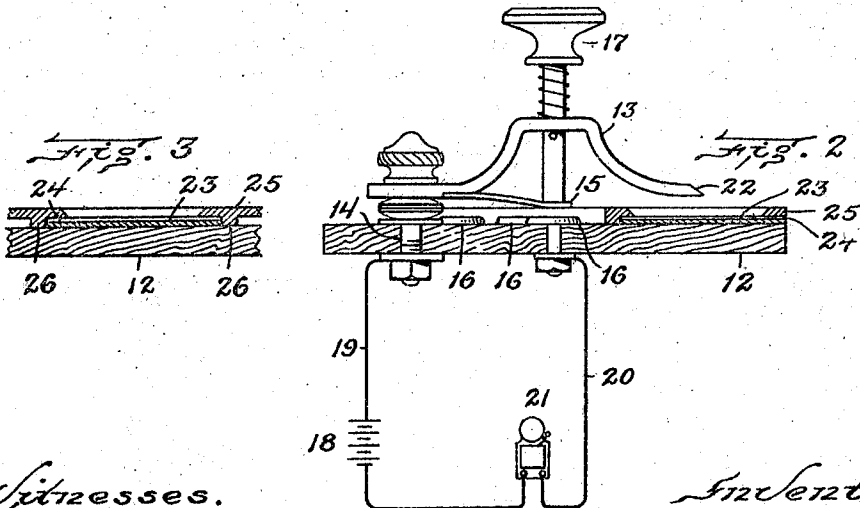
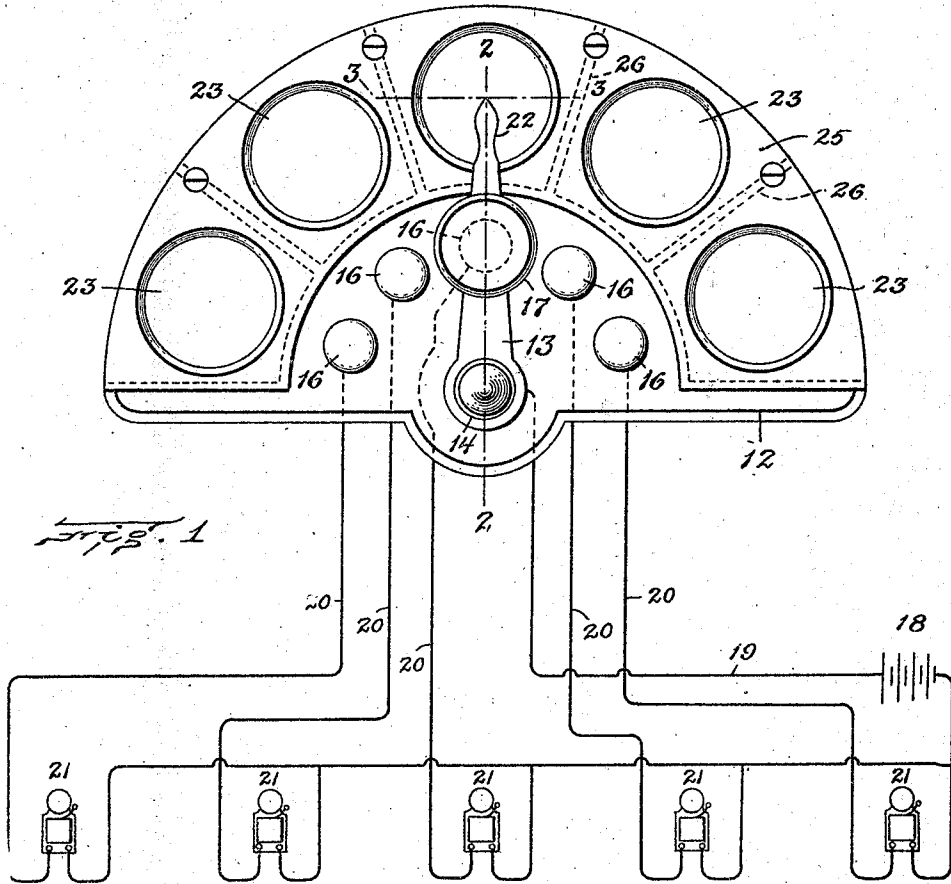


J. B. COE.
SELECTIVE ELECTRIC SIGNALING APPARATUS.
APPLICATION FILED SEPT. 25, 1908.

944,665.

Patented Dec. 28, 1909.



Witnesses.
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UNITED STATES PATENT OFFICE.

