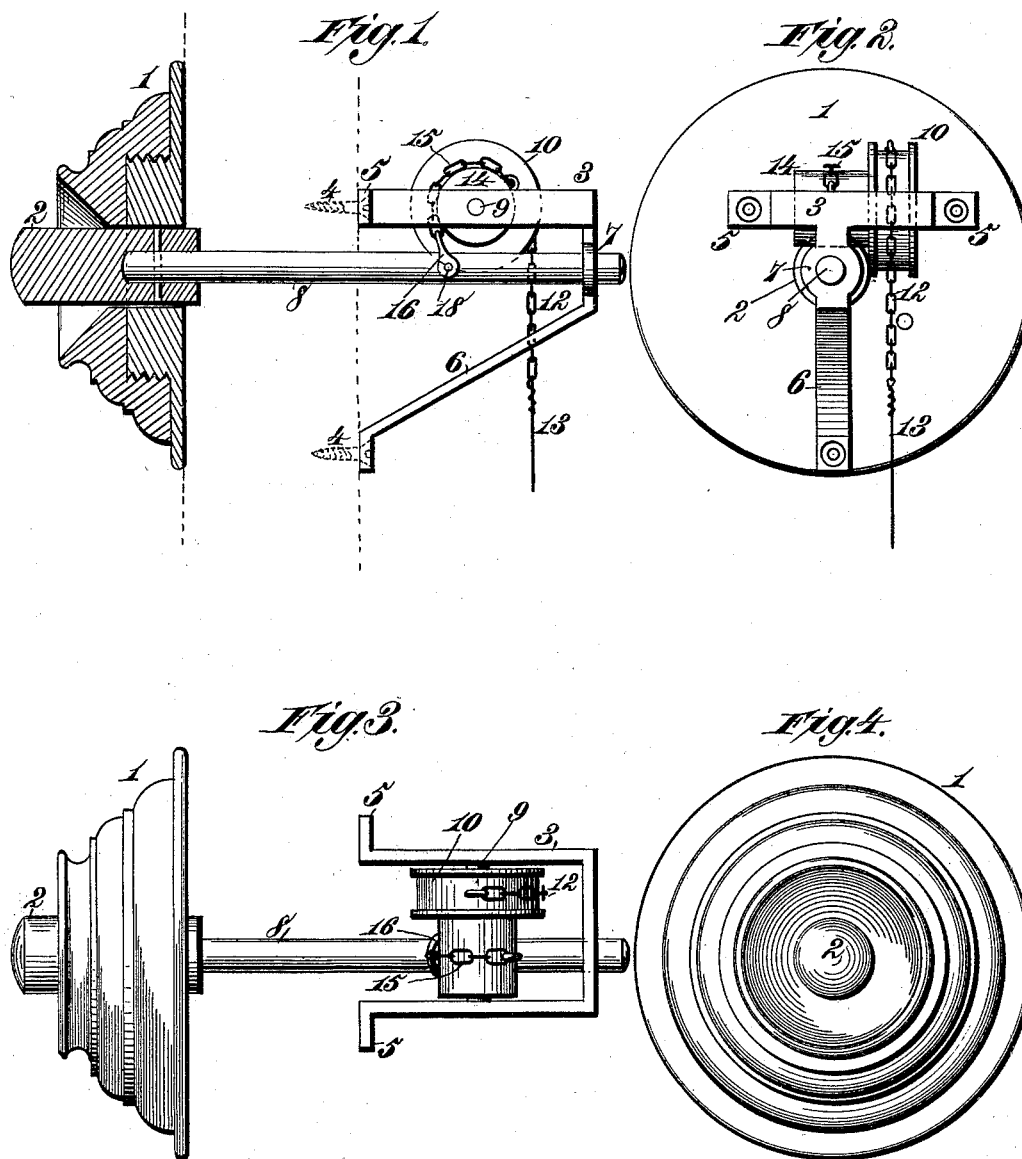


(No Model.)

A. ROSENBERG.  
MECHANICAL CALL BELL AND ANNUNCIATOR.

No. 423,345.

Patented Mar. 11, 1890.



Witnesses,  
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# UNITED STATES PATENT OFFICE.

ALBERT ROSENBERG, OF BALTIMORE, MARYLAND.

