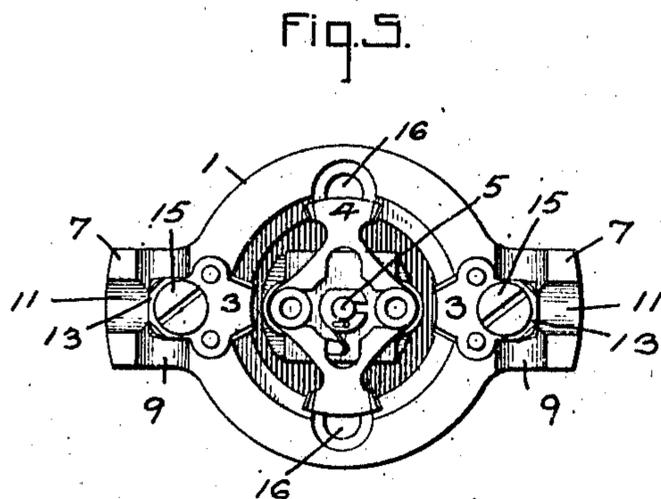
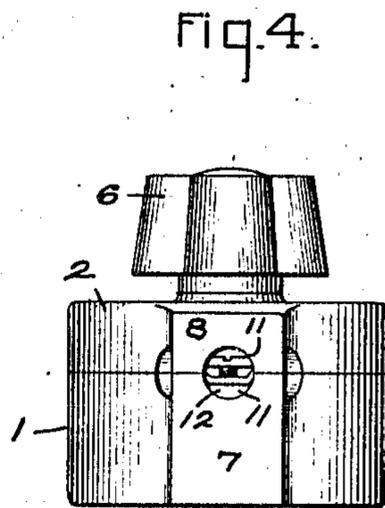
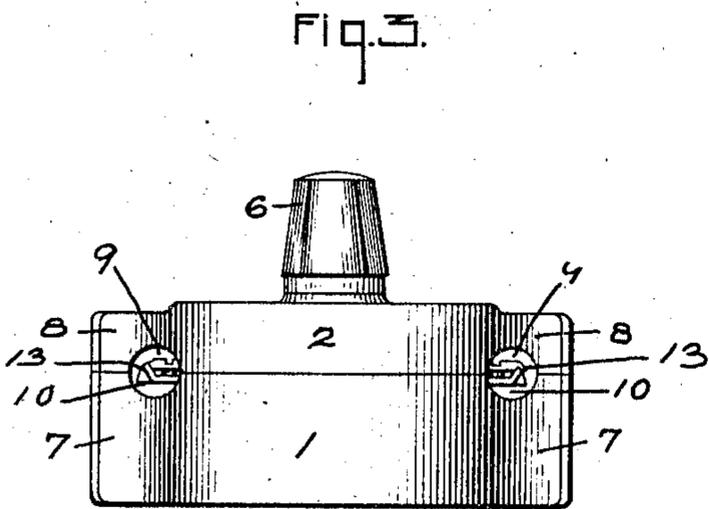
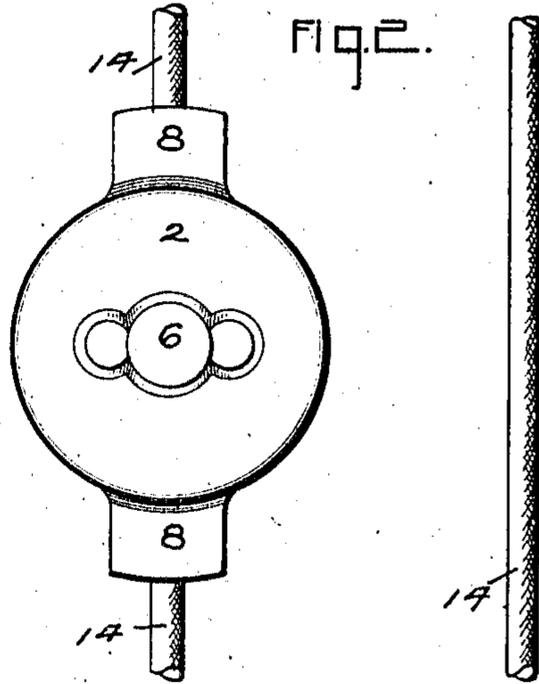
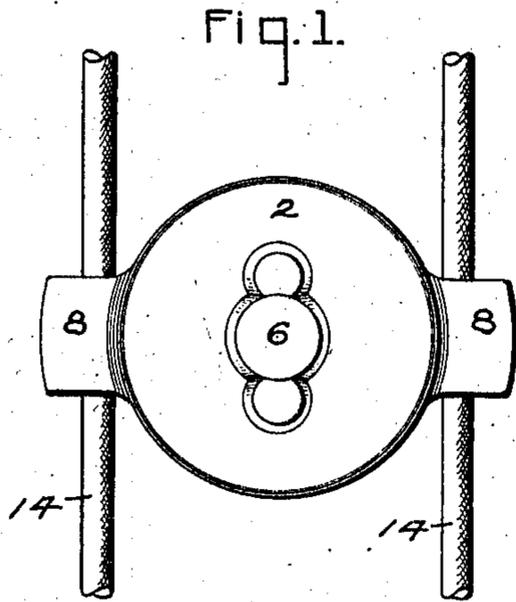


