

No. 824,430.

PATENTED JUNE 26, 1906.

F. MUSCHENHEIM.  
SIGNAL APPARATUS.  
APPLICATION FILED APR. 2, 1906.

Fig. 1.

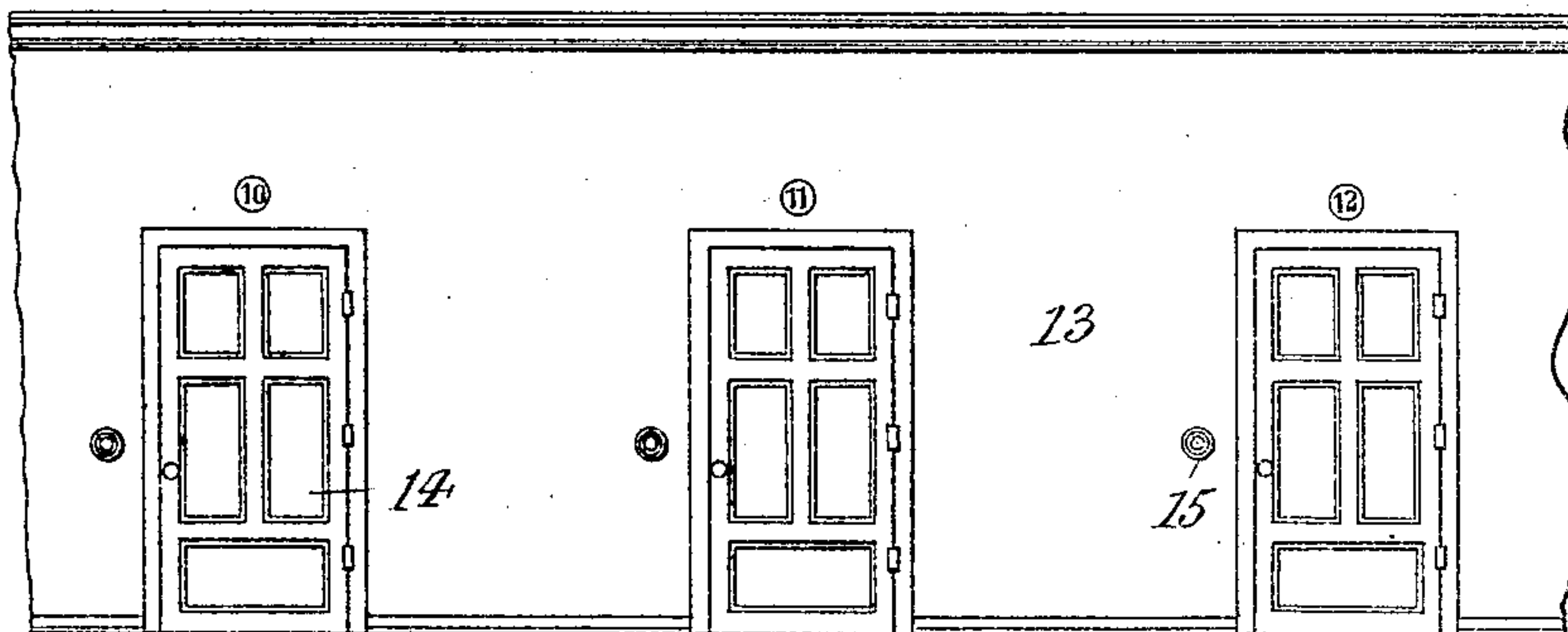


Fig. 2.

