

No. 723,908.

PATENTED MAR. 31, 1903.

C. B. PAGE.
DOOR BELL.

APPLICATION FILED JULY 3, 1902.

NO MODEL.

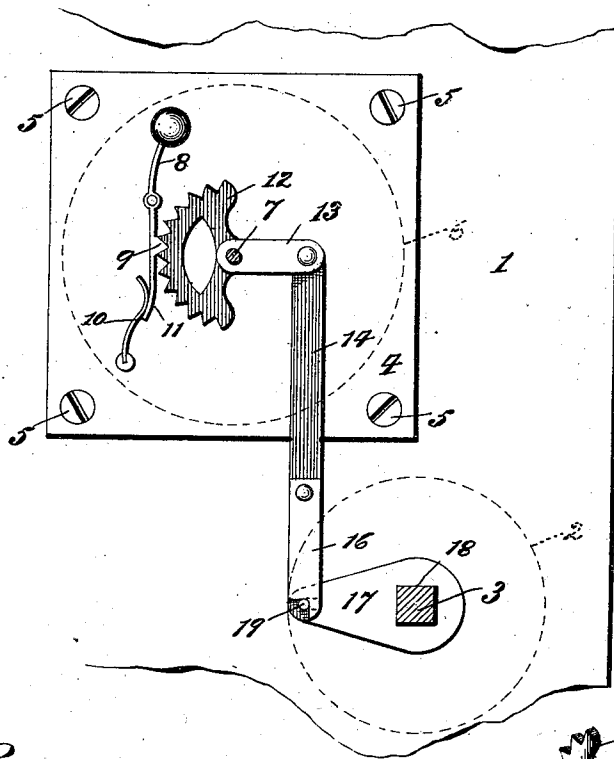


Fig. 1.

Fig. 2.

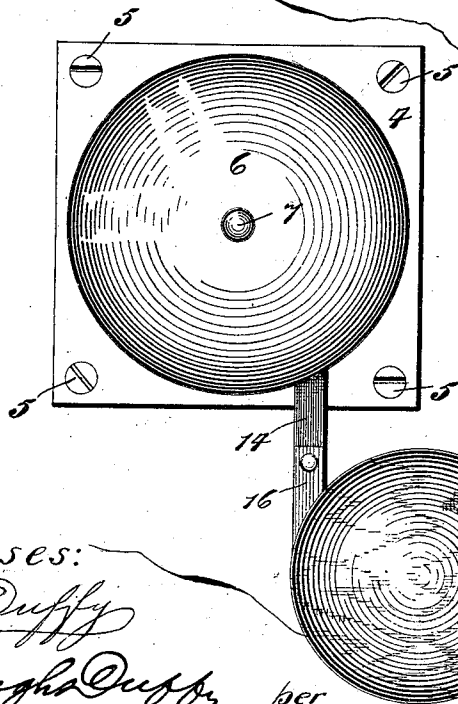
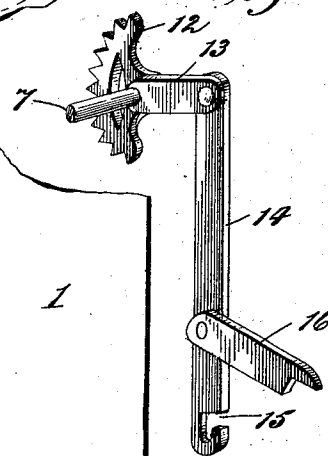


Fig. 3.



Witnesses:

C. E. Duffy

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UNITED STATES PATENT OFFICE.

CLIFFORD BRADLEY PACE, OF WEINER, ARKANSAS.

DOOR-BELL.

SPECIFICATION forming part of Letters Patent No. 723,908, dated March 31, 1903.

Application filed July 3, 1902. Serial No. 114,283. (No model.)

