

GEORGE B. SCOTT.

Improvement in Electro-Magnetic Hotel Annunciators.

No. 122,664.

Patented Jan. 9, 1872.

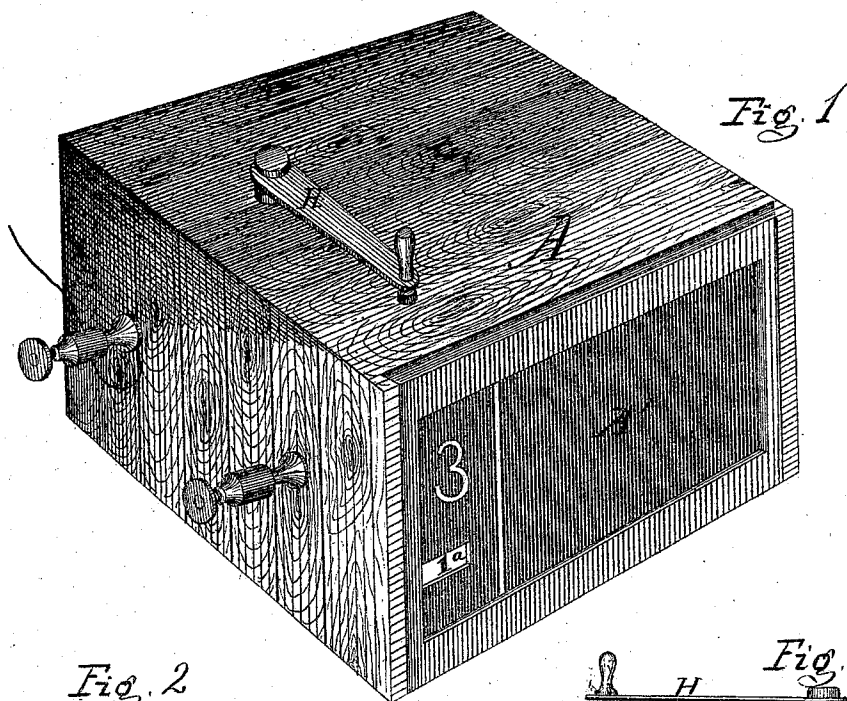


Fig. 1

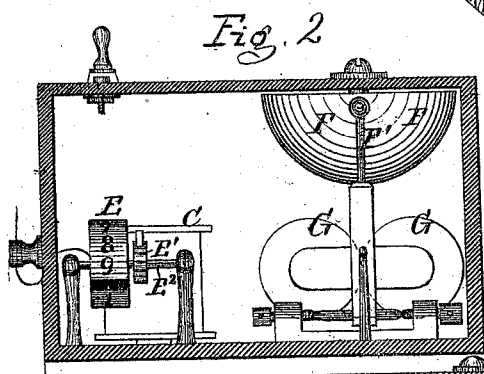


Fig. 2

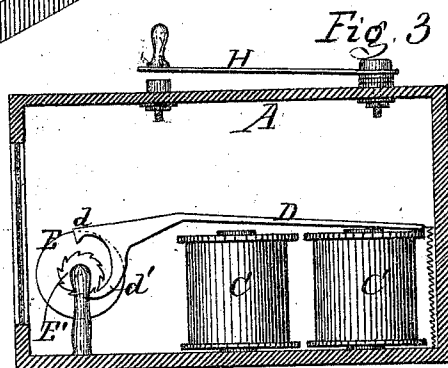


Fig. 3

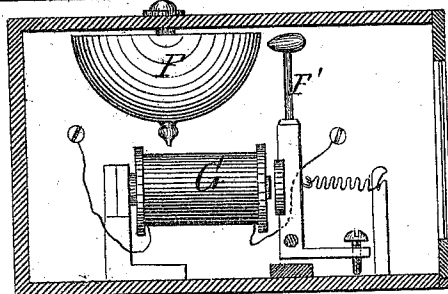


Fig. 4

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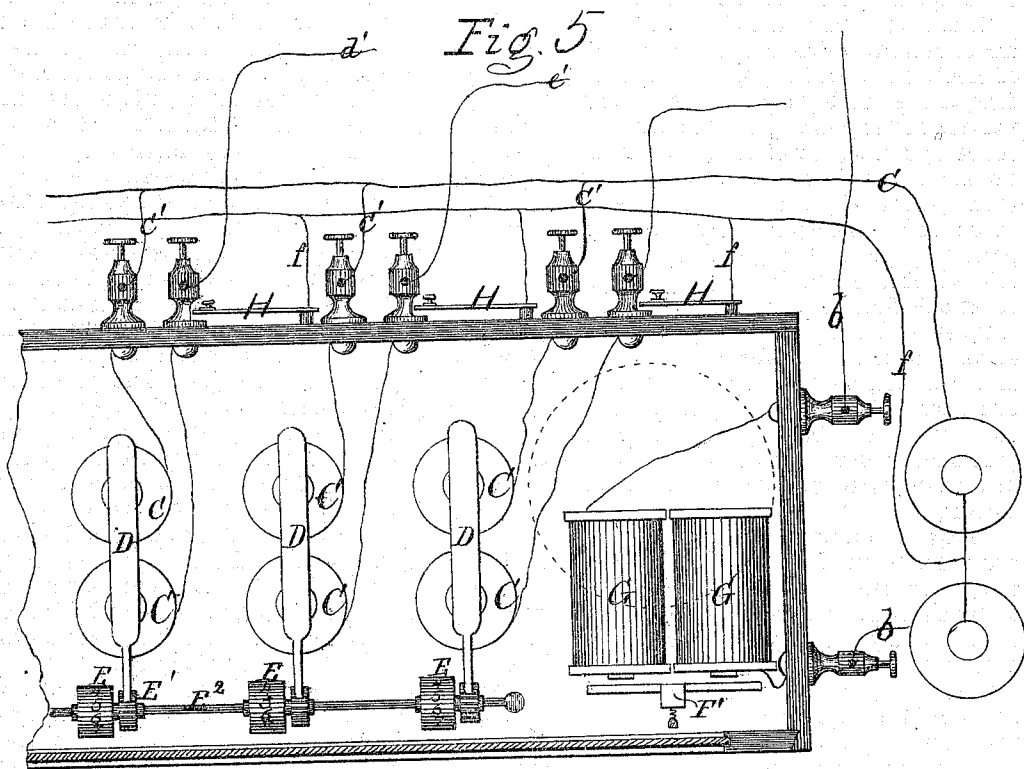
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UNITED STATES PATENT OFFICE.

