S. BUCHSBAUM.

SOCKET SHELL.

APPLICATION FILED JULY 21, 1917.

1,319,642.

Patented Oct. 21, 1919.

Fig. 5.

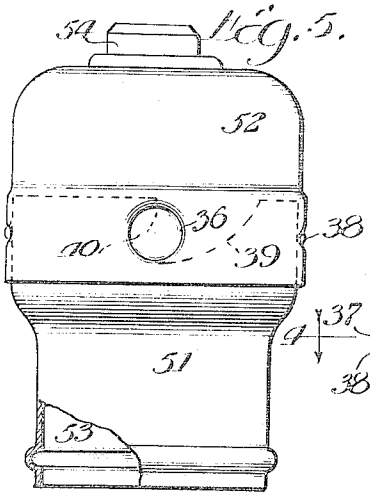


Fig. 1.

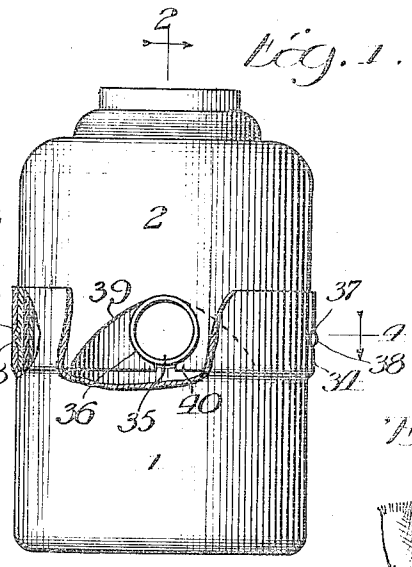


Fig. 2.

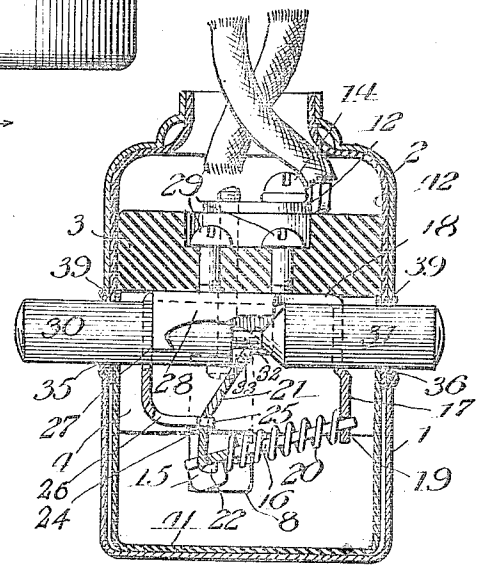


Fig. 3.

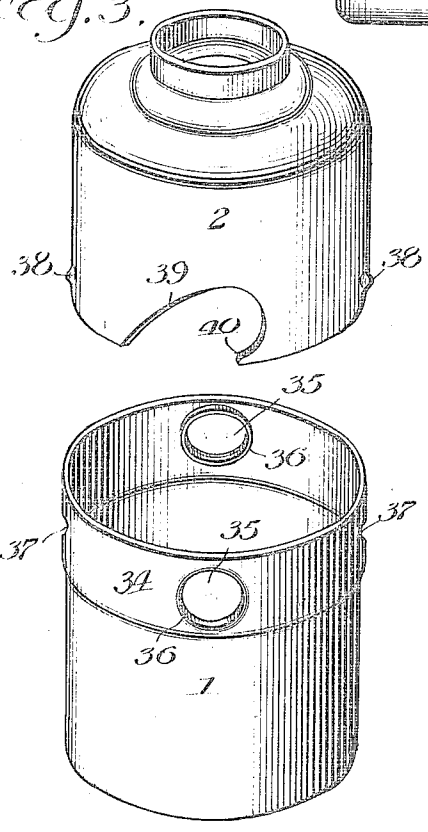
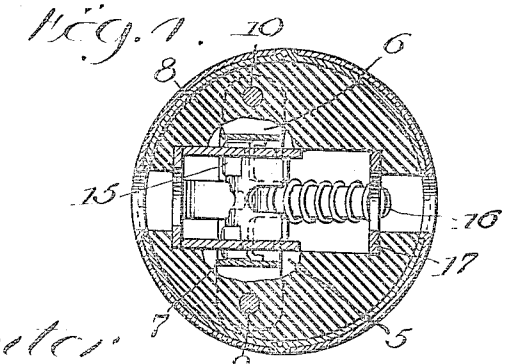


