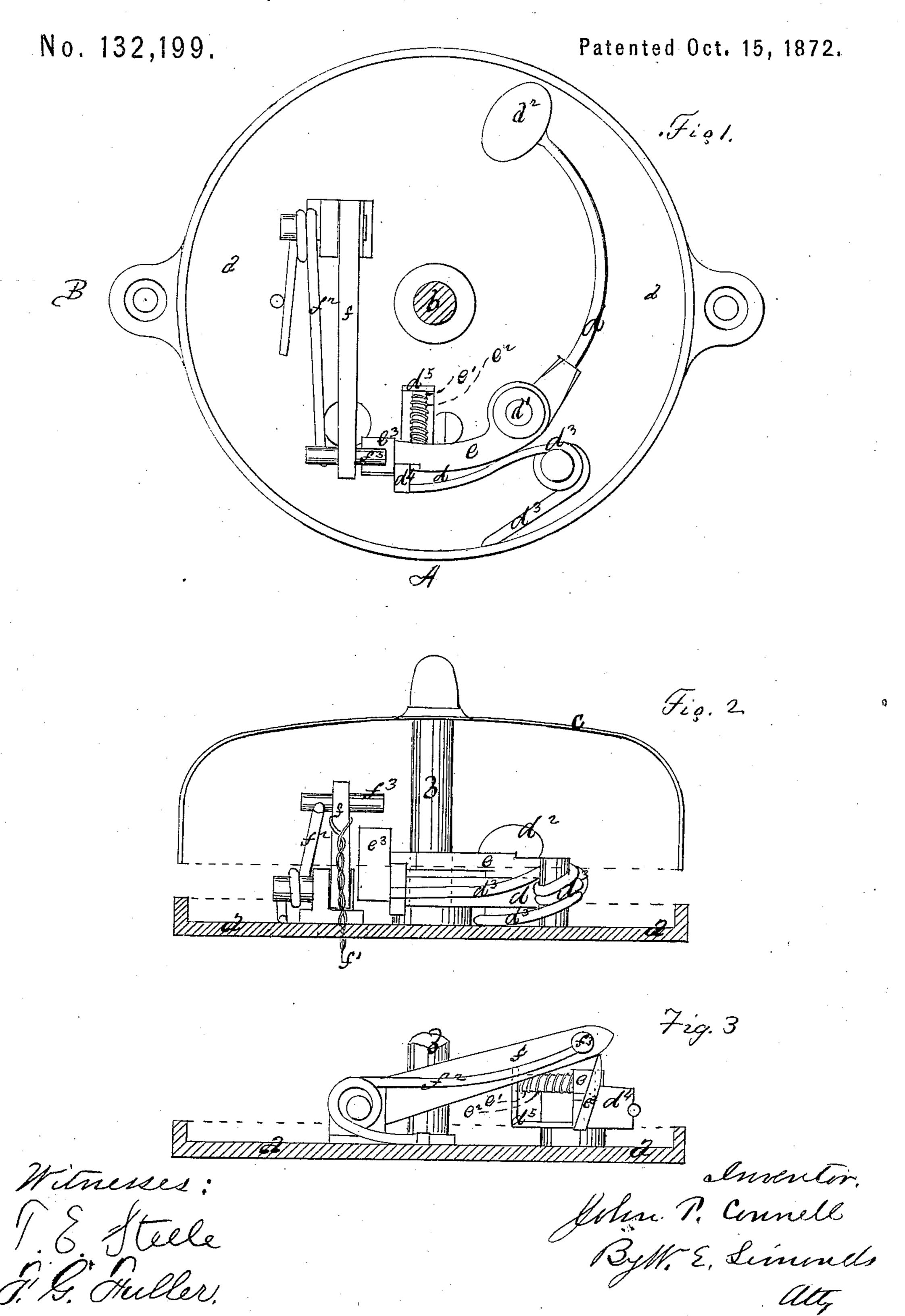
J. P. CONNELL.

Improvement in Door-Bells.



UNITED STATES PATENT OFFICE.

JOHN P. CONNELL, OF KENSINGTON, CONNECTICUT.

IMPROVEMENT IN DOOR-BELLS.

Specification forming part of Letters Patent No. 132,199, dated October 15, 1872.

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 in Door-Bells, of which the following is a specification, reference being had to the accompanying drawing, in which—

Figure 1 is a plan or top view of the bell with its concave sounding-shell removed, so as to show the interior working mechanism; Fig. 2 is a side elevation of the same from the side A, showing, also, the sounding-shell, and representing it and the base-plate as cut in section; and Fig. 3 is a side elevation of the same from the side B, but without the sounding-shell.

This invention is an improvement in that class of door-bells which are operated by a pull-wire running through the back or base-

plate of the bell.

The letter a indicates the base-plate, and b the pillar supporting the sounding-shell c. The letter d indicates the hammer-arm, pivoted on the pin d^1 , and d^2 is the hammer-head. d^3 is the spring which gives throw to the hammer-arm. Overlying the hammer-arm is the cam-lever e, pivoted on the pin d^1 , its back striking against the stop d^4 affixed to the hammer-arm, so that the cam-lever can swing no

further outward than indicated by its position in the drawing. From the inner side of the cam-lever a pin, e^1 , projects, running through the guide d^5 , and on this pin is the spiral compression-spring e^2 , tending to keep the camlever always against the stop d^4 . On the end of the cam-lever is the cam e^3 . The letter f indicates the pull-wire lever, and f^1 is the pull-wire running through a hole in the baseplate. f^2 is a spring tending to keep the lever f always in the position shown in the drawing.

When the lever f is pulled down it presses past the cam e^3 , carrying back the hammerarm for a stroke, and when the pin f^3 passes by the cam the hammer is tripped and sounds the bell. The spring f^2 carries the lever f back to position, the pin f^3 passing up on the opposite side of the cam, the spring e^2 allow-

ing it to give way for this purpose.

I claim as my invention—

The combination of the hammer-arm d, the cam-lever e and cam e^3 , and the pull-wire lever f, all constructed and operating substantially as described, for the purpose set forth.

JOHN P. CONNELL.

Witnesses:

E. W. Morgan, Theron Upson.