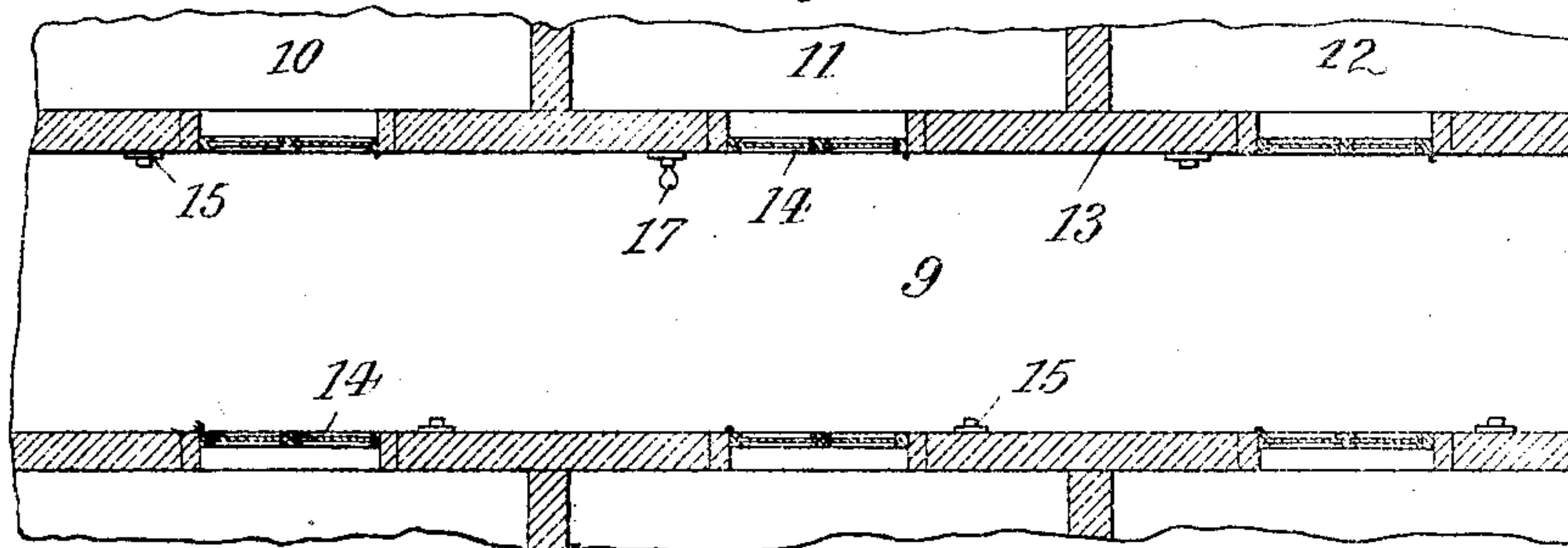


Fig. 3.

