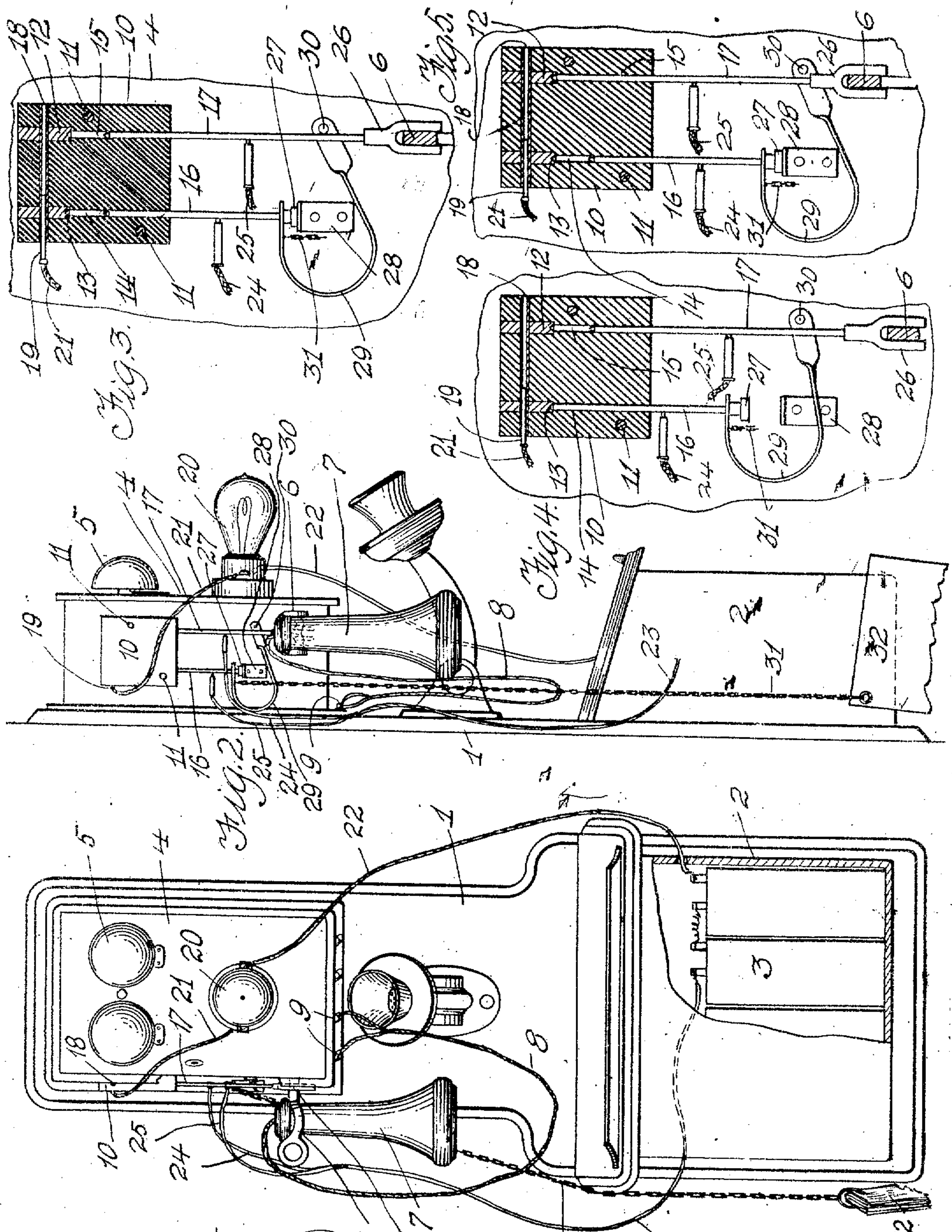


S. M. O. GRANT.  
ELECTRIC LIGHT SWITCH FOR TELEPHONE BOOTHS.  
APPLICATION FILED MAY 5, 1910.

987,357.

Patented Mar. 21, 1911.



WITNESSES

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# UNITED STATES PATENT OFFICE.

SAMUEL M. O. GRANT, OF PITTSBURG, PENNSYLVANIA.

ELECTRIC-LIGHT SWITCH FOR TELEPHONE-BOOTHES.

987,357.

Specification of Letters Patent.

Patented Mar. 21, 1911.

Application filed May 5, 1910. Serial No. 559,437.

To all whom it may concern:

Be it known that I, SAMUEL M. O. GRANT, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Electric-Light Switches for Telephone-Booths, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a lighting device for telephone booths, and my invention aims to arrange a candescent lamp in a telephone booth or upon the telephone, whereby when the booth or telephone are being used a light can be maintained that will facilitate the user of the booth or telephone in examining the telephone directory and transcribing any messages received over the telephone.

