

No. 692,221.

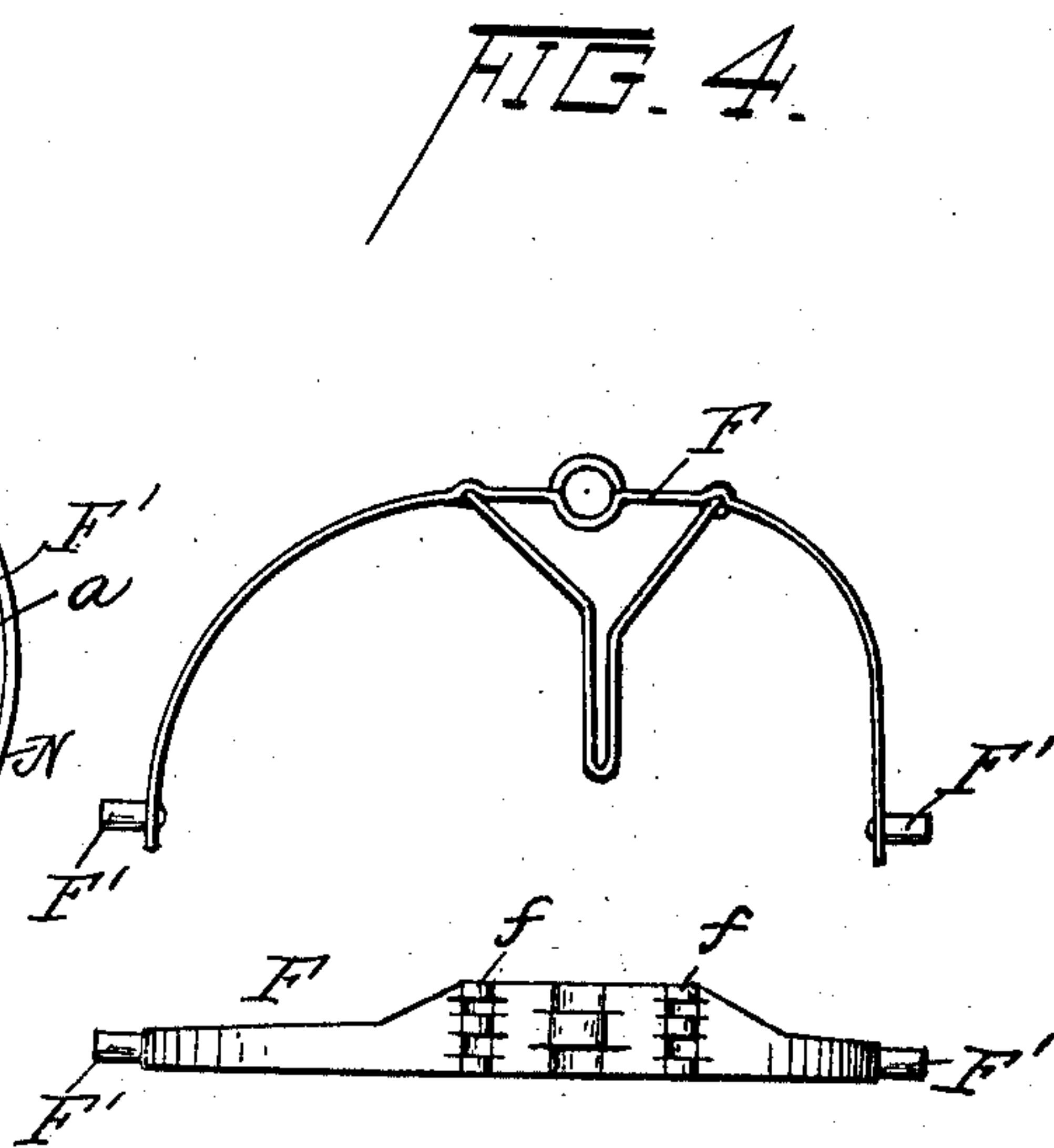
