resistance grids 6, the tray being secured to the rear of the board in any suitable manner. The front of the board is provided with the usual switches and instruments 7. The tray 5 is arranged to slide between the uprights 1 of the frame and to rest upon cross bars 2 at the front and rear of the frame. When in position the unit or panel is secured at the front by means of bolts 8 which secure the board 4 to the front uprights.

From the foregoing description it will be seen that in a frame constructed as above set forth, units or panels may be inserted as required, and, of course, inter-connected electrically in the usual manner. When a plurality of the units or panels have been placed within the frame, the boards 4 are vertically contiguous to each other so that the whole presents a uniform and neat appearance. In the top space it is ordinarily preferable to place a panel 4 provided with the usual voltmeter and ammeter 9. When a unit or panel is inserted in the frame the tray 5 rests at the front and rear upon the cross bars 2, and thus the weight of the grids is placed wholly upon said cross bars and the frame, entirely relieving the slate panels 4 from the strain thereof.

The present invention thus provides an elastic switch board construction which is adapted to be added to as requirements for increased capacity arise, and wherein the fragile panels are relieved of all excess or undue strain.

Having thus fully described my invention, which I claim is new, and desire to secure by Letters Patent is:

In a switch board, in combination with a frame having supporting posts and cross-bars mounted between said posts, a charging unit comprising a tray arranged to rest on said cross-bars between said posts, resistance mounted in said tray, and a panel secured at one end of said tray and arranged to be secured to the front pair of posts.

CLARENCE E. OGDEN.