JOHN B. COE, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-FOURTH TO FRANK B. LENZI, OF BOSTON, MASSACHUSETTS.

SELECTIVE ELECTRIC SIGNALING APPARATUS.

944,665.

Specification of Letters Patent.

Patented Dec. 28, 1909.

Application filed September 25, 1908. Serial No. 454,761.

To all whom it may concern:

Be it known that I, JOHN B. COE, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Selective Electric Signaling Apparatus, of which the following is a specification.

This invention has for its object to provide a selective signaling apparatus which may be portable and includes a base or support and means mounted thereon for closing any desired number of electric circuits to actuate call bells or other electrically operated devices included in said circuits, a single movable signal-closing device or push piece being adapted to close either of the circuits so that in a signaling system which includes a plurality of independent instruments, a single push piece or circuit closer may be used selectively to close the circuit through either of the instruments.

The invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification,—Figure 1 represents a plan view of a signaling apparatus embodying my invention. Fig. 2 represents a section on line 2—2 of Fig. 1. Fig. 3 represents a section on line 3—3 of Fig. 1.

The same reference characters indicate the same parts in all of the figures.

In the drawings, 12 represents a base or support which may be portable and adapted to be secured on a desk or table, either loosely or detachably connected thereto by screws or otherwise.

13 represents a carrier which is so connected with the base 12 as to move in a predetermined path relatively to the same, the carrier being preferably adapted to oscillate upon a fixed stud 14 secured to the base.

15 represents a circuit terminal attached to the carrier and movable therewith in a predetermined path, the terminal being yieldingly held in a retracted position out of contact with the fixed circuit terminals, hereinafter described. As here shown, the terminal 15 is a resilient strip or spring of any suitable metal which is a good conductor of electricity, one end of the terminal being affixed to the carrier 13, and the other free to move toward and from the base 12, and normally retracted from the base by its own resilience.

16, 16 represent a series of fixed circuit terminals attached to the base 12, the series coinciding with the path in which the movable terminal 15 is adapted to travel, the arrangement being such that the movable terminal may be brought into coincidence with either of the fixed terminals by a movement of the carrier 13, and then projected from its normal retracted position into contact with the fixed terminal with which it coincides. The movable terminal may be projected by means of a push piece 17 slidingly mounted on the carrier 13, the said push piece preferably having at its outer end a head or button of insulating material, and bearing at its inner end on the movable terminal 15.

18 represents a battery or other source of electricity, one pole of which is connected by a circuit wire 19 through the stud 14, or otherwise, with the movable terminal 15. Each of the fixed terminals 16 is connected by an individual circuit wire 20 with the opposite pole of the battery, each circuit wire 20 including an electric signaling instrument 21 of any suitable character, the said battery circuit wires and terminals constituting a plurality of normally open circuits corresponding in number to the fixed terminals, and each adapted to be closed by contact of the movable terminal 15 with a fixed terminal 16. The several circuit wires may be grouped in a cable at or near the point where they leave the base 12.

The carrier 13 is provided with a pointer 22, and the base 12 is provided with a plurality of indicators 23 corresponding in number and position to the fixed terminals 16, the arrangement being such that when the movable terminal 15 coincides with the fixed terminal 16 of a given circuit, the pointer 22 will coincide with the indicator 23 which pertains to that circuit. The indicators 23 may be cards suitably inscribed and removably inserted in pockets 24 which are formed by the upper surface of the base 12, the under surface of a plate 25 affixed to the upper side of the base, and ribs 26 formed on the under side of the plate and forming partitions between the pockets. The outer ends of the pockets are open so that different indicator cards may be used interchangeably.

It will be seen that the base 12 may be mounted at any convenient point, and that

its fixed and movable contacts may be readily connected in a signaling system, the movable circuit terminal 15 mounted on the carrier serving for all the circuits. While I have shown five fixed circuit terminals, it is obvious that any other suitable number may be employed, and that the said terminals may be arranged in a continuous circular series, if desired.

10 I claim:

A selective signaling apparatus, comprising a base or support, a plurality of open electrical circuits, a carrier free to move on said support, a movable terminal common to
15 all of said circuits yieldingly supported in a retracted position on said carrier, said

carrier and terminal being movable independently of each other, a spring pressed push piece mounted in said carrier and arranged with its lower end in engagement with said movable terminal and a plurality of fixed terminals arranged on said support in a series coinciding with the path of the movable terminal, whereby any one of said circuits may be closed independently of the others.

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

JOHN B. COE.

Witnesses:

C. F. BROWN,
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