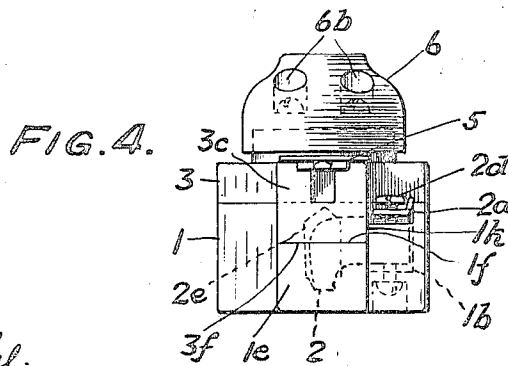
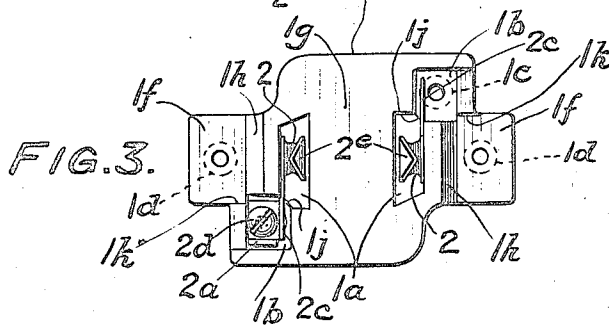
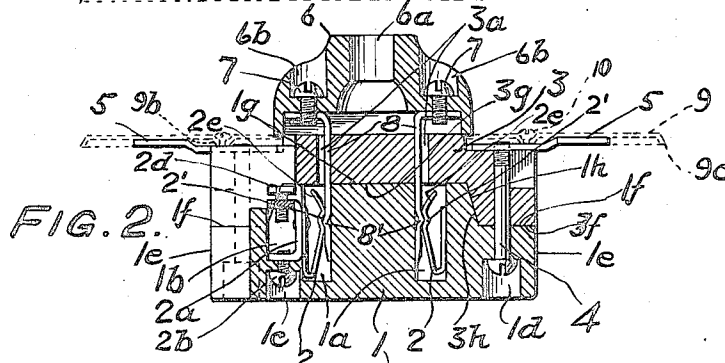
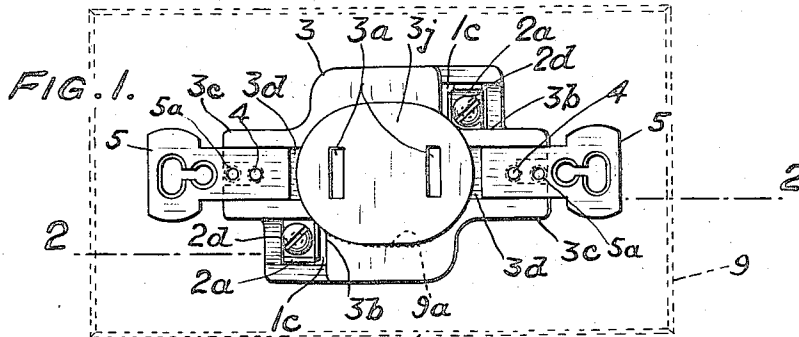


C. HORN.
PLUG SWITCH.

APPLICATION FILED AUG. 21, 1911.

1,042,228.

Patented Oct. 22, 1912.



WITNESSES:

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PLUG-SWITCH.

1,042,228.

Specification of Letters Patent.

Patented Oct. 22, 1912.

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To all whom it may concern:

Be it known that I, CHARLES HORN, a citizen of the United States, residing at Millbourne, Delaware county, Pennsylvania, have invented an Improved Plug-Switch, of which the following is a specification.

My invention is an improved plug switch characterized by a base having insulated chambers containing terminals with exposed parts for making connection with conductors, a top interlocked with the base and having insulating passages therethrough in line with the respective blades of said terminals, a plug having terminal blades adapted to be thrust through said passages into said chambers in contact with the blades of said terminals, and oppositely extending lugs so fixed to said cover that the several parts can be fixed in a wall receptacle thereby; the base and top having registering end extensions through which screws are passed into said lugs whereby such parts are fixed together in a compact and strong structure providing superior guiding and insulating means for the contacting blades.

In the accompanying drawings, Figure 1 is a top plan view of my improved switch with the plug removed; Fig. 2 is a sectional view taken on the line 2-2 of Fig. 1 with the plug in place; Fig. 3 is a top plan view of the base, and Fig. 4 is an end view of the switch with the plug in place.

