

C. PENFIELD.

Door Bell.

No. 67,212.

Patented July 30, 1867.

FIG. 1

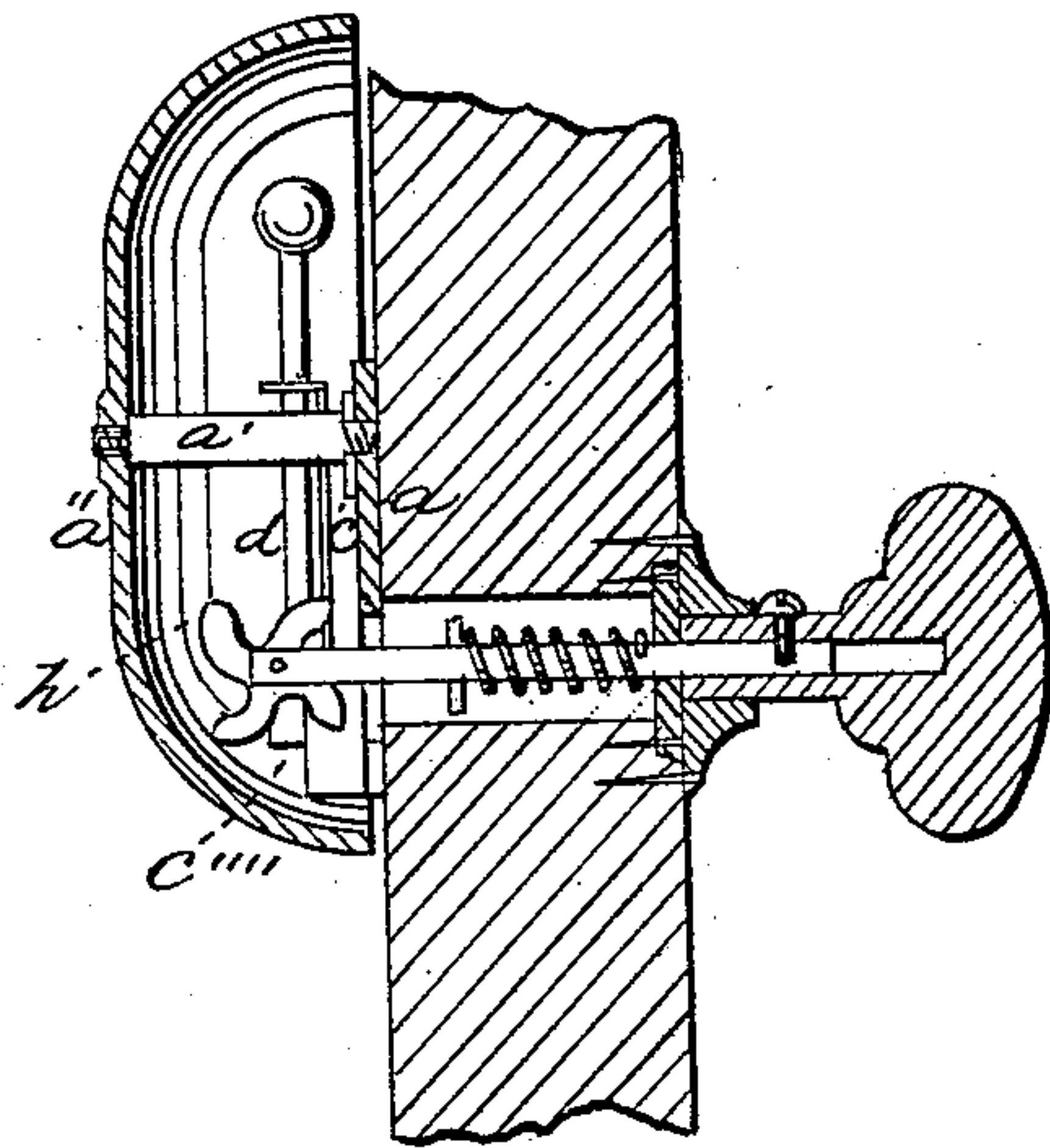
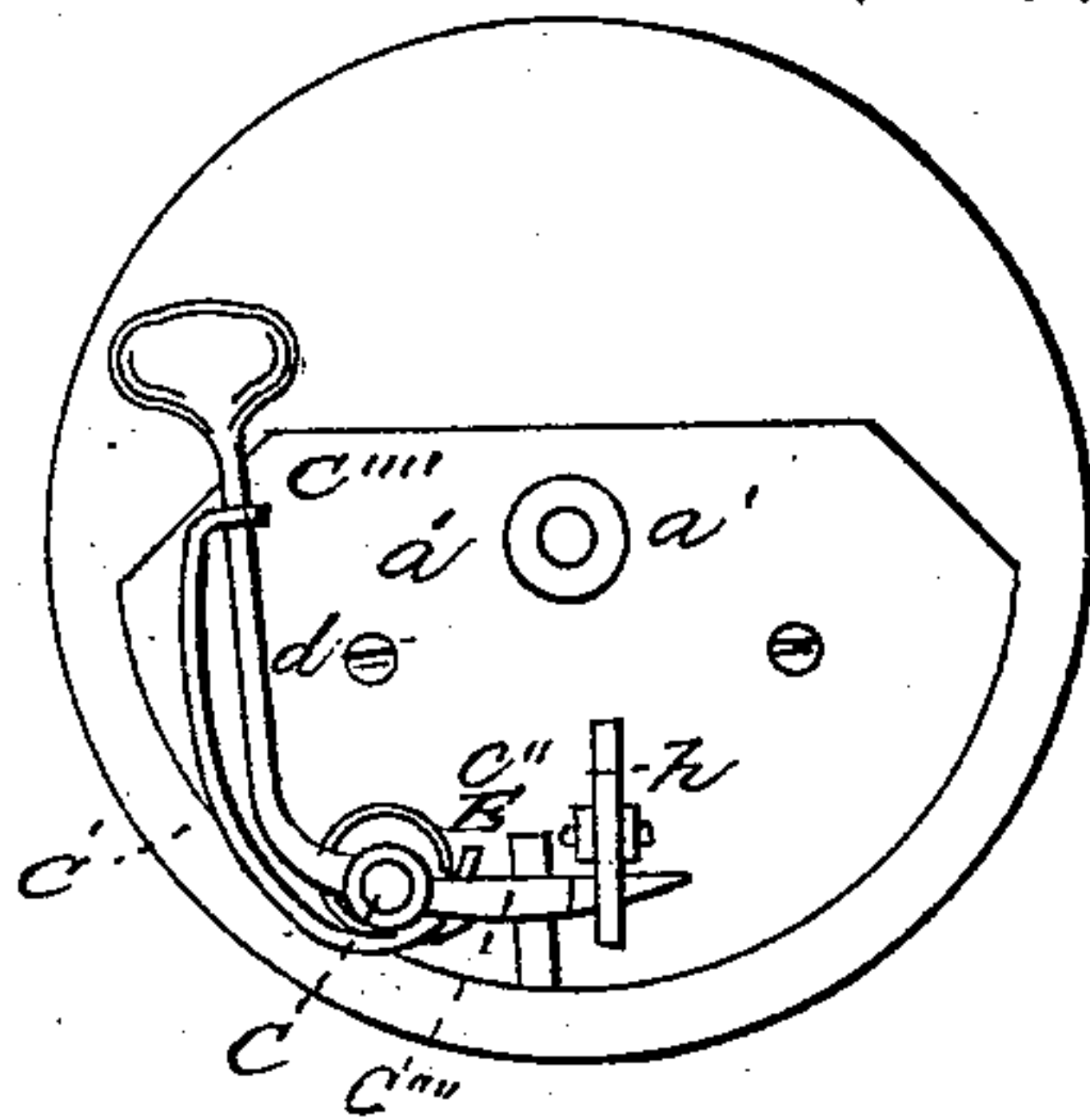


