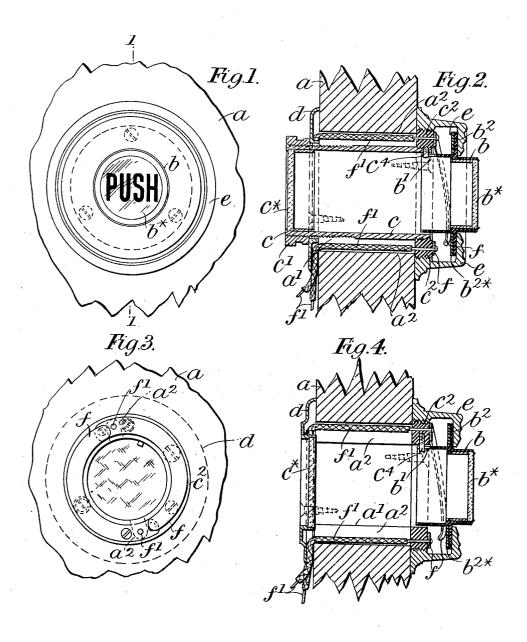
L. S. WILKS. BELL PUSH, PULL, &c. APPLICATION FILED MAY 1, 1905.

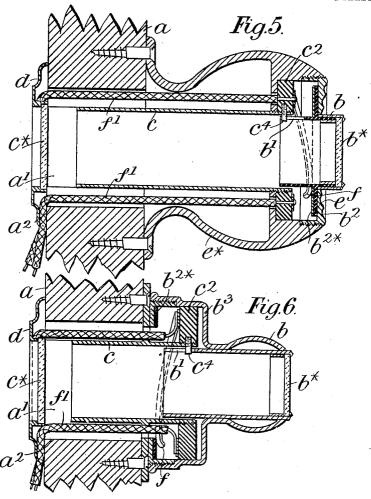
2 SHEETS-SHEET 1.



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2 SHEETS-SHEET 2.



Witnesses: P.H. Buckhens OCP well Inventor.

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his action

UNITED STATES PATENT OFFICE.

LAWRENCE SOLOMON WILKS, OF WHIPPS CROSS, ENGLAND.

BELL PUSH, PULL, &c.

No. 809,595.

Specification of Letters Patent.

Patented Jan. 9, 1906.

Application filed May 1, 1905. Serial No. 258,324.

To all whom it may concern:

Be it known that I, LAWRENCE SOLOMON WILKS, a subject of the King of Great Britain, residing at York House, Whipps Cross, 5 in the county of Essex, England, have invented new and useful Improvements in and Relating to Bell Pushes or Pulls, also Applicable to Door-Knobs and the Like, of which the following is a specification, reference being had to the drawings hereunto annexed and to the letters marked thereon.

This invention relates to improvements in and connected with bell pushes or pulls, also applicable to door-knobs and the like.

There is frequently a difficulty in finding a bell-push or the like, particularly when it is located upon the outside of a house; and the object of the present invention is to remove that difficulty. For this purpose the bell-push and the door or the like are constructed in such manner as to admit from the back of the passage of rays of light to the push or pull, and the latter is provided with a transparent or translucent front or panel which will consequently be illuminated, thus enabling the push or the like to be readily found

In the accompanying drawings, Figure 1 is a front elevation of part of a door or the like 30 having a bell-push applied thereto according to the present invention. Fig. 2 is a vertical section taken on the line 1 1 of Fig. 1. Fig. 3 is a similar view to Fig. 1, but with the cap removed. Fig. 4 is a vertical section also taken on the line 1 1 of Fig. 1, illustrating a slight modification. Fig. 5 is a vertical section also taken on the line 1 1 of Fig. 1, illustrating the application of a bell-push to a door-knob. Fig. 6 is a similar view illustrating the application of the invention to a bell-pull

In the several figures like parts are indicated by similar letters of reference.

Referring to Figs. 1 to 3, a represents a 45 portion of a door, or it might be a wall or partition, and b represents the bell-push. The door a is pierced with a hole or passage a' therethrough, and fitting said passage and at each end extending beyond the same is a 50 tube c, which at its inner end is exteriorly threaded and held in place by a nut c', which screws thereon and abuts against a rose d. The front end of the tube c is also exteriorly threaded, and a threaded insulating-ring c²

screws thereon and abuts against the door a 55 and is fixed in position by screws screwing into said door, and the insulating-ring c^2 is also exteriorly threaded, and an apertured cap e screws upon said exterior thread and controls the push b, as hereinafter described. 60 The inner end of the tube c is fitted with a disk c^+ , of glass, preferably ground glass, to prevent a view of the interior being obtained, or it might be a disk of other transparent or translucent material or a lens, and the front 65 end of the push b is similarly fitted with a disk b^+ , upon which is painted, engraved, or otherwise marked the word "Push," and thus any light upon the opposite side of the door a will illuminate the disk or lens b^+ . The 70 push b is tubular and extends into the tube c, and the tube of the push is formed with a slot b', and the tube c is provided with a stud c^4 , which engages said slot and prevents the push turning, so that the word "Push" upon 75 the disk b^+ will always be retained in correct reading position. The tubular push b is provided with an annular flange b2, which is engaged by the cap e, which incloses the working parts and limits the outward movement 80 of the push b. Upon the inner face of the flange b^2 is fixed an insulating-disk b^{2+} , against which the ends of the usual springcontacts f bear, so that no current passes to the push. The inner ends of the spring-con- 85 tact f are fixed to the insulating-ring c^2 , and the usual conductors f' are connected therewith in the well-known manner, and said conductors pass through grooves a^2 , formed in the wall of the hole or passage a' through 90 the door, and come out beneath the rose d and are connected with an electric battery, in the circuit of which is placed an electric bell, as will be readily understood. The interior of the tube c and push b may be silvered or 95 coated with white enamel or otherwise treated in order to reflect the rays of light passing through the same, and thus improve the illumination of the disk b^+ .