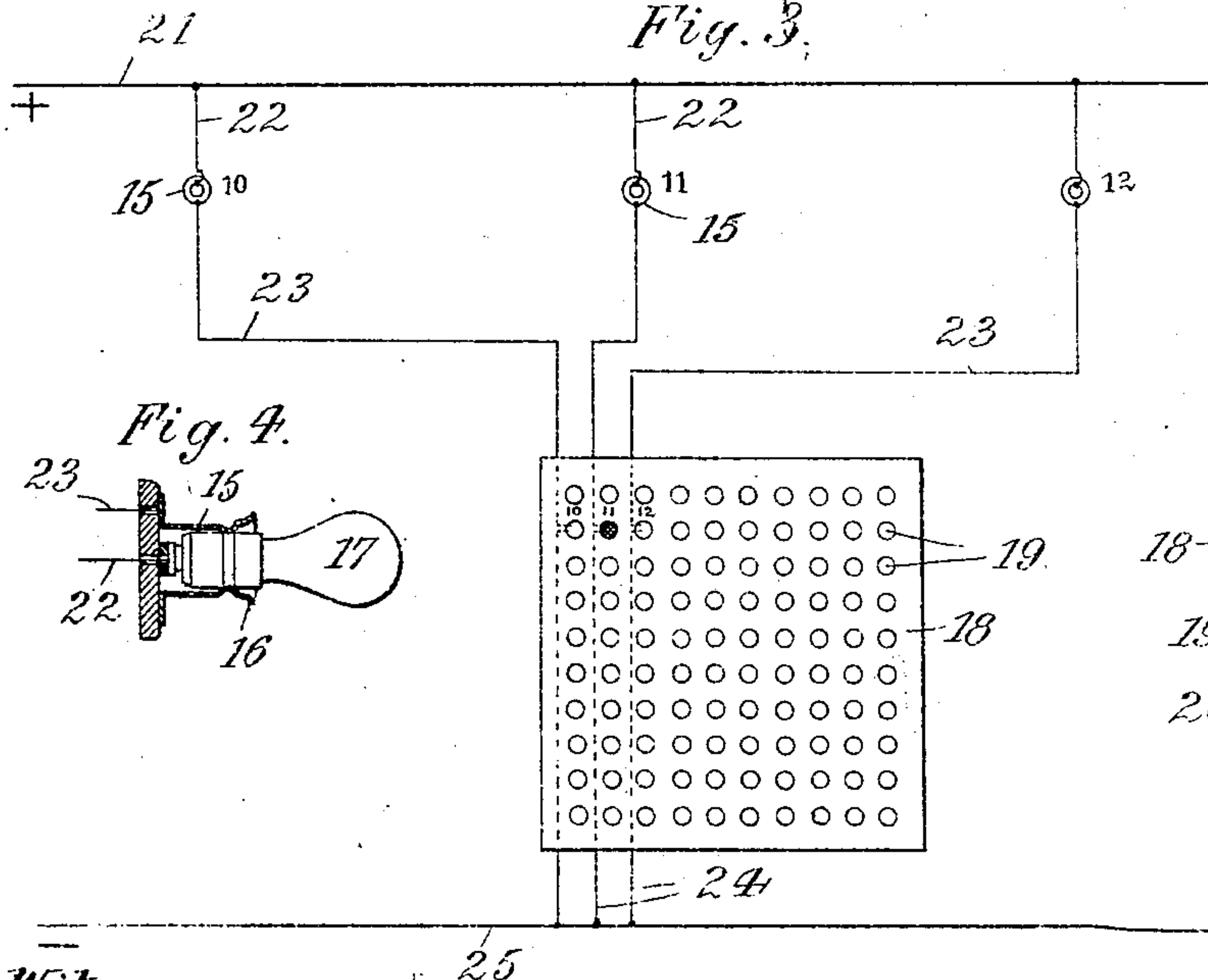


Fig. 4.

