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1,664,759

A. B. RYPINSKI

ELECTRIC FITTING AND THE LIKE

Filed May 13, 1921

Fig. 1,

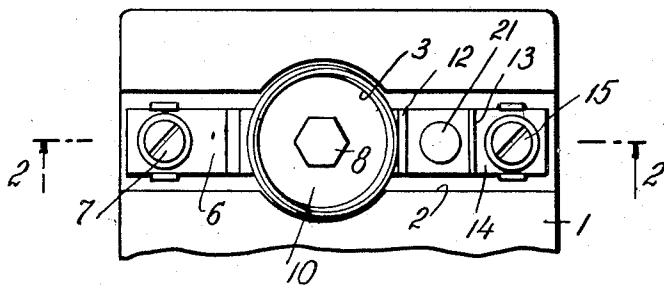


Fig. 2,

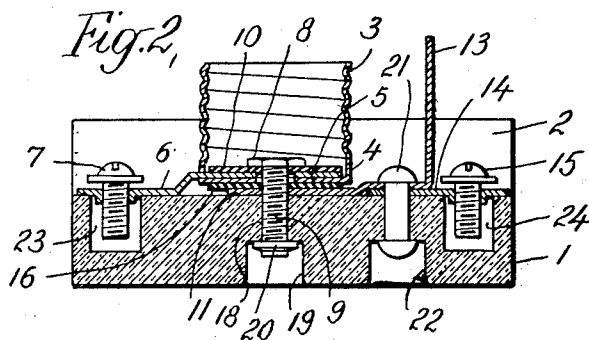


Fig. 3,

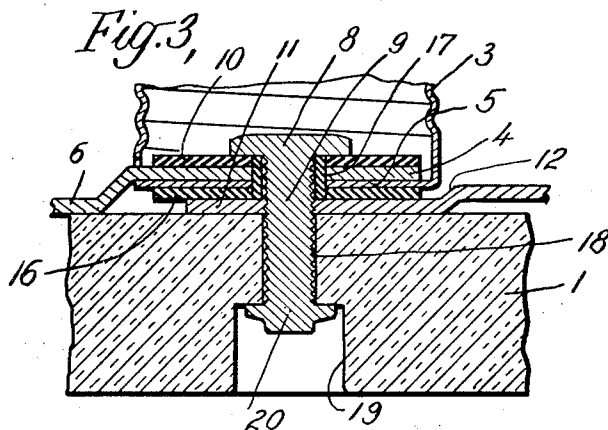
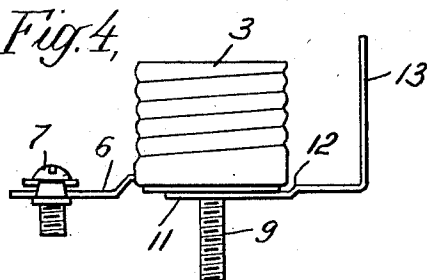


Fig. 4,



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UNITED STATES PATENT OFFICE.

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ELECTRIC FITTING AND THE LIKE.

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My invention aims to provide certain improvements in electric fittings and the like and particularly in the mounting of sockets on a base of porcelain or non-conducting material whereby certain economies are effected in the material and labor of assembling the parts and a more secure attachment is produced.

The accompanying drawings illustrate the invention as applied to a screw socket for fuses.

Fig. 1 is a plan of the assembled device;

Fig. 2 is a longitudinal section thereof on the line 2—2 of Fig. 1;

Fig. 3 is an enlargement of a portion of Fig. 2;

Fig. 4 is an elevation of an assembled unit used in making up the complete device.

