

J. P. CONNELL.
DOOR-BELL.

No. 186,416.

Patented Jan. 23, 1877.

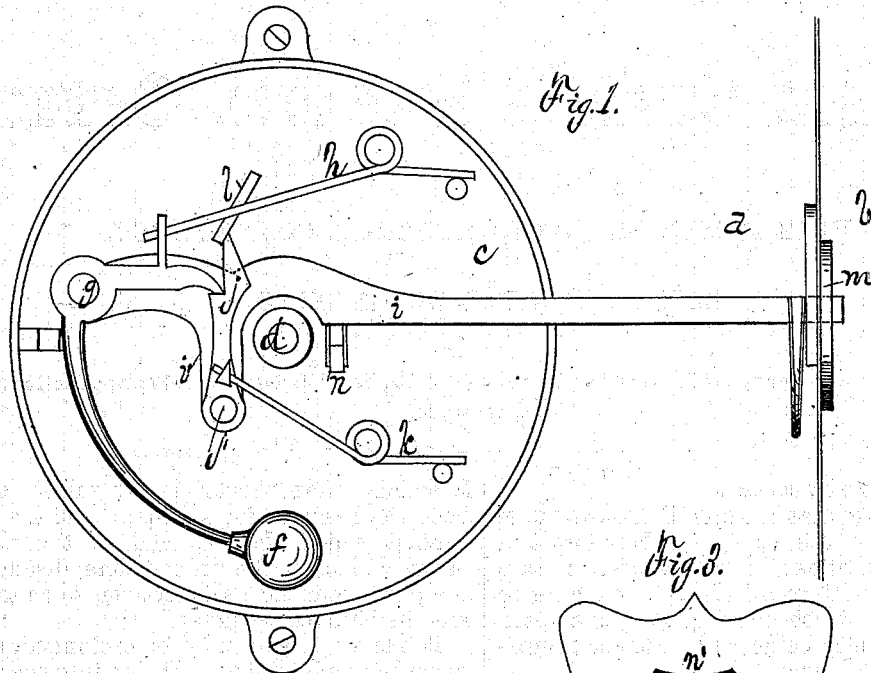


Fig. 1.

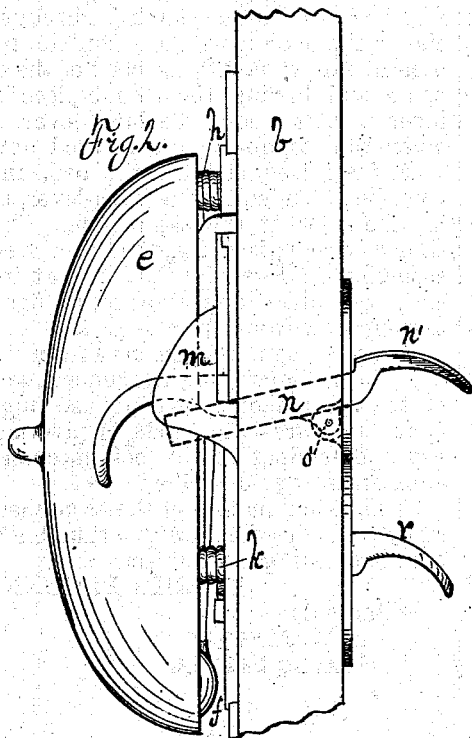


Fig. 2.

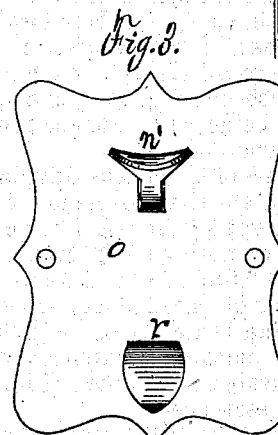


Fig. 3.

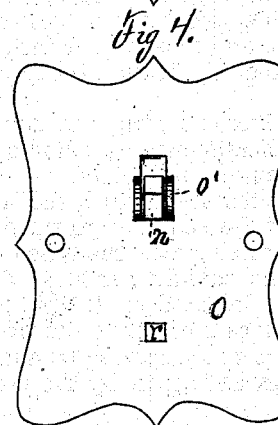


Fig. 4.

Witnesses:
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UNITED STATES PATENT OFFICE

JOHN P. CONNELL, OF KENSINGTON, CONNECTICUT.

IMPROVEMENT IN DOOR-BELLS.

Specification forming part of Letters Patent No. 186,416, dated January 23, 1877; application filed November 29, 1873.

To all whom it may concern:

Be it known that I, JOHN P. CONNELL, of Kensington, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements pertaining to Door-Bells, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a view of a bell embodying my said improvements attached to the inner side of a door, the concave sounding-shell removed, so as to show the operating mechanism. Fig. 2 is an edge view of the door and jamb, producing a side view of the bell, the concave sounding-shell being in its place. Fig. 3 is a front view of the plate or escutcheon upon the other or front side of the door. Fig. 4 is a rear view of the escutcheon.

The mechanism of the bell proper, though an invention of mine, is not the subject-matter of this present application, and with reference to this present application is expressly disclaimed.

The features which do form the subject-matter of this application will be found specified in the claims at the end hereof.

The letter *a* denotes the door; *b*, the jamb; *c*, the base-plate of the bell fixed to the door; *d*, the central pillar rising from the base-plate, and supporting the sounding-shell *e*; *f*, the hammer of the bell, pivoted on the pin *g*; *h*, the spring which gives the hammer its stroke; *i*, a lever pivoted on pin *g*, serving as a latch-lever; *j*, a pawl pressed upon by the spring

k, which, when the lever *i* is raised, draws back the hammer for a stroke; and *l*, a cam, against which the free end of the pawl *j* bears, which, at the proper time, disengages the pawl from the hammer-arm, so as to permit the hammer to strike.

The lever *i* is or may be prolonged, so as to serve as a latch-lever, taking into the catch *m*, affixed to the door-jamb. Through a mortise in the door runs the thumb-lever *n*, pivoted in ears *o'*, fast to the back of the escutcheon *o*, and having the thumb-piece *h'*. The lever *n* runs under the latch-lever, so that when the thumb-piece is pressed down, the lever *i* is raised, striking the bell, and, if lever *i* be extended into a latch-lever, unlatching the door at the same time. Under the thumb-lever *n* is a finger-hold, *r*, fast to the escutcheon. Pawl *j* is pivoted, at its lower end, upon pin *j'*, projecting from finger *i'*, extending downward from lever *i*.

I claim as my improvement and invention—

1. The bell-operating attachment, composed of the escutcheon *o*, bearing the finger-hold *r*, and the ears *o'*, in which is pivoted the lever *n*, extending to the bell mechanism, all substantially as described.

2. The combination of the escutcheon, constructed as described, with a thumb-lever and a bell-operating mechanism.

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Witnesses:

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