The insulating base 1, preferably composed of porcelain, contains the insulated chambers 1^a, the sockets 1^b diagonally disposed with relation to the respective chambers, the sockets 1^c in line with the sockets 1^b, and the sockets 1^d in the end extensions 1^e. The surfaces 1^f of the end extensions are depressed below the surface 1^g in which the chambers 1^a terminate, these two surfaces being intersected by the inclined surfaces 1^h, and shoulders 1^k are thereby formed on opposite sides of the respective extensions, whereby the top, hereinafter described, is interlocked with the base.

Terminals 2 are disposed in the chambers 1^a and anchors 2^a forming parts thereof are fixed in the sockets 1^b by screws 2^b disposed in the sockets 1^c. The parts 2^c of the terminals pass through the slots 1^j connecting the chambers 1^a and 1^b. The anchors are provided with the screws 2^d for binding the conductors. The blades 2^e of the terminals

lie wholly within the insulating chambers 1^a between the opposite walls whereof such blades have a limited movement preventing their material distortion and maintaining them in correct operative position.

The insulating top 3, preferably composed of porcelain, contains the insulated passages 3^a having their adjacent faces in registration with the adjacent faces of the chambers 1^a with which they form continuous surfaces, reëntrant angles 3^b whereby the anchors 2^a and binding screws 2^d are rendered accessible, and end extensions 3^c which register with the extensions 1^e and contain the longitudinal channels 3^d. The top is provided with the outer, central oval projection 3ⁱ, and with the inner surfaces 3^f, 3^g and 3^h which fit the respective surfaces 1^f, 1^g and 1^h, the extensions 3^c bearing laterally against the shoulders 1^k, whereby the top is held against lateral and longitudinal movement.

Screws 4 are passed through the sockets 1^d, the ends 1^e and 3^c, and the retaining lugs 5 which are seated in the channels 3^d, these screws fixing the several parts firmly together in a solid construction by which the resilient terminal blades 2^e lying close to the adjacent surfaces of the two chambers 1^a are fully insulated.

The insulating plug body 6, suitably composed of fiber, contains the central aperture 6^a for the passage of conductors, the sockets 6^b for the binding screws 7, and the terminal blades 8, which are fixed to the body by the screws. These blades are disposed so that they can be thrust through the passages 3^a into the chambers 1^a so as to make contact with the blades which are wholly contained therein. The blades 8 are kept in proper positions by bearing on continuous surfaces of the passages and chambers and the resiliency of the blades 2^e maintaining the contact. The blades 2^e are provided with the sockets 2^f and the blades 8 are provided with the protuberances 8^g adapted to snap into such sockets.

A cover plate 9, preferably made of brass pressed to shape, has an oval central aperture 9^a which fits the oval projection 3ⁱ whereby the plate is properly positioned, the conical flanges 9^b pressed inwardly to form holes and bearings for the plate engaging screws 10 which pass through the holes 5^a

of the lugs 5 into the extensions 3^c, and the edge flanges 9^c turned inwardly to provide a bearing for the plate against the wall, while permitting the outer offset ends of the lugs 5 to lie against the same surface and within the plate.

Having described my invention, I claim:

1. A switch comprising a base having end extensions and containing insulated chambers, terminals having blades wholly within the respective chambers, a top having end extensions registering with the end extensions of said base and passages registering with said blades, said top engaging the part of said base separating said chambers, screws passing through said end extensions, and a plug having blades adapted to be thrust through said passages into said chambers to make contact therein with said blades first named.

2. A switch comprising a base having front surfaces disposed in different planes including depressed end planes, said base containing insulating chambers, a top having rear surfaces disposed in different planes respectively registering with said first named planes, said top having insulated passages registering with said chambers, terminals having blades wholly disposed in said chambers, and a plug having terminals adapted to be thrust through said passages into said chambers into contact with said terminals first named.

3. A switch comprising a base having end extensions of reduced thickness, said base

containing insulated chambers and terminals therein, a top having end extensions of increased thickness registering with said extensions first named, said top having insulated passages therethrough registering with said chambers, screws passing through said end extensions whereby said top and base are fixed together, and a plug having terminals adapted to be thrust through said passages into said chambers into engagement with said first named terminals.

4. A switch comprising a base having end extensions and containing insulating chambers, a top having end extensions registering with said extensions first named and an intermediate part registering with a part of said base separating said chambers, said top containing passages registering with said chambers, fastening lugs supported by the extensions of said top, screws extending through said end extensions and lugs, terminals provided with contacting parts disposed wholly in said chambers and having exposed binding screws, and a plug having terminals adapted to be thrust through said passages into said chambers into contact with said terminals first named.

In witness whereof I have hereunto set my name this 19 day of August, 1911, in the presence of the subscribing witnesses.

CHARLES HORN.

Witnesses:

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