

ELECTRIC SWITCH HANDLE.  
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928,152.

Patented July 13, 1909.

Fig. 1.

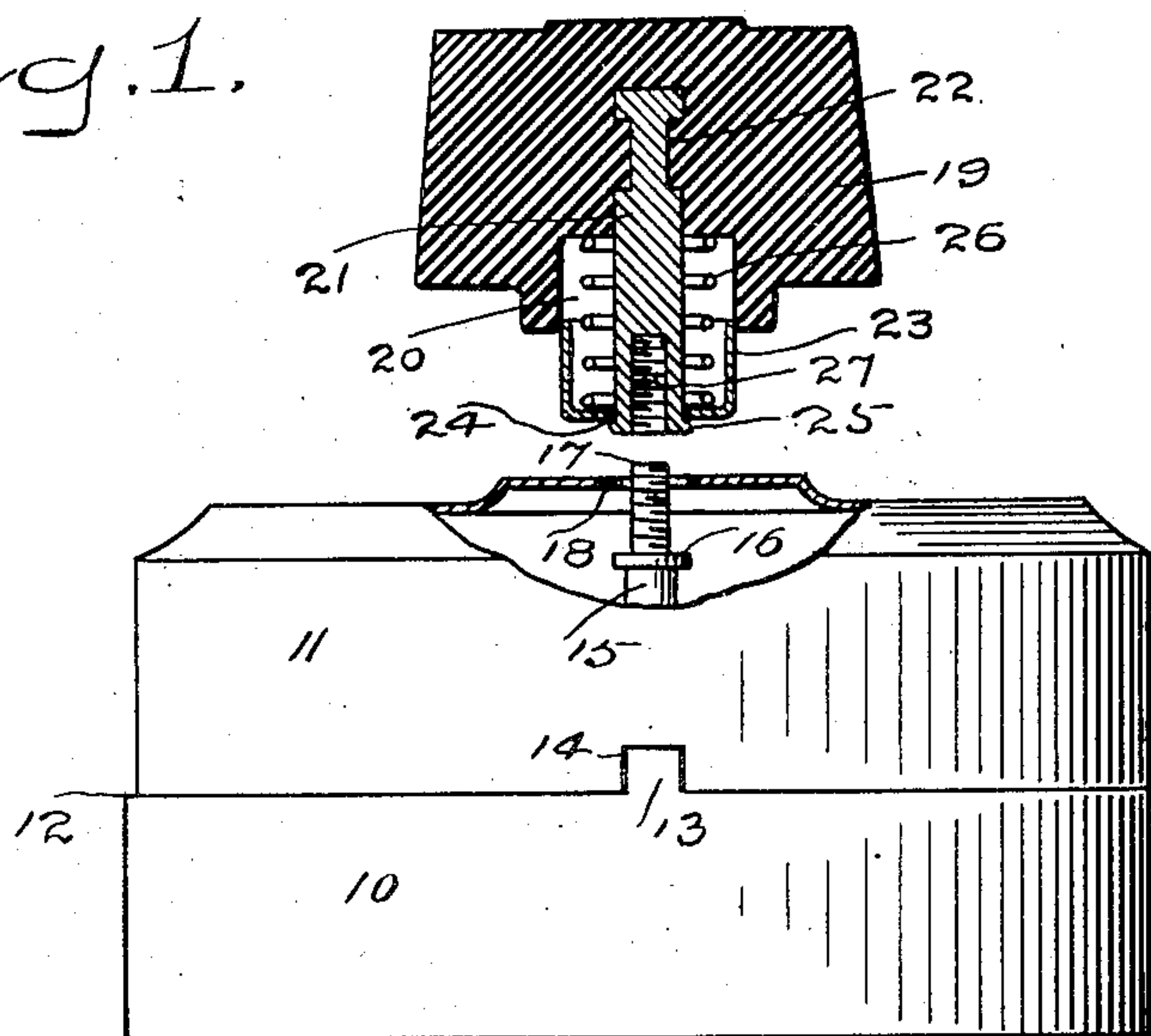
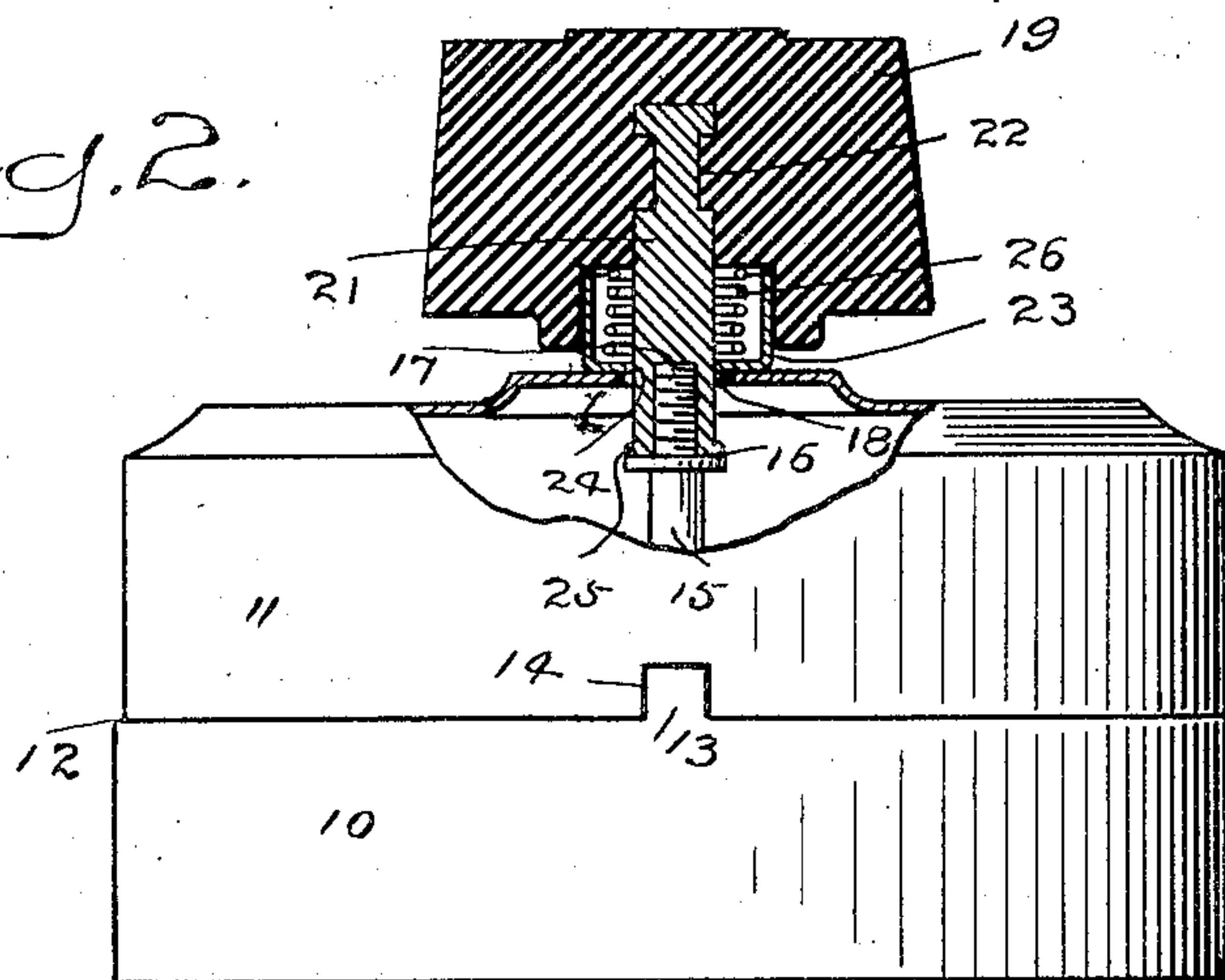