FIG. 2



WITNESSES:

James W. Blye
Thomas G. Knight

INVENTOR:

Chester Penfield

United States Patent Office.

CHESTER PENFIELD, OF NEW BRITAIN, CONNECTICUT.

Letters Patent No. 67,212, dated July 30, 1867.

IMPROVED DOOR-BELL.

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, CHESTER PENFIELD, of New Britain, county of Hartford, and State of Connecticut, have invented certain new and useful Improvements in the Manufacture of Door or Call-Bells; and to enable others skilled in the art to make and use the same I will proceed to describe by referring to the drawings, in which the same figures or letters indicate like parts in each of the figures.

The nature of this invention consists in arranging or securing a revolving prong cam in close proximity with a striking-device, so that when a wire or spindle is pulled one prong will brace itself while the other or opposite prong actuates the hammer. The object of this invention is to cheapen the manufacture and produce a superior article for use. In the accompanying drawings—

Figure 1 is a sectional view thereof.

Figure 2 is a face view of the plate, with the mechanism arranged thereon.

a is the plate, to or upon which the mechanism is arranged and secured. *a'* is the projecting stem, upon the outer end of which the bell *a''* is attached. *c* is a hub, upon which the hammer is arranged and vibrates. Underlying this hammer, and upon the hub *c*, is a spiral arm spring, *c'*. One end of the wire (of which this spring is formed) rests against a detent, *c''*, while a hook, *c'''*, upon the outer or other end of said spiral arm spring, takes hold of and actuates the hammer-rod *d*. *e* is a stop or detent hub formed on the plate *a*, against which the actuating arm *e''''* of the hammer takes its bearing and controls the position of the hammer (while at rest) relative to the point on the bell where it (the hammer) strikes by its vibration, all constructed very much in the usual way. *h* is a prong cam arranged relatively to the pull spindle or operating mechanism so as to revolve partially, or one prong at each pull thereof. When the knob, wire, or spindle is pulled, one prong or foot of the cam takes its bearing upon the face of the plate *a* just one side of the orifice in said plate, (through which it plays and revolves,) while the opposite prong thereof acts or crowds against the side of the outer end of the actuating arm of the hammer until the end of the prong or cam passes by said projecting arm, when the hammer, by the impetus of the spring and the vibration of its arm, will strike the bell each pull of the knob, wire, or spindle. Thus I am enabled to produce a cheap, simple, and efficient door or call-bell.

I believe I have thus shown the nature, construction, and advantage of this invention so as to enable others skilled to manufacture the same therefrom.

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

The revolving prong cam *h*, in combination with mechanism for striking a bell, substantially in the manner as described.

CHESTER PENFIELD. [L. s.]

Witnesses:

JEREMY W. BLISS,
THOMAS G. KNIGHT.