To all whom it may concern:

Be it known that I, CLIFFORD BRADLEY PACE, a citizen of the United States, residing at Weiner, in the county of Poinsett and State of Arkansas, have invented certain new and useful Improvements in Door-Bells; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to "door-bells," but more particularly to that class which is operated by the door-knob, and has for its object to provide a device of this class which is particularly simple in construction, easy and positive of operation, and composed of a minimum number of parts.

A further object of my invention is to provide a device of this class which can be readily attached to any door without cutting or defacing the same and which is designed to be used in connection with the ordinary knob and bolt.

With these objects in view my invention consists in the novel construction and arrangement of the connections and operating means of the bell.

My invention also consists in the particular combination of parts, which will be first fully described, and afterward specifically pointed out in the appended claims.

Referring to the accompanying drawings, Figure 1 is a plan view of my invention, showing the bell and door-knob removed, but their position indicated in dotted lines. Fig. 2 is a plan view of my invention in an operative position. Fig. 3 is a perspective view of my bell-operating mechanism.

Like numerals of reference indicate the same parts throughout the several figures, in which—

1 is a part of the door, and 2 is the door-knob. 3 is the door-knob bolt.

4 is the bell-plate, which is secured to the door by the screws 5.

6 indicates the bell, which is carried on the post 7.

8 is the clapper, which is pivoted on the plate 4 and which is provided with lug 9.

10 indicates a spring which bears against the arm 11 of the clapper 8.

12 indicates a toothed segment which is secured to the arm 13 or formed integrally therewith and which is pivoted on the post 7. Pivoted on the arm 13 is a connecting-link 14, provided with a notch 15, which enters said link at right angles thereto near the lower end thereof and which then extends longitudinally a short distance.

16 is a keeper pivoted to the connecting-link, having a portion of its lower end cut away, as shown in Figs. 1 and 3.

17 is a crank which is provided with a square opening 18, through which the door-knob bolt passes, and which is provided at its outer ends with a pin 19, which enters the notch 15 in the connecting-link and which is passed into the longitudinal portion thereof, after which the keeper 16 is swung into position, as shown in Fig. 1.

In operation the knob is turned either way, which raises or lowers the connecting-link, causing the toothed segment to revolve, whereby the teeth thereof alternately push the lug on the clapper-arm and the spring pushes the lug between the teeth, thus rapidly vibrating the clapper and causing the same to strike the bell in a manner similar to an electric gong. The simplicity of this arrangement is at once apparent, and I have provided for disengaging the bell-connecting means when it is desired not to have the bell ring when the knob is turned. To accomplish this, the keeper is swung up in position shown in Fig. 3 and the pin on the crank is disengaged from the connecting-link either manually or by simply turning the knob to the right, which will carry the pin out of the notch.

Having thus described my invention, I do not wish to be understood as limiting myself to the exact construction as herein set forth, but consider myself entitled to all such changes and modifications that fall within the limit and scope of my invention as defined by the following claims.

What I claim as new, and desire to secure by Letters Patent of the United States, is—
1. In a door-bell, the combination with the door-knob bolt of a bell-crank carried thereon, a toothed segment, an arm secured thereto, a connecting-link between said crank and

said arm, and a clapper engaged directly by said toothed segment.

2. In a door-bell, the combination with the door-knob bolt, of a crank carried thereon, a
5 toothed segment, an arm secured thereto, a connecting-link between said crank and said arm, a clapper, a lug on said clapper, adapted to be engaged directly and vibrated by said
segment.

10 3. In a door-bell, the combination with the door-knob bolt, of a crank carried thereon, a connecting-link connected to said crank provided with a transverse and longitudinal

notch therein, a keeper pivoted to said link and adapted to hold said link in engagement 15 with said crank; the whole arranged whereby the crank will disconnect itself from the link when the keeper is raised by turning the door-knob.

In testimony whereof I affix my signature 20 in presence of two witnesses.

CLIFFORD BRADLEY PACE.

Witnesses:

V. C. HEAD,
J. D. YATES.