GEORGE B. SCOTT, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN ELECTRO-MAGNETIC HOTEL-ANNUNCIATORS.

Specification forming part of Letters Patent No. 122,664, dated January 9, 1872.

Specification describing a certain Improvement in Hotel - Annunciators, invented by GEORGE B. SCOTT, of Brooklyn, in the county of Kings and State of New York.

This invention relates to that class of hotel-annunciators which are operated by currents of electricity; and my improvement consists, first, in the employment, for each room, of a revolving roller bearing on its periphery a blank space and a series of numerals indicative of certain articles or words, according to a previously-arranged code, which roller is mounted behind a transparent space of an opaque pane of glass, showing only one of the spaces into which the periphery of the roller is divided at one time, and is operated by an electro-magnet and escapement; and second, in the arrangement of a key for each tell-tale magnet and connecting-wires by means of which the clerk can, after answering the call, short-circuit part of the battery, and thus return the particular roller to the starting point without interfering with other signals which may be coming.

Figure 1 is a perspective view of an annunciator for a single room. Fig. 2 is a vertical section thereof. Fig. 3 is a similar section in a plane at right angles to the one in which the section shown in Fig. 2 was taken. Fig. 4 is a vertical section, showing the bell and bell-magnet. Fig. 5 is a plan view, showing several tell-tale magnets and one arrangement of wires and keys.

The same letters of reference are employed in all the figures in the designation of identical parts.

The case A of the annunciator is of sufficient size to receive the required number of tell-tale magnets and a bell and bell-magnet. The battery B may also be inclosed therein, if desired. The number of tell-tale magnets C C corresponds with the number of guest-chambers in the hotel, and each magnet is provided with an armature, D, terminating at its free end in pallets *d d'*, engaging with an escapement or ratchet-wheel, E¹. The latter is fastened to a roller, E, and both are mounted on a shaft, E², so as to turn loosely thereon, with the periphery of the roller in close proximity to the glass side A' of the case A. The roller E bears upon its periphery one blank space and a series

of numerals each of which indicates a certain thing which may be ordered by the guest from his room, where printed directions are hung up giving the signification of each numeral. A transparent space, *a*, is formed in the opaque glass A' opposite to each roller E, of a size just sufficient to expose one division of the periphery of the roller at a time, and above each such space *a* is clearly painted the number of the room with which the magnet operating this particular roller is connected. The escapement wheel E' has as many teeth as there are divisions on the periphery of the roller E, so that each operation of the escapement-lever will turn the latter the distance of one division. F refers to a bell which is struck each time the circuit is closed by a guest in his room by the hammer F' attached to the armature of the bell-magnet G, as best seen in Fig. 4. One pole of the battery is connected by the wire *b* with the bell-magnet, whence it goes to ground. The other pole of the battery is connected by the main wire *c* and branches *c' c' c'* to each of the tell-tale magnets C, whence wires *e' e' e'* lead to the respective rooms and are fastened to the keys or circuit-closers there provided. From the anvil of the key in each room a wire leads to ground. In closing the circuit by the key in a guest-chamber the current passes first through the bell-magnet, operating the hammer of the bell, thence through the ground and a wire, *e'*, through the tell-tale magnet operating the escapement-lever, and finally reaches the other pole of the battery. When all is at rest the blank space of each roller will show through the transparent slit of the opaque glass A'. The occupant of a room now gives a certain number of strokes or pulls, as the case may be, which causes the tell-tale magnet connected with his room to revolve the roller registering the number of strokes just below the number of his room. At the same time the bell is struck once for each of his pulls or strokes, to call the attention of the clerk to the annunciator. In answering, the clerk returns the roller to the starting point. This is accomplished by the following means: The wire *f* is connected at one end to the battery, and, passing thence, is provided with branches *f'* which go to the fulcrums of open keys H on the outside of the box of the annunciator. When this key is closed

a current will pass from one pole of the battery through the wires *ff'*, tell-tale magnet, and wires *c'c*, to the other pole of the battery without affecting the bell-magnet or interfering with signals coming through the other tell-tale magnets.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The magnet C and escapement consisting of the armature D *d d'* and wheel E', in combination with the numbered roller E and the transparent slit or space *a* of the case A, all

arranged and operating substantially as specified.

2. In a hotel annunciator, substantially such as described, the arrangement of the battery, tell-tale magnets, key H, and wires *ff'* and *c c'*, in the manner and for the purpose set forth.

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

Witnesses:

HENRY C. BANKS,
JOHN B. PERRY.

GEO. B. SCOTT.

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