



Witnesses.
Harry King
L. J. Lehmann.

Inventor.
L. J. Vansand
Heard & Moore
attys

United States Patent Office.

LUCIUS J. VANSANDS, OF CHICAGO, ILLINOIS.

Letters Patent No. 95,620, dated October 5, 1869.

IMPROVED HOTEL-ANNUNCIATOR.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, LUCIUS J. VANSANDS, of Chicago, in the county of Cook, and in the State of Illinois, have invented certain new and useful Improvements in Hotel-Annunciators; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction of a hotel-annunciator, and in the arrangement of the devices hereinafter set forth.

Figure 1 is a rear view of my invention.

Figure 2 is a vertical section of the same.

Letter A represents the frame of the annunciator, which consists of an ordinary box, proportioned in size to the number of rooms in the hotel which is attached to it.

Pivoted in the lower corner of the case or frame is the lever B, to one end of which each one of the wires is attached, and which is used to operate the hammer C.

Near the centre of this lever it is bent, so as to form a right angle, the lower part being broad and heavy, so as to draw the upper part back to its first position after ringing the bell.

The upper end of the lever is slotted, so as to receive the arm D, the lower end of which bears against the side of the lever, and has the coiled spring G attached to it, the other end of the spring being secured to the side of the lever.

When one of the wires is pulled, this arm, bearing against a shoulder on the hammer, forces it back to its full length, when it suddenly releases it, and the coiled spring H causes it to ring the bell K.

As the upper end of the lever is drawn back to its place, the upper bevelled side of the arm strikes against the shoulder, and bending down, slips under it, when the spring G causes it to resume its upright position, when it is again ready to be used.

Each one of the wires, after passing into the case, is connected to a tilting lever, L, which is pivoted to the frame M.

From one of the ends of these levers a wire extends downward, and is secured to the lever B, while from the other end there is a wire extending across the frame, and connected to one of the cams N, which operate the pins O.

These cams are pivoted to the frame in such a manner that, when the wire is pulled, they are swung partly around on their pivots, bringing the end, which

is bent downward, to bear against the pins, pressing them outward through the face of the case, as seen in fig. 2. As soon as the wire is released, the lever B draws it back to its position again, leaving the pin extending outward.

There is one of these pins for each wire, which are numbered or lettered upon the face of the case, so that when the bell is rung, the clerk has but to glance at the face in order to see what room the ring comes from.

Under the head of each of these pins there is a slotted plate, P, which is attached to the rods R. These rods are secured to the frame in such a manner that they can turn freely around, and have their ends bent outward at right angles to them.

Moving up and down on the guide S is the slotted plate or lever N, which has a slot cut in its side for each one of the rods R, and is secured to the shaft of the handle W by means of the connecting-arm X.

After the bell has been rung the pin continues to stick out until the handle is turned partly around, which moves the slotted lever V upward, which catches the bent ends of the rods R in its notches, and in turning the rods, the slotted plates P tilt inward, drawing in the pins.

It will be noticed that the cams begin shoving the pins out as soon the wire begins to draw, instead of having to pull the rope to the greater part of its length, as is usual.

Having thus described my invention,

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

1. The cams N, so constructed that they begin to act upon the pins O as soon as the wires begin to draw, substantially in the manner and for the purpose set forth.

2. The rods R, having one end bent at right angles, and having the slotted plates P secured to them, in combination with the pins O and lever V, when used substantially as specified.

3. The levers B, V, and L, bell K, hammer C, rods R, slotted plates P, cams N, arm X, pins O, handle W, springs G and H, and arm D, when arranged and combined to form a hotel-annunciator, substantially as described.

In testimony that I claim the foregoing, I have hereunto set my hand, this 5th day of June, A. D. 1869.

LUCIUS J. VANSANDS.

Witnesses:

WM. H. HOLDEN,
W. W. CLARK.