The primary object of my invention is to provide a device of the above type that can be either operated when the telephone directory is being used or when the telephone is being used, the device including two circuits that can be independently used as occasion may require.

To attain the above object, I have devised a novel switch which is compact, simple in construction, and inexpensive to manufacture, the switch being located upon the telephone to be automatically actuated when the telephone directory or the telephone receiver are brought into use. In connection with the switch there is an incandescent lamp and a suitable source of electrical energy, the lamp being of sufficient candle power to insure a light in proximity to the telephone, whether the same is located in a booth, dark alcove, or room.

My invention will be better understood after being specifically described, and reference will now be had to the drawing forming part of this specification, wherein there is illustrated a preferred embodiment of the invention, but it is to be understood that the structural elements thereof can be varied or changed, as to the size, shape and manner of assemblage without departing from the scope of the invention.

In the drawings: Figure 1 is a front elevation of a telephone provided with the lighting device. Fig. 2 is a side elevation of the same. Fig. 3 is an enlarged vertical sectional view of the switch showing the

same in an open position. Fig. 4 is a similar view showing the directory switch rod in a closed position and the receiver switch rod in an open position, and Fig. 5 is a similar view showing the directory switch rod in an open position and the receiver switch rod in a closed position.

In the accompanying drawings the reference numeral 1 denotes the back-board of a wall telephone, the lower end of the board being enlarged to support a battery box 2 containing battery cells or another source of electrical energy.

4 denotes a call box mounted upon the upper part of the board 1, this box having—*inter alia*—collapsible bells 5 and a spring actuated receiver arm 6 adapted to support a receiver 7, which is connected by a wire 8 to the binding post 9 of the call box 4.

10 denotes a switch block made of an insulating material, as fiber and this block is suitably secured to the side of the box 4 adjacent to the upper end thereof and directly above the receiver arm 6, preferably by screws 11. In the upper end of the block 10 are arranged contact pieces 12 having the lower edges thereof provided with sockets 13. In communication with these sockets are vertical openings 14 and 15 and extending into said openings are a directory switch rod 16 and a receiver switch rod 17, said rods having the upper ends thereof tapered to positively engage in the sockets 13. Extending through the metallic contact pieces 12 is a metallic tube 18, the ends of said tube terminating at the vertical edges of the block 10, whereby a metallic plug 19 can be inserted in either end of said tube.

20 denotes an incandescent lamp mounted upon the front side of the box 4 and this lamp is connected by a wire 21 to the plug 19 and by a wire 22 to one of the cells 3 within the battery box 2. The cells are connected in series and one of said cells is connected by a wire 23 having branches 24 and 25 suitably connected to the rods 16 and 17 respectively.

26 denotes a bifurcated head carried by the lower end of the rod 17 and embracing the receiver arm 6.

27 denotes a head carried by the lower end of the rod 16 and adapted to rest upon a bracket 28 secured to the side of the battery box 4. Attached to the upper end of the head 27 is a resilient arm or curved



spring 29 having the opposite end thereof connected to the side of the battery box 2, as at 30. Attached to the arm 29 adjacent to the head 27 is a chain or cord 31 adapted to support the telephone directory or other book 32.

The weight of the book 32 and the receiver 7 are adapted to normally retain the switch rods 16 and 17 in a lowered position, as shown in Fig. 3, and should the book 32 be raised the tension of the resilient arm 29 is released and the switch rod 16 is immediately elevated, completing an electrical circuit which is as follows: from the battery by the wire 22 to the lamp 20, by the wire 21 to the plug 19, by the tube 18 and the contact piece 12 to the rod 16, by the branch 24 of the wire 23 to the battery, thus completing a circuit through the lamp which furnishes sufficient light in the vicinity of the telephone.

Should the receiver 7 be removed from the arm 6, the arm immediately raises the rod 17 in the switch block 10 and an electrical circuit is completed, which is as follows: from the battery 2 by the wire 22 to the lamp 20, by the wire 21 to the plug 19, by the tube 18 and contact piece 12 to the rod 17, by the branch 25 of the wire 23 to the battery, thus

completing another circuit through the lamp 20.

From the foregoing it will be observed that I have devised a novel switch for controlling the operation of an electric lamp and it is in connection with this lamp that I do not care to confine my invention to its location or the location of the source of electrical energy used in connection with the same.

What I claim, is:

A switch comprising a support, contact pieces arranged therein and each provided with a socket, a metallic tube extending through said contact pieces, a contact plug seated in said metallic tube and connected with a source of electrical energy thereby connecting said contact pieces to said source, and a pair of spring controlled rods slidably mounted in said support and connected with the source of electrical energy and adapted to engage in the sockets of said contact pieces thereby completing the circuit.

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

SAMUEL M. O. GRANT.

Witnesses:

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