It will be obvious that any other suitable 100 form of contacts than those f may be employed, if desired.

In the example given at Fig. 4 the tube c, and consequently the nut c', are dispensed with and the disk of glass c^+ or the like is 105 mounted in the rose d; but in other respects the device is identical with that hereinbefore described with respect to Figs. 1 to 3.

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In the example given at Fig. 5 the invention is shown applied to a door-knob. this case the tube c is prolonged in a forward direction and carries the insulating-ring c2, as 5 in the arrangement shown and described with respect to Figs. 1 to 3; but instead of the cap e a hollow knob e^+ is fixed with the door a, and the cap e instead of screwing onto the insulating-ring c^2 screws into the front end of the knob e^+ , while the tube c at its rear end terminates short of the glass disk c^+ , which latter is carried by the rose d, as shown and described with respect to Fig. 4; but in other details of construction the device is 15 similar to those previously described.

In the example given at Fig. 6 the invention is shown applied to a pull instead of a In this case a tubular handle b is employed, having in the front end thereof a glass disk or lens b^+ , bearing the word "Pull," and the inner end of the handle or pull is formed as a box b^3 , which slides upon the insulatingring c^2 , while the spring-contacts f are carried by the inner side of said insulating-ring and 25 the insulating-washer b^{2+} is carried by the inner end of the box b^3 , and thus a pull upon the handle or pull b makes the required contact. In other respects the device is substantially the same as that shown and described

30 with respect to Fig. 5.

In all cases it will be understood that by employing a lens in place of the disk of glass c^+ the rays of light within a room or building may be condensed and powerfully projected upon the disk b^+ , and it will be obvious that other details of construction of the device may be considerably varied, provided that the essence of the invention-namely, provision for the passage of light to the disk \hat{b}^+ -40 be preserved.

By the means hereinbefore described the difficulty hitherto met with of finding a bell push or pull or a door-knob in the dark will be obviated, and the position thereof will be

45 plainly indicated.

Having thus described my invention, what I claim, and desire to secure by Letters Pat-

1. In means for illuminating bell-actuating 50 devices, a hole or way through the object to which the device is affixed, a tubular movable hand-operated device in alinement with said hole at the front thereof, a disk of a material which will allow the passage of light at 55 the front end of said tubular device, a similar disk at the near end of said hole and means actuated by said tubular device for sounding a bell, substantially as described.

2. In means for illuminating bell-actuat-60 ing devices, a hole or way through the object to which the device is affixed, a tubular movable hand-operated device in alinement with said hole at the front thereof, a disk of a mathe front end of said tubular device, a similar 65 disk at the rear end of said hole, electric contacts adapted to be brought into engagement by the movement of the tubular device and means for connecting the leads of an electricbell system with said contacts, substantially 70 as described.

3. In means for illuminating bell-actuating devices, a hole or way through the object to which the device is affixed, a tubular movable hand-operated device in alinement with 75 said hole at the front thereof, a disk of a material which will allow the passage of light in the front end of said tubular device, a similar disk at the rear end of the hole or way, an insulating-ring carrying electrical contact de- 80 vices adapted to be brought into engagement by the movement of the tubular device, means for connecting the leads of an electricbell system with said contacts, a screwthread upon the exterior of the insulating- 85 ring, a flange upon the tubular device, an insulating-washer upon the inner face of said flange and means for inclosing said parts while exposing the transparent or translucent disk of the tubular device, substantially 90

4. In means for illuminating bell-actuating devices, a hole or way through the object to which the device is affixed, a tubular pushpiece in alinement with said hole at the front 95 thereof, a disk of a material which will allow the passage of light in the front end of said push-piece, a similar disk at the rear end of said hole or way, an insulating-ring fixed with said object and carrying electrical con- 100 tact devices adapted to be brought into engagement by the movement of the pushpiece, means for connecting the leads of an electric-bell system with said contacts, a screw-thread upon the exterior of the insu- 105 lating-ring, a flange upon the tubular push-piece, an insulating-washer upon the in-ner face of said flange and a perforated cap fitting upon the push-piece and screwing upon the insulating-ring, substantially as de- 110

scribed.

5. In means for illuminating bell-actuating devices, a hole or way through the object to which the device is affixed, a length of tube passing through said hole, a tubular 115 push-piece working in the front end of said tube, a disk of a material which will allow the passage of light in the front end of said pushpiece, a similar disk at the rear end of said tube, an insulating-ring screwing into the 120 front end of the tube and carrying electrical contact devices adapted to be brought into engagement by the movement of the pushpiece, means for connecting the leads of an electric-bell system with said contacts, a 125 screw-thread upon the exterior of the insulating-ring, a flange upon the tubular pushterial which will allow the passage of light at | piece, an insulating-washer upon the in-

ner face of said flange and a perforated cap fitting upon the push-piece and screwing upon the insulating-ring, substantially as described.

6. In means for illuminating bell-actuating devices, a tubular push-piece arranged within one end of a hole or way through the object to which the device is attached, said

push and opposite end of said hole or way each being furnished with a disk of material 10 which will allow of the passage of light, substantially as described.

LAWRENCE SOLOMON WILKS.

Witnesses:

GEO. G. NAUGHANS, Walter J. Skerten.