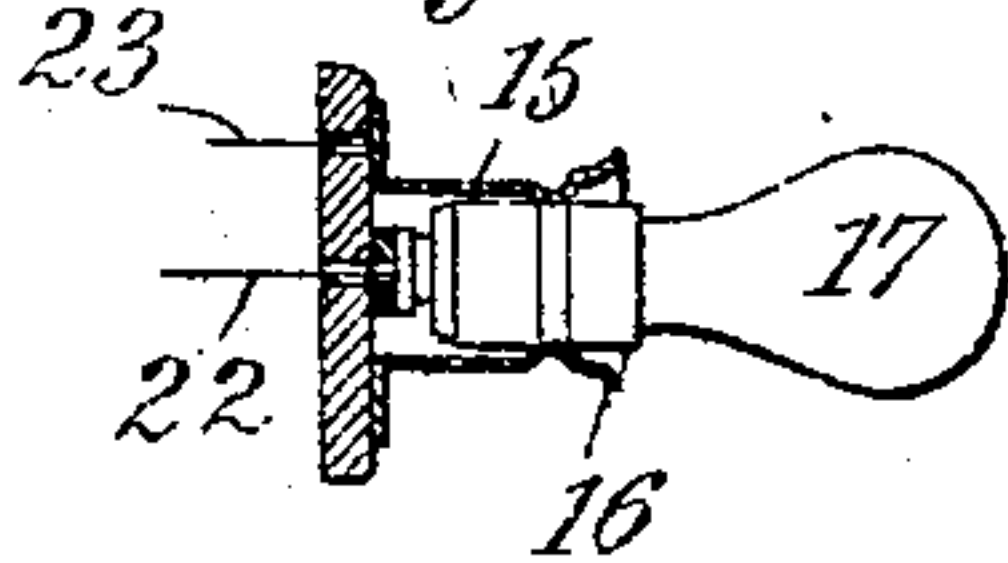
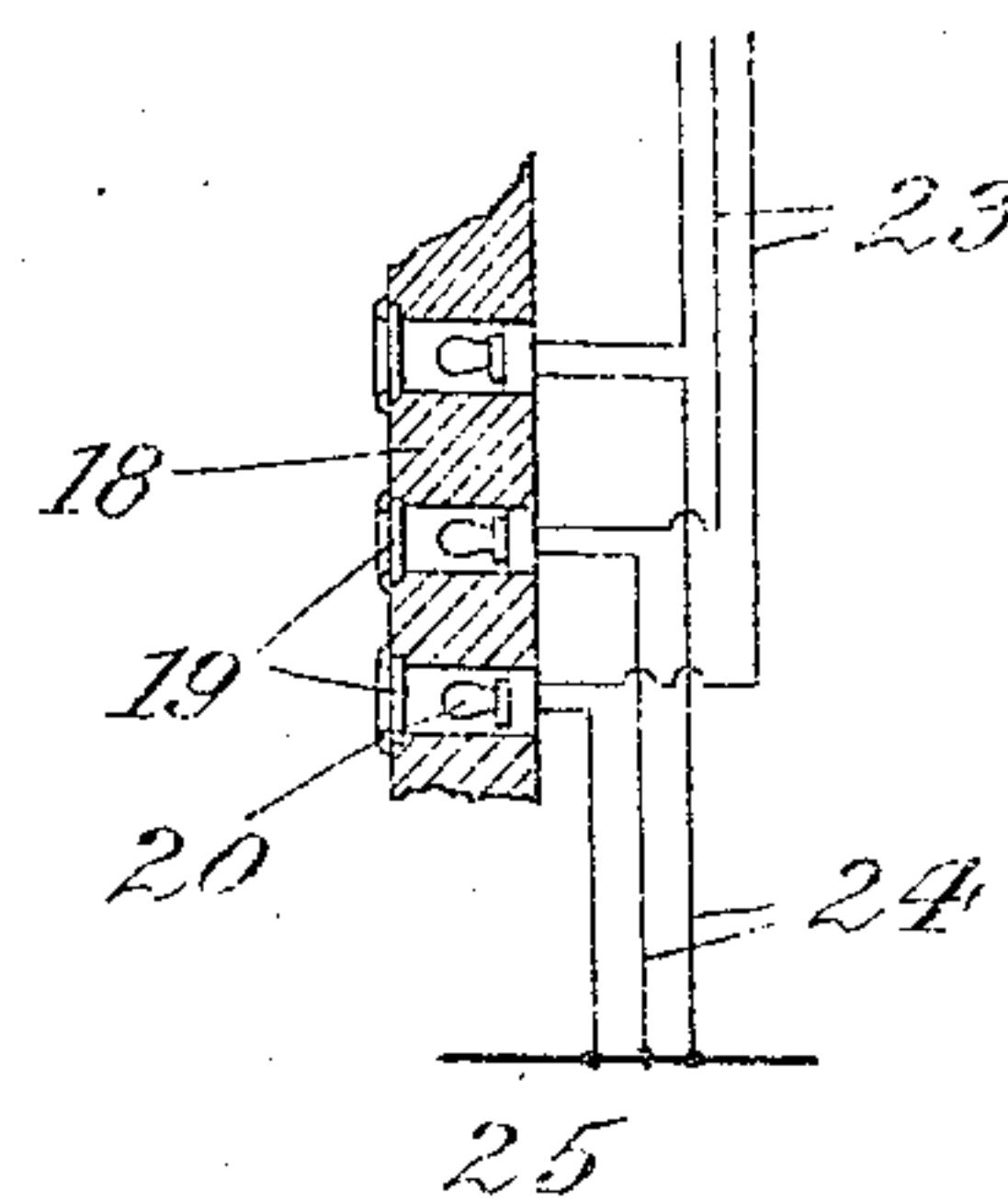


Fig. 5.