Fig. 4.



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UNITED STATES PATENT OFFICE.

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SOCKET-SHELL.

1,319,642. Specification of Letters Patent. Patented Oct. 21, 1919.

Application filed July 21, 1917. Serial No. 181,966.

To all whom it may concern:

Be it known that I, SAMUEL BUCHSBAUM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Socket-Shells, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to shells for electric switches and in one of its forms is more particularly for use in connection with a shell for what is commonly called a pendant switch, this being a switch which is fastened to the end of a flexible cord extending downwardly from some lamp or other translating device, the switch itself controlling the circuit through said lamp or translating device.

I will explain this particular form which my invention may take more in detail by referring to the accompanying drawing illustrating the same, in which

Figure 1 is a side elevation partially in section;

Fig. 2 is a section taken on line 2—2 of Fig. 1;

Fig. 3 is a perspective view of the shell showing the parts separated from each other;

Fig. 4 is a sectional view on line 4—4 of Fig. 1, and

Fig. 5 is a view similar to Fig. 3 of a modified form.

The shell of my invention is constructed in two parts, the base part 1 and the cap 2. This shell incloses a switch movement and in order to properly show the coöperation of the shell and its use, I will briefly explain the switch structure in connection with which it is used so far as the particular embodiment of the invention herein is concerned.

This switch movement comprises the insulating support 3 having a central recess 4 and having two side recesses 5 and 6 within which circuit controlling springs 7 and 8 are mounted, the same being held in place by screws 9, 10, which screws extend through the insulating piece 3 and hold the connecting terminal strips 12. These terminal strips carry connecting screws 14. The means for making and breaking the circuit between the springs 7 and 8 consist of a circuit controlling element 15 mounted at the extremity of a link 16 slidably and loosely carried on an extension 17 of a base piece 18. This extension 17 has the aperture 19 through which the link 16 is movable. A spring 20 normally forces the switch element away from the standard 17 and against the rocking link 21. Said link 21 through the agency of a centrally located aperture 24 is placed upon the stud 25, which stud forms part of the arm 26. This arm 26 is also part of the base piece 18. The rocking link 21 has the limits of its motion set by lugs 27, 27 forming part of upwardly projecting shelves 28, these shelves likewise being part of the base piece 18. Only one lug 27 is shown in Fig. 2 as the other lug 27 which occupies a corresponding position is shown broken away. Screws 29 hold the switch structure in position in the insulating base 3. Finger pieces 30 and 31 united by the stem 32 act upon the upper portion of the rocking link 21 to push it first toward one side and then toward the other. This stem 32 projects through the opening 33 in the link 21. These finger pieces 30 and 31 project outwardly of the shell, as clearly apparent from the illustration.

The specific details of the switch movement have no particular bearing on the invention claimed herein except to illustrate the coöperation of a switch movement with the cap and shell structure disclosed herein. For this reason a fuller description of the switch movement is not made herein, the same being fully described and claimed in my co-pending application Serial No. 181,967, filed July 21, 1917.

