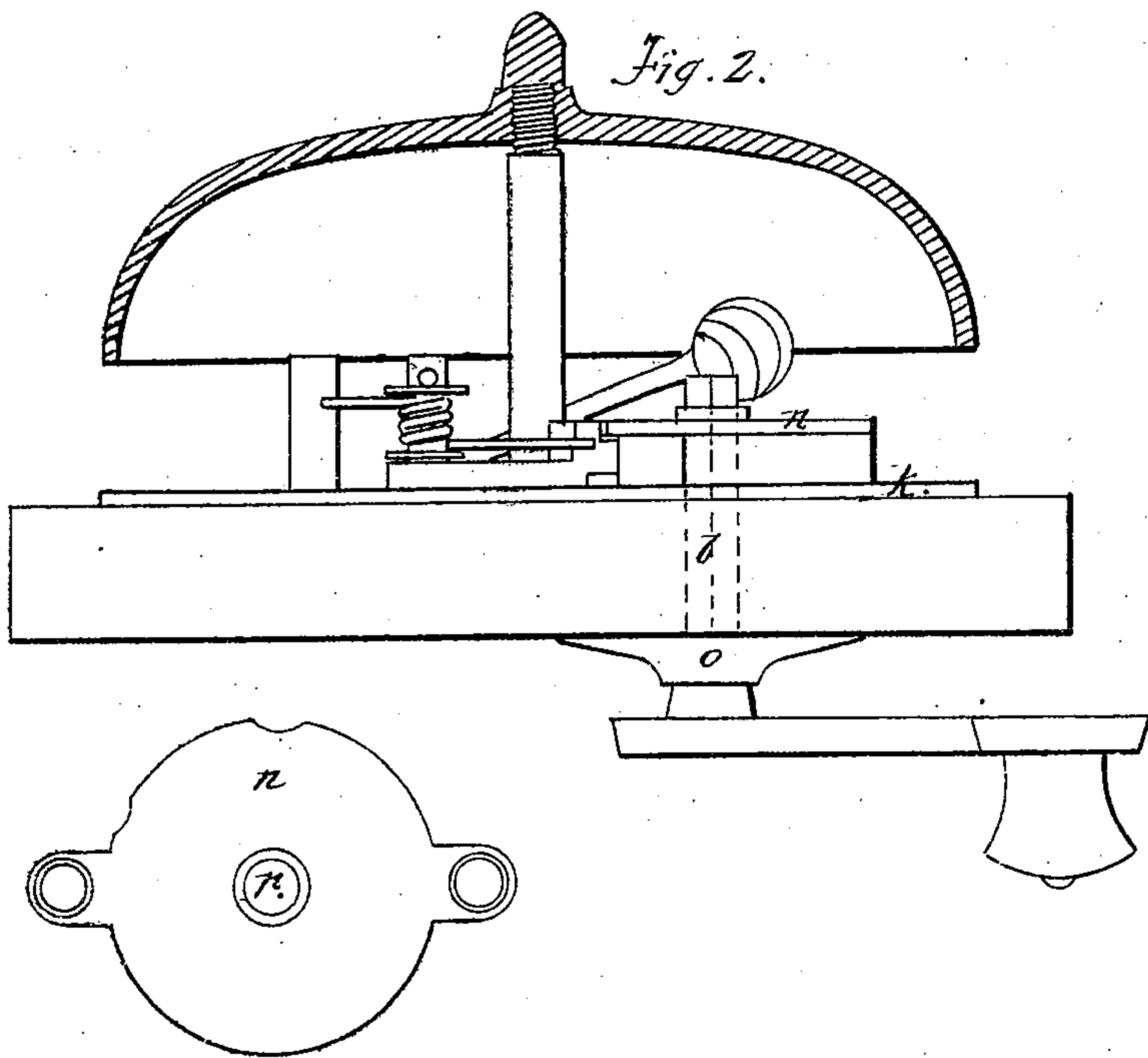
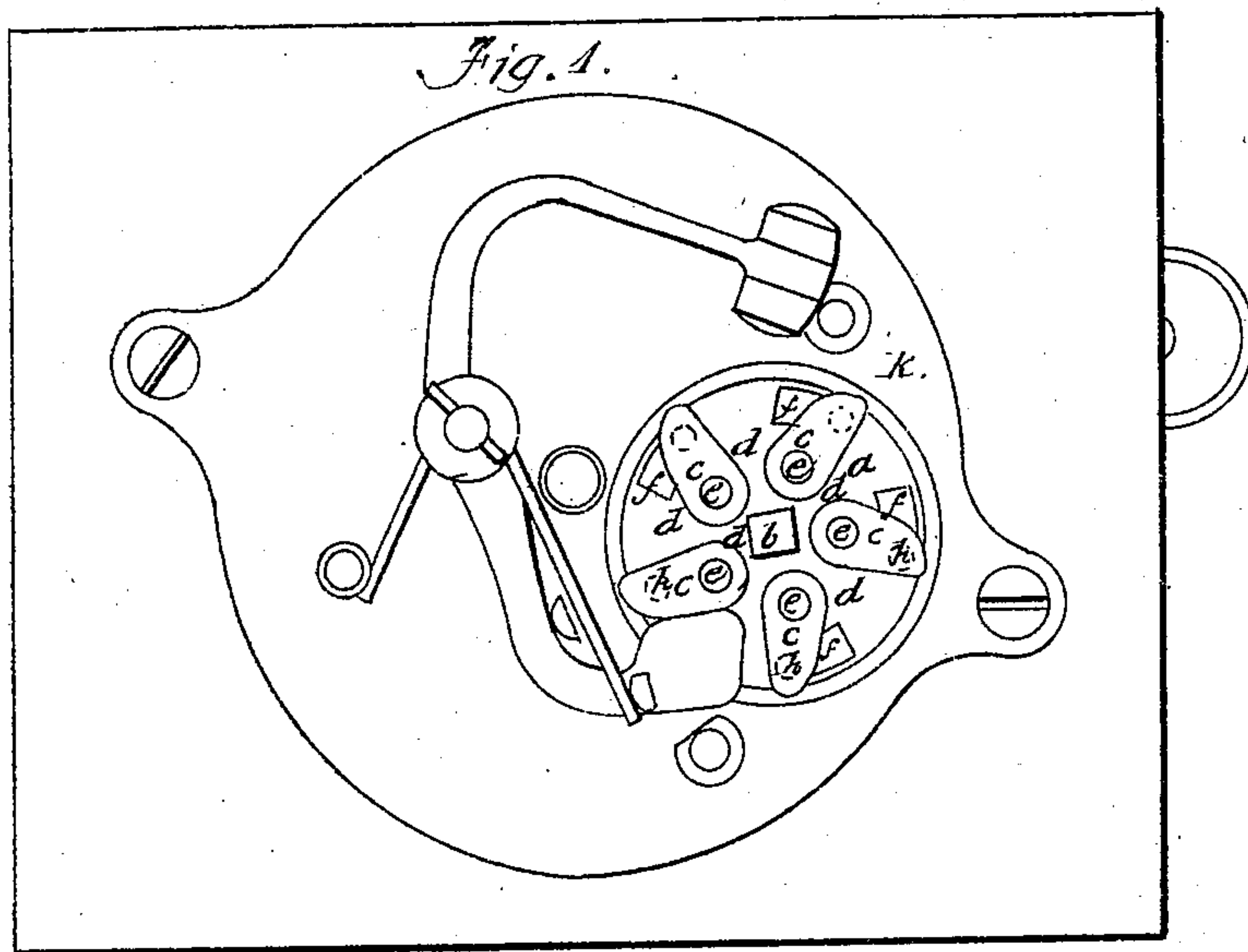


