

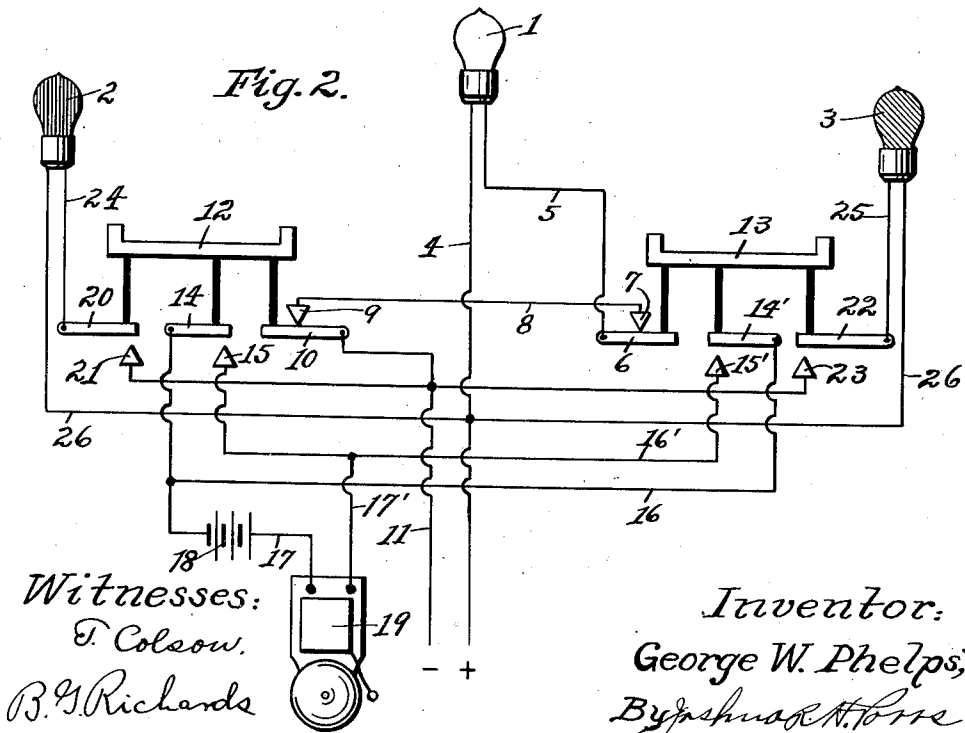
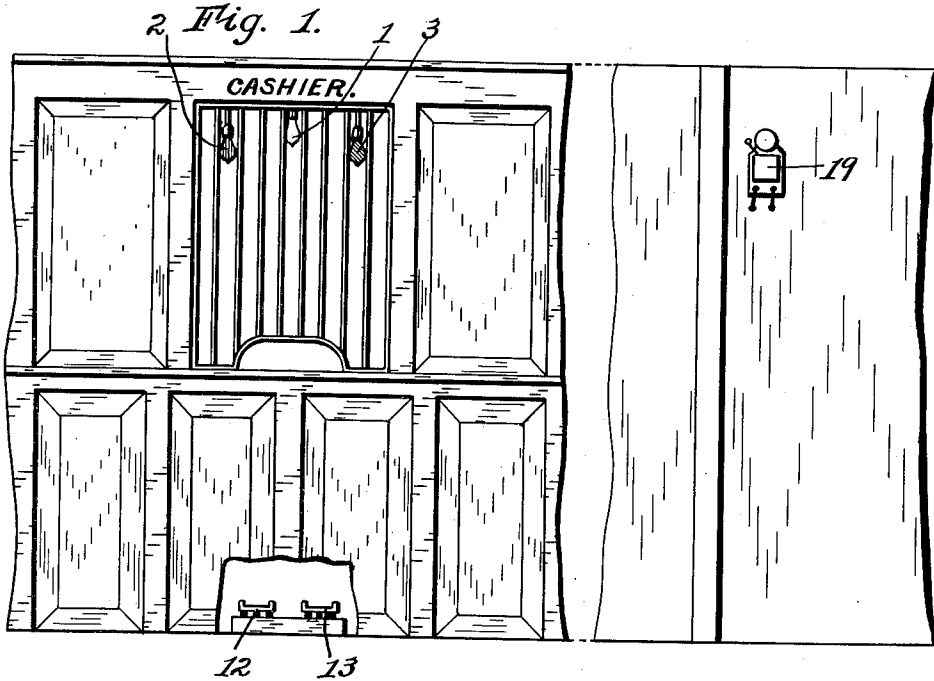
G. W. PHELPS.

SIGNAL SYSTEM.

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1,093,801.

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UNITED STATES PATENT OFFICE.