## MECHANICAL CALL-BELL AND ANNUNCIATOR.

SPECIFICATION forming part of Letters Patent No. 423,345, dated March 11, 1890.

Application filed May 25, 1889. Serial No. 312,090. (No model.)

### *To all whom it may concern:*

Be it known that I, ALBERT ROSENBERG, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented new and useful Improvements in Mechanical Call-Bells and Annunciators, of which the following is a specification.

It is the purpose of my invention to provide a simple, convenient, and comparatively inexpensive substitute for the common electric call-bell and adapted to operate on an annunciator wholly by mechanical means, but in a manner similar to the well-known push-button, the inward projection of the button being arranged to actuate a call without the intervention of an electric battery.

The invention consists in the several novel features of construction and new combinations of parts hereinafter fully set forth, and then defined in the claims following this specification.

Referring to the accompanying drawings, Figure 1 is a sectional view illustrating my invention. Fig. 2 is a rear elevation of the parts shown in Fig. 1. Fig. 3 is a plan view of the same. Fig. 4 is a front elevation.

In the said drawings, the reference-numeral 1 denotes the circular pallet, which is formed of wood, metal, or other material and rigidly mounted upon the wall, door-jamb, or other part of the building, or in a recess formed for its reception. Centrally arranged within said pallet is the pusher 2, which lies in a seat or orifice, wherein it is capable of longitudinal movement in the usual manner.

Upon the opposite face of the wall, jamb, or other support to which the pallet is attached is mounted a U-shaped bracket-frame or yoke 3, having horizontal arrangement and attached by means of screws 4, passing through lugs 5 on the ends of its parallel arms. The other end of the yoke is braced and stiffened by a diagonal arm 6, having a bearing 7, in which moves the bar or rod 8, mounted in the inner end of the pusher 2.

In the bracket-frame 3 is journaled a shaft 9, having a drum 10, upon which winds a chain 12, one end of the latter being attached to an eye on the drum and the other end to the bell wire or cord 13. Upon the same shaft

is also formed or mounted a barrel 14, upon which winds a chain 15, having one end connected to an eye or staple on the barrel and the other end attached to the bar or rod 8 by means of a forked connecting-link 16, which straddles the bar, and has its ends pivotally connected therewith by means of a pin 17, passing through said bar. The chain 15 winds upon the barrel from the rear toward the pallet, while the chain 12 winds upon its drum in the opposite direction.

The operation of the device is perfectly obvious. By manipulating the pusher 2 in the ordinary manner the bar 8 is projected inward, drawing upon the chain 15 and revolving the barrel 14 and drum 10, the latter winding the chain or cord 12 and ringing the bell by mechanical means of any usual pattern. The pusher may be restored to normal position by an independent spring; but ordinarily the springs employed in connection with the bell-cranks will be sufficient for this purpose.

It will be seen that this invention provides a perfect substitute for the bell-pulls ordinarily employed upon house-doors, as well as for the electric bells used in hotels and other establishments.

What I claim is—

1. The combination, with a push-button having a bar connected to the inner end thereof, of a shaft having a barrel and a drum lying in suitable proximity to the bar, a chain or cord winding upon the barrel in one direction and connected to the bar, and an independent chain winding on the drum in the opposite direction and connected to a bell-wire, substantially as described.

2. The combination, with a pallet, of a push-button having a bar or rod, a bracket-frame or yoke having a bearing for said bar, a shaft journaled in said bracket-frame and provided with a barrel and a drum, a chain winding on the barrel in one direction and attached to the bar of the push-button, and an independent chain winding upon the drum in the opposite direction and attached to a bell-wire, substantially as described.

3. The combination, with the pallet 1, of a push-button 2, having a bar 8, a U-shaped

frame 3, connected to the support on which  
the pallet is mounted and braced by an arm  
5, having a bearing 7 for the bar 8, a shaft 9,  
journaled in said frame and carrying a drum  
5 10 and barrel 14, a chain 12, winding upon  
the drum in one direction and attached to the  
end of a bell-wire, and a chain 15, winding  
upon the barrel in an opposite direction and

attached to the bar 8 by a pivotal forked link  
16, substantially as described. 10

In testimony whereof I have affixed my sig-  
nature in presence of two witnesses.

ALBERT ROSENBERG.

Witnesses:

J. R. MILLER,

WALTER R. BALL.