

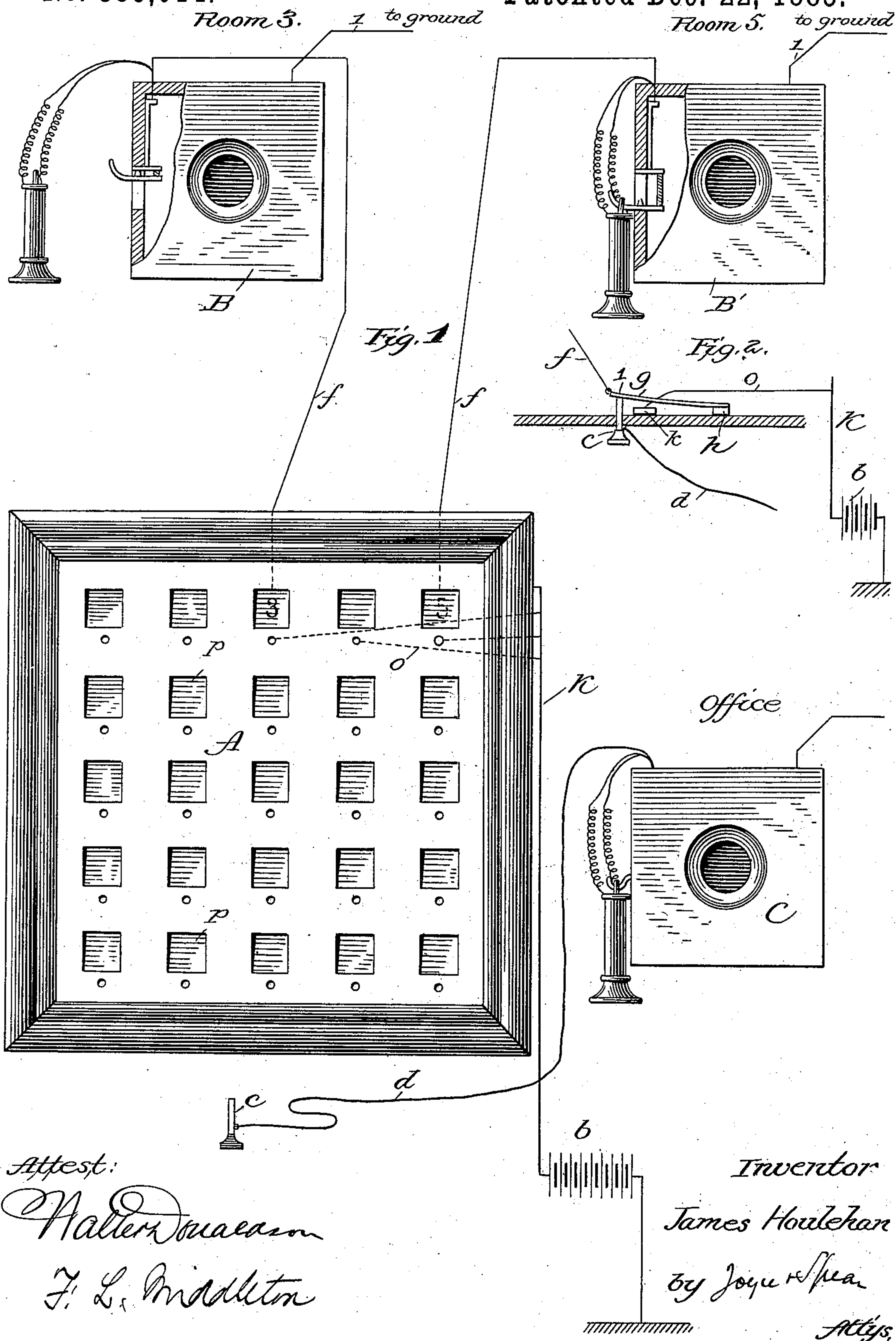
(No Model.)

J. HOULEHAN.

TELEPHONE ANNUNCIATOR AND CIRCUIT.

No. 333,014.

Patented Dec. 22, 1885.



UNITED STATES PATENT OFFICE.

JAMES HOULEHAN, OF TOLEDO, OHIO, ASSIGNOR OF ONE-HALF TO WILLIAM A. BUNTON, OF BOSTON, MASSACHUSETTS, AND SEVEN-SIXTEENTHS J. S. BARKER AND E. E. DWIGHT, OF TOLEDO, OHIO.

TELEPHONE ANNUNCIATOR AND CIRCUIT.

SPECIFICATION forming part of Letters Patent No. 333,014, dated December 22, 1885.

Application filed May 27, 1885. Serial No. 166,877. (No model.)

To all whom it may concern:

Be it known that I, JAMES HOULEHAN, of Toledo, in the county of Lucas and State of Ohio, have invented a new and useful Improvement in Telephone Annunciators and Circuits; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to an arrangement of telephone annunciator and switch-board whereby the different rooms of a hotel may be connected with the office of the hotel or with any telephone-station outside the office.

My object is to enable the occupants of rooms of a hotel to have telephonic communication with the office, and at the same time to provide means whereby any room may be put in telephonic communication with any telephone station or instrument outside of the hotel.

In the accompanying drawings, Figure 1 represents a diagram of the invention. Fig. 2 shows certain details in plan view.

An annunciator-board, A, is fixed in convenient position in the office of the hotel, and is provided with numbers, as shown, representing the various rooms. Ordinary telephones B and B' are placed in the rooms, and, as shown, are connected with the numbers on the board representing these rooms. These telephones are in the wires 1 and f, the former leading to ground and the latter to ground through point 3 5 on the board, and thence through battery b. The office-telephone is shown at C. It is in circuit with the ordinary exchange. It is provided with a wire, d, connected with the telephone, having a metallic pin, c, on its free end, whereby the telephone C is put into the circuit with the telephone in the room. The wire f from every room-telephone is connected to a spring, g, which is fixed at one end to a bar or other support, h. The free end extends under and bears up

against a bar, k, connecting, through wire o, the room-telephone electrically with the wire K, running to battery b. These, with the other ground-connections of each room-telephone, complete the circuit thereof. The end 1 of each spring g is underneath the board and directly in line with the hole placed near each number, and when the pin c is inserted in a hole its end presses the end of the spring g away from the bar k, and thus the room-telephone is put into the circuit of the office-telephone, and the connection of the said room-telephone with its own battery is broken. The numbers of the board are provided with an ordinary cover, p, which is worked by the battery in the usual way to uncover the number and give notice of the room calling.

An electrical bell may be used to attract the attention of the clerk when the person in any of the rooms desires to call the office. Thus any room of the hotel may not only be in telephonic communication with each other, but with the exchange of the city.

I claim as my invention—

In combination, an annunciator-board, A, having numbers for each room, a telephone in each room, connected to its appropriate number on the board by a wire, f, and spring g, arranged in line with the hole in the board, the wire K, and battery b, with connections o, and bars k to each spring g, the office-telephone in an ordinary circuit, and the wire d and pin c, all arranged to operate substantially as set forth.

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

JAMES HOULEHAN.

Witnesses.

W. C. DUVALL,
F. L. MIDDLETON.