

W. D. SARGENT.
Telegraph Switch-Boards.

No. 142,817.

Patented September 16, 1873.

fig. 1.

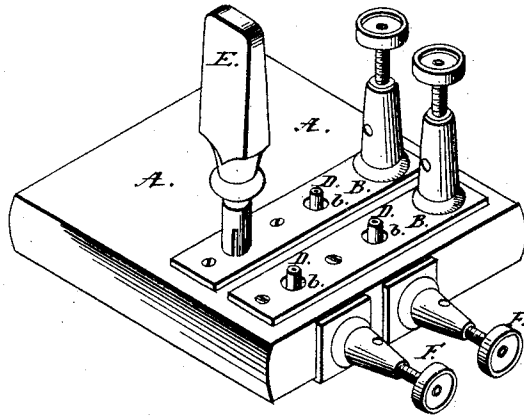


fig. 2.

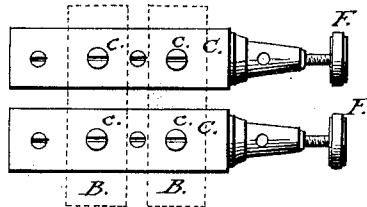


fig. 3.



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WILLIAM D. SARGENT, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN TELEGRAPH SWITCH-BOARDS.

Specification forming part of Letters Patent No. **142,817**, dated September 16, 1873; application filed March 25, 1873.

To all whom it may concern:

Be it known that I, WILLIAM D. SARGENT, of Philadelphia, Pennsylvania, have invented certain new and useful Improvements in Telegraph and Electrical Switch-Boards, of which the following, taken in connection with the drawing forming part of this specification, is a full and exact description:

My invention relates to that class of switch-boards composed of transverse metallic straps secured to opposite sides of a wooden or other insulating frame; and my improvements thereon consist in leaving the under or back straps solid, and attaching thereto solid studs, which project up to or through the holes in the upper or front straps, and concentric thereto; and, also, in a peg made hollow and slotted; and, lastly, in the combination of this hollow peg and the solid studs, all as more fully herein-after stated.

Referring to the accompanying drawing, Figure 1 gives a view of the instrument, showing one of the contact-pegs in position. Fig. 2 is a plan of the instrument, showing, particularly, the manner in which the metallic studs are connected to the straps on the back of the board. Fig. 3 is a view of one of the contact-pegs.

Similar letters refer to similar parts of the instrument wherever used in the drawing.

A A is the base, of wood or other insulating material, upon which the metallic straps and binding-posts are securely fastened. B B are the metallic straps on the front of the board, *b b b b* being holes through these straps and the wooden base. C C are metallic straps on the under or back side of the base A, to which are attached, in any suitable manner, the solid studs D. These studs are represented as attached by screws *c c c c*; but the fastening is immaterial, as they may be riveted in, or may be made of the same piece of metal as the

strap by "striking up" or by casting, or in any suitable way. These studs D project up through the apertures *b*, and are smaller than and concentric to the apertures, thus leaving a space, in which fit the sides of the contact-peg, Fig. 3. This peg has the metallic shank F, made hollow instead of solid, as is usually done, and is slotted in two or more places, so as to give a certain amount of spring to the sections thus made. It is, for convenience and safety, provided with the ordinary insulating-handle E. The arrangement of binding-posts is the same as in ordinary switch-boards.

I am aware that the binding-posts and the metallic straps are not new, and I do not claim them. I am also aware that contact-pegs with lateral slits have been used; but I do not know, and do not believe, that any of the form and for the use herein described have been used. All of the forms with which I am acquainted are made tapering, and are used by being pressed between the plates, which spring the points of the pegs inward, while mine are made and used in an entirely different manner.

What I claim as my invention is—

1. The hollow contact-peg, substantially as and for the purposes set forth.

2. The metallic stud or studs D, attached to one strap and projecting up to or through the other strap, substantially as and for the purposes set forth.

3. The combination of the contact-peg E, the metallic stud D, and the metallic straps B and C, constructed substantially as and for the purpose hereinbefore described and set forth.

WILLIAM D. SARGENT.

Witnesses:

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MORDECAI D. EVANS.