A. T. Brooks.

Door-Bell.

N<sup>o</sup> 72791

Patented Dec. 31, 1867.



Witness

Paul Brown  
J W Brooks

Inventor,  
A. T. Brooks

# United States Patent Office.

ASA T. BROOKS, OF NEW BRITAIN, CONNECTICUT.

*Letters Patent No. 72,791, dated December 31, 1867.*

## IMPROVEMENT IN DOOR-BELLS.

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

The nature of this invention will be understood from the specification and drawings. In the accompanying drawings—

Figure 1 is a face view, with the bell and cap removed.

Figure 2 is an edge view.

This invention consists of a vibratory or rotating hub-plate, *a*, actuated by a knob or crank-spindle, *b*. Upon the face of this plate are provided vibratory cams, *c*. Each of these cams is provided with an orifice, *d*, near their inner ends, which take their bearing upon stud-pins *e*, formed on the face of said plate *a*, in a circle around the spindle-orifice. This plate is also provided with slots *f*, near its outer edge, corresponding in number with the number of cams required. The pins *h*, on the under side of the cams *c*, shown by dotted lines, play in said slots, back and forth, to regulate their vibratory motion, so that, as the spindle *b* actuates the plate *a*, the cam-pins *h* will strike against one end of the slots *f*, and hold the cam in that position until it passes or has tripped the heel-end of the hammer-arm, when it will fly to the opposite side or end of the slot, and allow unobstructed action or vibration of the hammer. By this means the hammer is easily and rapidly actuated by turning or vibrating the knob or crank in the usual way. *k* is a plate to which the mechanism is secured, and by means of which the bell and mechanism are secured in position for use. The hub of the plate *a* is fitted to the orifice in the plate *k*. *n* is a cap which covers the hub or cam-plate *a*, and is secured to the plate *k*. This cap is provided with an orifice or bearing, *p*, for the end of the spindle *b*, while the other end, next to the hub or crank, is secured and supported in its proper place and position by the plate or washer *o*.

By this improvement, a quick and free action of the hammer is produced, by a cheap, simple, and durable arrangement of mechanism.

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

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

The slotted hub-plate *a*, vibrating-cams *c*, cap *n*, actuating-spindle *b*, with the bell-plate and striking-mechanism, substantially as and for the purpose described.

ASA T. BROOKS. [L. s.]

Witnesses:

PAUL REVOIR,

J. W. BLISS.