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Specification of Letters Patent.

Patented Apr. 21, 1914.

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To all whom it may concern:

Be it known that I, GEORGE W. PHELPS, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Signal Systems, of which the following is a specification.

My invention relates to signal systems especially adapted for use by bank cashiers, tellers and the like and has for its object the provision of a signal system of this character which is of simple construction and efficient in operation.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawing forming a part of this specification, and in which—

Figure 1 is a face view of a bank cashier's window equipped with a signal system embodying my invention, and Fig. 2, a diagrammatic view showing the electric circuits and switches employed in the system.

The preferred form of construction as illustrated in the drawing comprises a white electric light bulb 1, a red electric light bulb 2 and a green electric light bulb 3 suspended over the window of the cage of the cashier, teller or other operator. Light 1 is connected with one of the main electric service lines 4 and also with a branch line 5 leading to a depressible switch lever 6 which coöperates with a stationary contact 7. Contact 7 is connected by a bridge wire 8 with a similar contact 9 coöperating with the depressible switch lever 10 connected with the other main electric service wire 11. Depressible levers or foot pedals 12 and 13 are arranged in the bottom of the cage in convenient position to be stepped upon when the operator is at his window. By this arrangement it will be observed that upon depression of either of the pedals 12 or 13 the circuit through light bulb 1 will be broken and the light extinguished.

Depressible switch levers 14 and 14' are arranged under each of the pedals 12 and 13 and coöperate with stationary contacts 15 and 15' respectively. The switches 14 and 14' and contacts 15 and 15' are connected together by means of wires 16 and 16' respectively as shown in Fig. 2. Wires 17 and 17' serve to connect a battery 18 and a bell 19 in parallel with switches 14 and 14' and their

corresponding contacts 15 and 15' as shown in Fig. 2. The bell 19 is located at a distant station which may be a guard room or similar room. By this arrangement it will be observed that when either of the pedals 12 or 13 is depressed the circuit through bell 19 will be closed and said bell operated to give an alarm at the distant station. Located under pedal 12 is a depressible switch lever 20 coöperating with a stationary contact 21, and located under pedal 13 is a depressible switch lever 22 and a coöperating stationary contact 23. Switch lever 20 is connected by a wire 24 with red light 2 and switch lever 22 is connected with a wire 25 with green light 3, said lights 2 and 3 being themselves connected by means of a wire 26. By this arrangement it will be observed that when pedal 12 is depressed, white light 1 will be extinguished, bell 19 will be sounded and red light 2 will be lighted, and that when pedal 13 is depressed, white light 1 will be extinguished, bell 19 will be sounded and green light 3 will be lighted. Thus in case of imminent danger or of violence as from a hold-up man or the like, the cashier, teller or person threatened may step upon the pedal 12 and thus notify others in the room with him of his danger and also notify others at a distant station of the danger. When the danger is less imminent the pedal 13 may be operated to light the green light 3 and also sound alarm bell 19. Thus the operator is provided with means for communicating his danger to others and also with means for communicating the nature and imminence of the danger threatened.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish, to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. An electrical device comprising a main circuit; a normally closed switch and a signaling device connected in series in said main circuit; a branch circuit connected with said main circuit; a normally open switch and a signaling device connected in series in said

branch circuit; an independent circuit; a normally open switch and a signaling device connected in series in said independent circuit, each of said signaling devices being
5 provided with a distinguishing feature from each of the other of said signaling devices; a foot operable member; a connection connecting each of said switches with said member, whereby downward movement of said
10 member renders the signaling device in said main circuit inoperative and causes an operation of the signaling devices in said branch circuit and said independent circuit, substantially as described.

15 2. An electrical device comprising a main circuit; two normally closed switches and a signaling device connected in series in said main circuit; two branch circuits connected in parallel with said main circuit; a normally open switch and a signaling device
20 connected in series in each branch circuit; an independent circuit having two normally open switches and a signaling device therein, each switch being connected in series with
25 the signaling device in said circuit, each of all of said signaling devices having a dis-

tinguishing feature distinguishing it from each of the other signaling devices; two manually operative connections, each connecting one of the switches in said last mentioned circuit, the switch in one of said branch circuits and one of the switches in said main circuit, whereby operation of one of said connections renders the signaling device in said main circuit inoperative, and
35 causes the operation of the signaling device in the corresponding branch circuit and the signaling device in said independent circuit, and operation of the other of said connections renders the signaling device in said
40 main circuit inoperative and causes operation of the signaling device in the corresponding branch circuit and the operation of the signaling device in said independent circuit, substantially as described. 45

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE W. PHELPS.

Witnesses:

JOSHUA R. H. POTTS,
HELEN F. LILLIS.