

No. 861,587.

PATENTED JULY 30, 1907.

W. D. GRAVES.
SECTIONAL ELECTRICAL SWITCHBOARD.
APPLICATION FILED JULY 11, 1906.

Fig 1

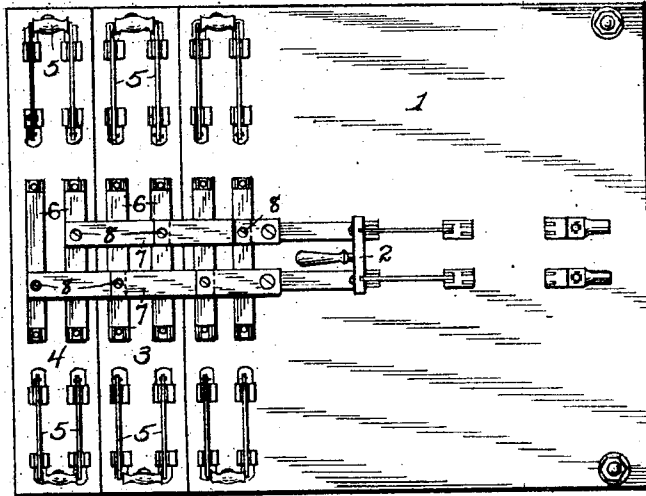


Fig 2

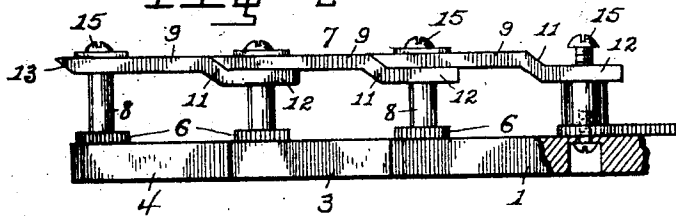
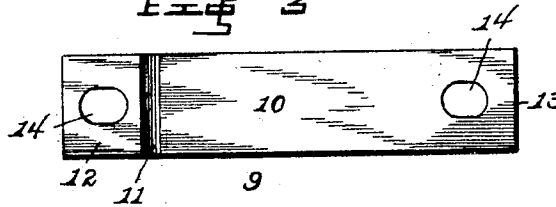


Fig 3



Witnesses:

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WILLIAM D. GRAVES, OF WHEELING, WEST VIRGINIA.

SECTIONAL ELECTRICAL SWITCHBOARD.

No. 861,587.

Specification of Letters Patent.

Patented July 30, 1907.

Application filed July 11, 1906. Serial No. 325,717.

To all whom it may concern:

Be it known that I, WILLIAM D. GRAVES, a citizen of the United States of America, and a resident of Wheeling, county of Ohio, and State of West Virginia, have invented certain new and useful Improvements in Sectional Electrical Switchboards, of which the following is a specification.

My invention relates to new and useful improvements in switchboards, and more particularly to a sectional switchboard; and it consists in the particular construction, arrangement, and combination of parts which will hereinafter be fully described.

The object of my invention is to provide a sectional electrical switchboard and sectional bus-bars therefor, the same being adapted to be made or builded to any size and to have sections added thereto as occasion requires or as necessity demands.

As is well known, electrical switchboards are commonly made in a great variety of sizes, and, in many cases, switchboards of odd, or special, sizes must be constructed. This renders it practically impossible for small dealers to carry in stock all of the various sizes of switchboards for which orders may be received.

By my invention I provide a construction of switchboard which obviates the necessity of any dealer carrying in stock a large variety of sizes of switchboards, since it is formed of like sections which may be quickly and conveniently fitted together and electrically connected to form a board of any desired size.

In describing the invention in detail, reference is herein had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a front elevation of my invention; Fig. 2 is a side, or edge, view of a broken section of the same, showing the switches removed; and Fig. 3 is an elevation of a section of a bus-bar.

Referring to said drawings, in which like reference numerals designate like parts throughout the several views—1 indicates a main panel section carrying a main switch 2 for connection with a main line or circuit, and 3 and 4 are like auxiliary, or unit, sections placed side by side and adapted to have still other like sections joined thereto. Each unit section is provided with the ordinary switches 5 for connection with distributing circuits, and also with suitable conductors for connecting the corresponding terminals or contacts of the several switches 5 together. Said conductors consist of cross bus-bars 6, which extend lengthwise of the unit sections, of bus-bars 7, which extend transversely across the unit sections, and of the ordinary contact-posts 8 which connect said bus-bars 6 and 7 and upon which said bus-bars 7 are mounted, as shown in Fig. 2. Said bus-bars 7 are made in sections 9 which join or connect the corre-

sponding bus-bars 6 of the panels or unit sections. Each of said sections 9 consists of a straight body-portion 10, a downward and forward bend 11 at a suitable angle near one end thereof, and said end 12 parallel to, and in a plane substantially the thickness of the bar below said body-portion.

The opposite end 13 of each section 9 is adapted to rest upon the end 12 of the next adjacent section with its upper face flush with the face of the body-portion 10 of said adjacent section. The extreme end 13 is beveled or shaped to correspond with the angle of the bend 11, so that when several sections 9 are joined together, the bus-bar presents a plain and unbroken surface or face, as shown in Fig. 2, and said bar forms a continuous and uninterrupted electrical path.

Slightly elongated apertures 14 are provided in each end of the sections 9, through which the ordinary screws 15 are projected into the posts 8 to secure them in position, said elongated apertures being adapted to admit of slight longitudinal adjustment of said sections.

As is apparent, by my invention I render it possible to build a switchboard of any desired length by employing a main section or panel and the number of unit sections or panels required to form that length, and by connecting said sections or panels with my sectional bus-bars.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a device of the character described, the combination with a sectional switchboard, of bus-bars comprising a plurality of sections, each section consisting of a straight body-portion, a downward bend near one end thereof, said end parallel to and substantially the thickness of the bar below said body-portion, and the opposite end beveled to fit the bend in the next adjacent section, whereby a plain, straight, unbroken surface forming a continuous and uninterrupted electrical path is constituted the last-mentioned end being adapted to rest upon the first mentioned end of the next adjacent section and each end having elongated apertures therein which admit of slight longitudinal adjustment of said sections.

2. In a device of the character described, a bus-bar composed of a plurality of sections adapted to fit together to present a plain, straight, unbroken surface, each section having a downward and forward bend in one end thereof adapted to receive the plain end of the next adjacent section to form a continuous and uninterrupted electrical path said plain end having its extremity beveled to fit closely against the bend of the next adjacent section, and each section having slots or elongated screw-holding apertures therein.

Signed by me in the presence of two subscribing witnesses.

WILLIAM D. GRAVES.

Witnesses:

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H. L. PORTER.