Witnesses:  
Arthur G. G. G.  
William Schuch.

Inventor:  
Frederick Muschenheim  
by Frank G. G. G.



# UNITED STATES PATENT OFFICE.

FREDERICK MUSCHENHEIM, OF NEW YORK, N. Y.

## SIGNAL APPARATUS.

No. 824,430.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed April 2, 1906. Serial No. 309,558.

*To all whom it may concern:*

Be it known that I, FREDERICK MUSCHENHEIM, a citizen of the United States, residing at New York city, Manhattan, county and State of New York, have invented new and useful Improvements in Signal Apparatus, of which the following is a specification.

This invention relates to a signal apparatus designed more particularly to provide hotels with means for ascertaining the room in which a chambermaid is temporarily engaged. These means consist of an electric-light bulb which is carried about by the maid and is inserted by her into a socket as soon as she enters a room. Sockets of this kind are provided along the corridor, one being near the door of every apartment. The insertion of the bulb into the socket lights the former and at the same time actuates an annunciator, so that the location of the maid is not only indicated at the office, but also along the hall. Thus the maid always remains in touch with the hotel management, the hall-boys, and the guests, and need not be hunted up as heretofore.

In the accompanying drawings, Figure 1 is a front view of a row of rooms along one side of a hall and provided with my improved signal apparatus; Fig. 2, a horizontal section through a hall; Fig. 3, a front view of the annunciator, showing the wiring; Fig. 4, a detail of the socket and electric-light bulb, and Fig. 5 a section through part of the annunciator.

Along one or both sides of the hall 9 are arranged the rooms or suites 10 11 12, separated from the hall by the walls or partitions 13. To the outer side of wall 13 is secured near the door 14 of each room a socket 15, having a flaring mouth 16. Into this socket may be slipped the end of an electric-light bulb 17, intended to be carried about by the maid. In the hotel office is mounted an annunciator, composed of a board 18, provided with a number of windows 19, which are numbered to correspond to the numbers 10 11 12, &c., of the rooms. Back of each window is an electric light 20 in circuit with the socket 15 of the corresponding room.

The wiring is such that when a bulb 17 is

slipped into a socket 15 a circuit is closed to light the bulb and also to illuminate the corresponding window of the annunciator. As shown, the feed-wire 21 connects by branch 22 with one contact of socket 15. The other contact of the latter communicates by a wire 23 with the corresponding lamp 20 of the annunciator, and thence by wire 24 with feed-wire 25.

When the maid is about to enter, say, room 11, she pushes her lamp 17 into the socket 15 of such room. This will at once cause the light to show in front of said room, which light is clearly visible all along the hall. At the same time the annunciator will indicate to the hotel management when and where the maid is at work. In this way the movements of the maid are readily traced, and she may at all times be readily reached by the various occupants of the hotel.

What I claim is—

1. In a signaling system for hotels, a socket in a hall on the exterior of a room, an electric-light bulb adapted to removably engage the same, and an annunciator in circuit with the socket, substantially as specified.

2. In a signaling system for hotels, a series of rooms ranged along a hall, a series of sockets having flaring mouths and fitted along the hall, one near the door of each of the rooms, an electric-light bulb adapted to engage said sockets, and an annunciator in circuit with the sockets, substantially as specified.

3. In a signaling system for hotels, a socket in a hall on the exterior of a room, a first electric-light bulb adapted to removably engage the same, an annunciator having a second electric-light bulb in circuit with the socket, and means for lighting the second bulb by the introduction of the first bulb into the socket, substantially as specified.

Signed by me at New York city, (Manhattan,) New York, this 23d day of March, 1906.

FREDERICK MUSCHENHEIM.

Witnesses:

WILLIAM SCHULZ,

ERNEST PFENNIGUERTH.