H. R. SARGENT.  
 COMBINED CLEAT AND SWITCH FOR HOUSE WIRING.  
 APPLICATION FILED SEPT. 19, 1908.

953,236.

Patented Mar. 29, 1910.



WITNESSES:  
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 ATTY.

# UNITED STATES PATENT OFFICE.

HOWARD R. SARGENT, OF SCHENECTADY, NEW YORK, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

COMBINED CLEAT AND SWITCH FOR HOUSE-WIRING.

953,236.

Specification of Letters Patent.

Patented Mar. 29, 1910.

Application filed September 19, 1908. Serial No. 453,750.

*To all whom it may concern:*

Be it known that I, HOWARD R. SARGENT, a citizen of the United States, residing at Schenectady, county of Schenectady, State of New York, have invented certain new and useful Improvements in Combined Cleats and Switches for House-Wiring, of which the following is a specification.

This invention relates to switches for electric circuits, and especially to snap switches used in house wiring.

In the so-called cleat system of wiring buildings for electric service, the insulated conductors are exposed, being run parallel a short distance apart and supported at intervals by transverse cleats of porcelain or other insulating material.

My invention aims to provide a simple snap switch which can be used in lieu of a cleat, being connected with the conductors in the same manner as a cleat and having the same general appearance, save for its enlargement to receive the contacts and switch blade. This switch can be connected either across the line or in series therewith, as may be necessary.

In the accompanying drawing, Figure 1 is a top plan view of my improved switch connected across the line; Fig. 2 is a similar view showing it in series with one side of the line; Fig. 3 is a side elevation; Fig. 4 is an end elevation, and Fig. 5 is a plan view with the handle and cover removed.

The casing comprises a base 1, made of insulating material, preferably molded porcelain, and a cover 2 made of insulating material or metal. In said casing are located the line terminal clips 3 and the rotatable switch-blade 4, a spindle 5 and handle 6 being provided for rotating said switch-blade, and any of the customary mechanisms for imparting a snap action to the blade may be employed.

The base and cover are preferably circular in plan view, but are provided, preferably at diametrically opposite points, with lugs 7, 8 which register with each other. In the meeting faces of the two sets of lugs are

made transverse grooves 9 which register and form openings 10 when the cover and base are assembled. These openings are parallel with each other in a plane parallel with the bottom of the switch casing. An additional groove 11 is made in each lug, extending in from the end of said lug until it intersects the groove 9. The grooves 11 in each pair of lugs register and form an opening 12, the two openings being in line on a diameter of the casing.

The line terminals 13 are located at the intersection of the grooves 9, 11, so that the wires 14 can be connected to the switch either by running them through the openings 10 and removing the insulation to permit them to be clamped by the binding screws 15, or by cutting one of the wires, baring its ends, and inserting them into the opening 12 for engagement with the binding screws. The first method connects the switch across the line, as shown in Fig. 1, while the second method puts it in series with one of the line conductors, as shown in Fig. 2.

The base contains holes 16 which are exposed when the cover is removed and receive screws for fastening the switch to a wall or other support, so that the switch serves also as a cleat to support the conductors. The switch is neat and compact and is easily applied to a system of cleat wiring, either new or old, being readily substituted for a cleat in an existing system.

What I claim as new and desire to secure by Letters Patent of the United States, is,—

1. A switch having on its casing diametrically opposite lugs containing transverse parallel openings for line conductors, and intersecting openings lengthwise of said lugs.

2. A switch having on its base and cover oppositely disposed lugs containing in their meeting faces transverse and longitudinal grooves which register and form openings to receive line conductors.

3. A switch having on its base and cover oppositely disposed lugs containing in their

meeting faces transverse and longitudinal grooves which register and form openings to receive line conductors, and switch contacts having binding screws located in line with said openings.

4. A switch having on its base and cover oppositely disposed lugs containing in their meeting faces intersecting transverse and longitudinal registering grooves, and switch

contacts having binding screws located at the intersection of said grooves.

In witness whereof, I have hereunto set my hand this 17th day of September, 1908.

HOWARD R. SARGENT.

Witnesses:

BENJAMIN B. HULL,  
MARGARET E. WOOLLEY.