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

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## ELECTRIC-SWITCH HANDLE.

No. 928,152.

Specification of Letters Patent.

Patented July 13, 1909.

Application filed February 5, 1909. Serial No. 476,258.

*To all whom it may concern:*

Be it known that I, CLARENCE D. PLATT, a citizen of the United States, residing at Bridgeport, county of Fairfield, State of Connecticut, have invented a new and useful Electric-Switch Handle, of which the following is a specification.

This invention relates to operating handles for electric switches of any type in which the cover is held against the base by spring pressure and is especially adapted for indicating switches, so called, that is switches provided with means for indicating whether they are open or closed, and the invention has for its object to provide a simple and inexpensive handle so constructed that while the cover is held thereby with a spring pressure, the handle shall have no upward movement and the possible upward movement of the cover shall be so slight as to make it impossible to raise the cover and shift the same to a false position.

With these and other objects in view I have devised the novel switch handle which I will now describe, referring to the accompanying drawing forming a portion of this specification and using reference characters to indicate the several parts.

Figure 1 is a view partly in elevation and partly in section, showing the construction of my novel handle which is detached from the spindle; and Fig. 2 is a similar view showing the handle attached to the spindle as in use.

10 denotes the base of an electric switch which is ordinarily made of porcelain, and 11 a metallic cover for the operative parts of the switch (not shown as they form no portion of the present invention). The base is provided with a circumferential shoulder 12 upon which the edge of the cover rests and with a lug 13 which engages a notch 14 in the cover to lock the latter against rotary movement. The object in securing the covers in place by spring pressure is to provide for variation in the height of the covers and for variations in the bases.

15 denotes the spindle of the switch which is provided with a shoulder 16 and a threaded end 17. The upper end of the spindle registers with a central hole 18 in the cover and may or may not extend through said hole.

19 denotes the turn button of my novel handle which is provided in its under side with a recess 20 and to which a shank 21 is

rigidly secured concentrically with the recess. The turn button may be made of any suitable plastic material as hard rubber, so called, and the shank may be molded therein, one or more recesses 23 being formed in the shank into which the material of the turn button is pressed while plastic so as to lock the button securely upon the shank.

23 denotes an inverted cup which fits the recess loosely so as to slide freely therein and is provided with a central hole 24 through which the shank is passed, the outer end of the shank being then headed as at 25 to retain the cup thereon. A spring 26 bearing against the base of recess 20 and the base of the cup acts to normally force the cup outward, as in Fig. 1, the heading of the shank preventing the cup from being forced off therefrom and the cup being made deep enough so that its edge will remain in the recess, as in Fig. 1, when forced outward by the spring. The outer end of the shank is provided with a threaded hole 27 which receives and is engaged by the threaded upper end of the spindle. In assembling, the shank is turned down on the threaded end of the spindle, passing through hole 18 in the cover, until the end of the shank engages shoulder 16 on the spindle or the end of the spindle engages the end of the hole in the shank. This forces the cup into recess 20 in the turn button and compresses the spring, as shown in Fig. 2. Before attaching the handle to the spindle, the operator of course seats the cover properly on the base with lug 13 on the base in engagement with notch 14 in the cover. It will be seen therefore that in the assembled position the turn button will have no upward movement whatever and that although the cover is retained in position by a yielding instead of a positive pressure, the possible upward movement of the cover is so slight as to prevent disengagement of notch 14 from the lug on the base, this for the reason that should the cover be raised when the handle is in position, the edge of the cup will engage the bottom of the recess, leaving the lug on the base still engaged with the notch in the cover.

Having thus described my invention, I claim:—

1. A handle of the character described comprising a turn button having a recess in its under side, a shank molded therein concentric with the recess and having a threaded hole in its outer end, an inverted



cup carried by the shank and adapted to slide in the recess, and a spring bearing against the base of the recess and the base of the cup and acting to force the latter outward on the spindle.

2. A handle of the character described comprising a turn button having a recess in its under side, a shank molded therein concentric with the recess and having a threaded hole in its outer end, an inverted cup adapted to slide on the shank and a spring acting to force the cup outward, the outer end of the shank being headed to retain the cup thereon.

3. A handle of the character described

comprising a turn button having a shank 15 molded therein, a recess in its under side and concentric with the shank, an inverted cup carried by the shank and adapted to slide in the recess and a spring adapted to force the cup outward, substantially as described, for the purpose specified.

In testimony whereof I affix my signature, in presence of two witnesses.

CLARENCE D. PLATT.

Witnesses:

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