Referring to the embodiment of the invention illustrated, the porcelain base upon which the copper or other conducting parts are mounted, is indicated at 1, with a suitably shaped groove 2 across its top face, the groove being widened at the center to carry the threaded socket 3 into which the fuse is to be screwed. The shell of the fuse makes contact through the socket 3 with a plate 4 resting on the base 5 of the socket and having an arm 6 extending out through the side socket with a binding screw 7 at its end. The center contact of the fuse bears on the head 8 of the screw 9 which passes down through the socket and fastens the parts to the porcelain plate 1. A washer 10 of non-conducting material is interposed between the plate 4 and the head of the screw so as to insulate the latter from the plate and socket. The body of the screw is threaded through a second plate 11 so as to make contact with the latter, this plate having an extension 12 with an up-turned end 13, the part 12 engaging a separate plate 14 which carries a binding screw 15; so that current is conveyed through the screw to the binding post and the usual wire. A non-conducting washer 16 is interposed between the base of the socket and the plate 11. A tubular washer 17 surrounds the portion of the screw between its head and the plate 11 for greater security against contact with the plate 4 and the base 5 of the socket.

The screw has initially a long stem which passes down through an opening 18 in the porcelain at the bottom of which is an

enlarged recess 19. The end of the screw is then upset to form a head 20 bearing firmly against the shoulder of the recess 19 and fastens the parts together. The parts 12 and 14 are similarly fastened together by a rivet 21 passing down through these parts and through a suitable hole in the porcelain and upset on its end to form a head in the recess 22 at the bottom of the plate. The binding screws 7 and 15 are threaded into the plates 6 and 14 respectively, the top of the porcelain base being formed with holes 23 and 24 to accommodate the ends of the screws.

The screw 9 may be upset on its end in various ways, preferably by the process described in Rypinski Patent No. 1,329,144, January 27th, 1920. By this method the end of the screw is softened and forced to a close fit notwithstanding the usual irregularities of the porcelain, and fastens the parts together firmly and quickly, and its threaded connection makes a good contact with the plate 11.

In assembling the parts a unit is first formed as shown in Fig. 4 comprising the socket and the terminal plates 6 and 12, with the necessary non-conducting washers, these parts being held fast together by the screw 9 passing through the part 12. It is then a simple matter to place this in the groove of the porcelain with the screw projecting below and to head up the end of the latter; the rivet 21 being headed at the same time or in a second similar operation. This facilitates the speedy assembling of the parts and is a valuable feature of the invention whether the screw be fastened by upsetting its end as described or in any other manner. The groove 2 in the porcelain block is open or unobstructed by any part of the block throughout the horizontal dimensions of the assembled unit of socket and attached terminals, so that the unit after assembly can be directly placed on the bottom of the groove in position for attachment to the block.

The part 13 is useful as a testing contact, but is not required in all fittings. Where this is not necessary, the plate 11 will extend integrally and occupy the position of the separate plate 14 and will carry at its end the binding screw 15; in which construction the rivet 21 is not needed and all the parts will be fastened together by the screw

9 alone and will be fastened to the base by the single operation of upsetting the head 20 on said screw.

Though I have described with great particularity of detail a construction embodying my invention yet it is not to be understood therefrom that the invention is restricted to the particular embodiment disclosed. Various modifications thereof in the arrangement and in the details of the parts may be made by those skilled in the art without departure from the invention.

What I claim is—

1. A fitting of the class described having 15 a socket and terminal pieces fastened thereto by a single screw, and a base of non-conducting material, said socket and terminal pieces being all mounted on top of said base and fastened thereon by the said screw.

2. A fitting of the class described having 20 a base and having a socket and terminal pieces fastened together and all mounted on the top of said base by the same means which fastens them together.

3. A unit for use in making fittings of the 25 class described, said unit comprising in combination a socket and terminal pieces and means for holding these parts together be-

fore assembling them on a base, in combination with a base having a groove which 30 is open throughout the horizontal dimensions of the assembled unit, said unit being mounted on the bottom of said groove.

4. A unit for use in making fittings of the class described, said unit comprising in combination a socket and terminal pieces and 35 a screw for holding these parts together before assembling them on a base, in combination with a base having a groove which is open throughout the horizontal dimensions 40 of the assembled unit, said unit being mounted on the bottom of said groove and fastened to the base by said screw.

5. A fitting of the class described comprising in combination a socket and terminal 45 pieces and a base having a groove which is open throughout the horizontal dimensions of the assembled socket and terminal pieces, said socket and terminal pieces being fastened together and being fastened to the 50 bottom of said groove by the same means which fastens them together.

In witness whereof, I have hereunto signed my name.

ALBERT B. RYPINSKI.