The base piece 1 of this shell has a slightly enlarged annular portion 34 and has holes 35 which are punched inwardly to form annular supporting rings 36. Through these holes 35 the finger pieces 30 and 31 project. The base portion 1 likewise has the holes 37 which coöperate with the projections 38 provided in the opposite sides of the cap piece 2. The cap piece likewise has cut-away portions 39, which cut-away portions are of a width equal to the diameter of the annular supporting rings 36. Thus when the switch structure is put in place in the base piece 1 the cap 2 can be snapped into position by inserting said cap 2 into the enlarged annular portion 34 with the lower

portion of the openings 39 alining with the annular rims 36. A slight rotative movement of the cap 2 relative to the base 1 causes the projections 38 finally to snap into position in the openings 37. The cap is thus securely held in place not only by the projections but also by the tendency of the overhanging part 40 of the cap 2 to hold the shell pieces together.

In order to separate the parts a slight relative rotative movement is given them whereby the walls of the recess 39 slide along the annular ridge of the rings 36, this movement at the same time releasing the projections 38 from the openings 37. The base portion 1 of the shell is likewise provided with insulating paper or similar material 41 and the cap portion 2 is provided with similar insulating material 42.

In Fig. 5 I show the shell as made of two parts 51 and 52 respectively, the part 52 representing the cup-shaped portion of the ordinary socket and the part 51 representing the lower portion of the shell of the socket having the open mouth 53. The back portion 52 of the socket shell has the inlet tube 54. It will also be seen that the parts 39 and 40 are reversed in this modified form.

From what has been thus described the nature of my invention will be readily clear to those skilled in the art. Having however thus described one form which my invention may take, what I claim as new and desire to secure by Letters Patent is:

1. A shell for electric switches of the character described comprising two separable shell portions, one of said portions being substantially cup-shaped and the other one of said shell portions having an inwardly extending projection and a recess, said first shell portion having an outward projection adapted to enter said recess and an inclined slot formed in its edge adapted to coöperate with said inwardly extending projection whereby when said shell portions are placed into juxtaposition and turned the inclined slot coöperates with said inward projection to aline said outward projection with said recess, the lower wall of said slot engaging the inwardly extending projection to assist in drawing the portions together, said projection adapted to guide a switch element extending through said inclined slot.

2. A shell for electric switches of the character described comprising two separable shell portions, one of said portions being substantially cup-shaped and the other one of said shell portions having an inwardly extending projection and a recess, said first shell portion having an outward projection adapted to enter said recess and an inclined slot adapted to coöperate with said inwardly extending projection whereby when said shell portions are placed into juxtaposition the inclined slot coöperates with said inward projection to aline said outward projection with said recess, said inwardly extending projection constituting substantially the periphery of an opening through said shell portion adapted to accommodate a switch control piece.

3. A shell for electric switches of the character described comprising two separable shell portions, one of said portions being substantially cup-shaped, and the other one of said shell portions having inwardly extending projections and recesses, the projections being adapted to guide a switch control piece, said first shell portion having rigid outwardly extending projections adapted to enter said recesses and inclined slots adapted to coöperate with said inwardly extending projections whereby when said shell portions are placed into juxtaposition and turned the inclined slots coöperate with said inward projections to draw the shell portions together and aline said outward projections with said recesses, said projections, recesses and slots being respectively each to each on opposite sides of said shell portions.

4. A shell for electric switches of the character described comprising two separable shell portions, one of said portions being substantially cup-shaped and the other one of said shell portions having inwardly extending projections and recesses, said first shell portion having outward projections adapted to enter said recesses and a plurality of inclined slots adapted to coöperate with said inwardly extending projections whereby when said shell portions are placed into justaposition the inclined slots coöperate with said inward projections to aline said outward projections with said recesses, said inwardly extending projections constituting substantially the periphery of openings through said shell and being adapted to accommodate a switch control finger piece.

5. A shell for electric switches comprising two telescoping members adapted to be turned relatively to one another, one member having hollow projections and the other member having inclined slots adapted to engage the projections to draw the members together as they are turned relatively to one another, said projections adapted to guide a switch element supported by said projections.

In witness whereof, I hereunto subscribe my name this 2nd day of July, A. D., 1917.

SAMUEL BUCHSBAUM.