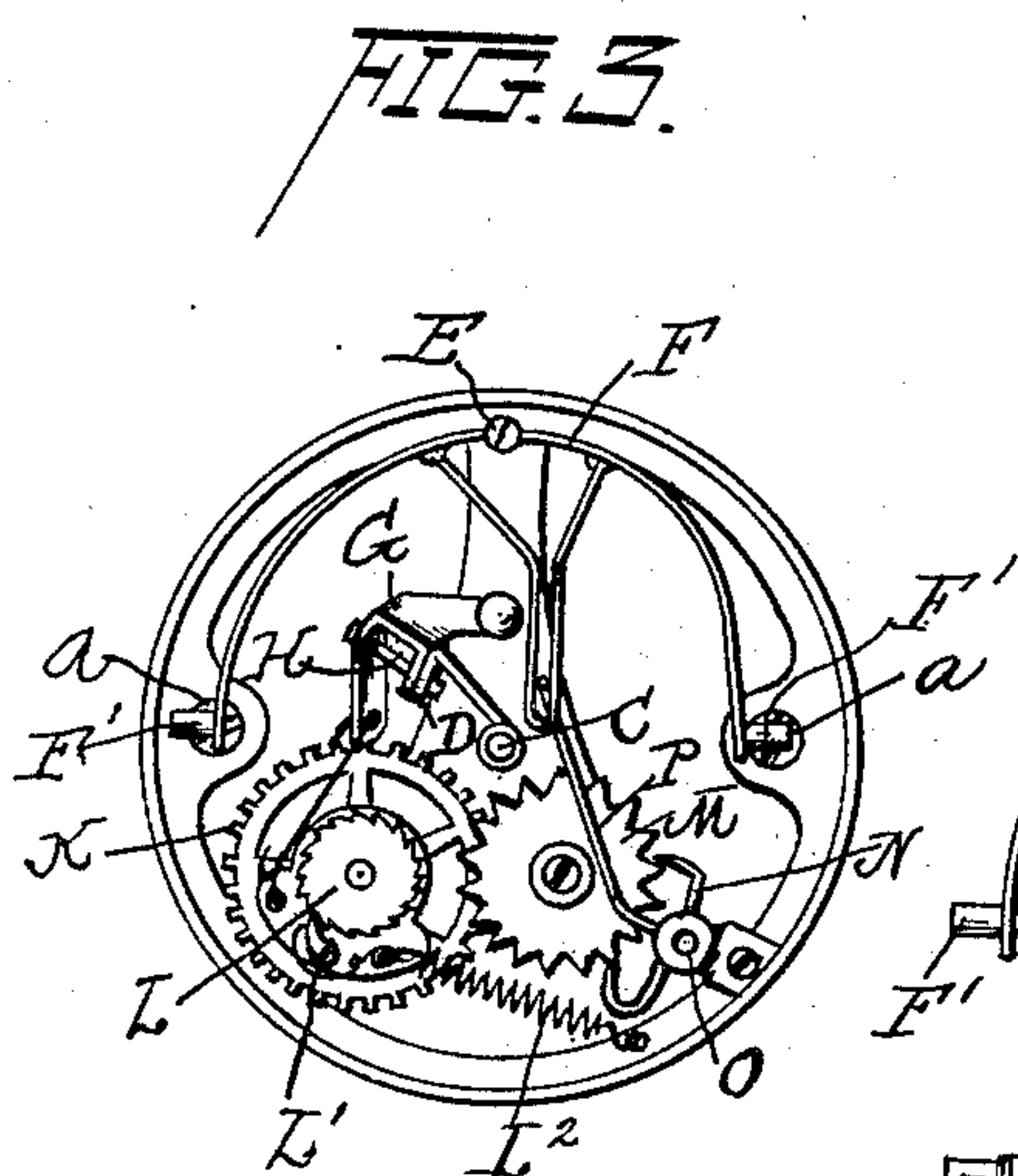
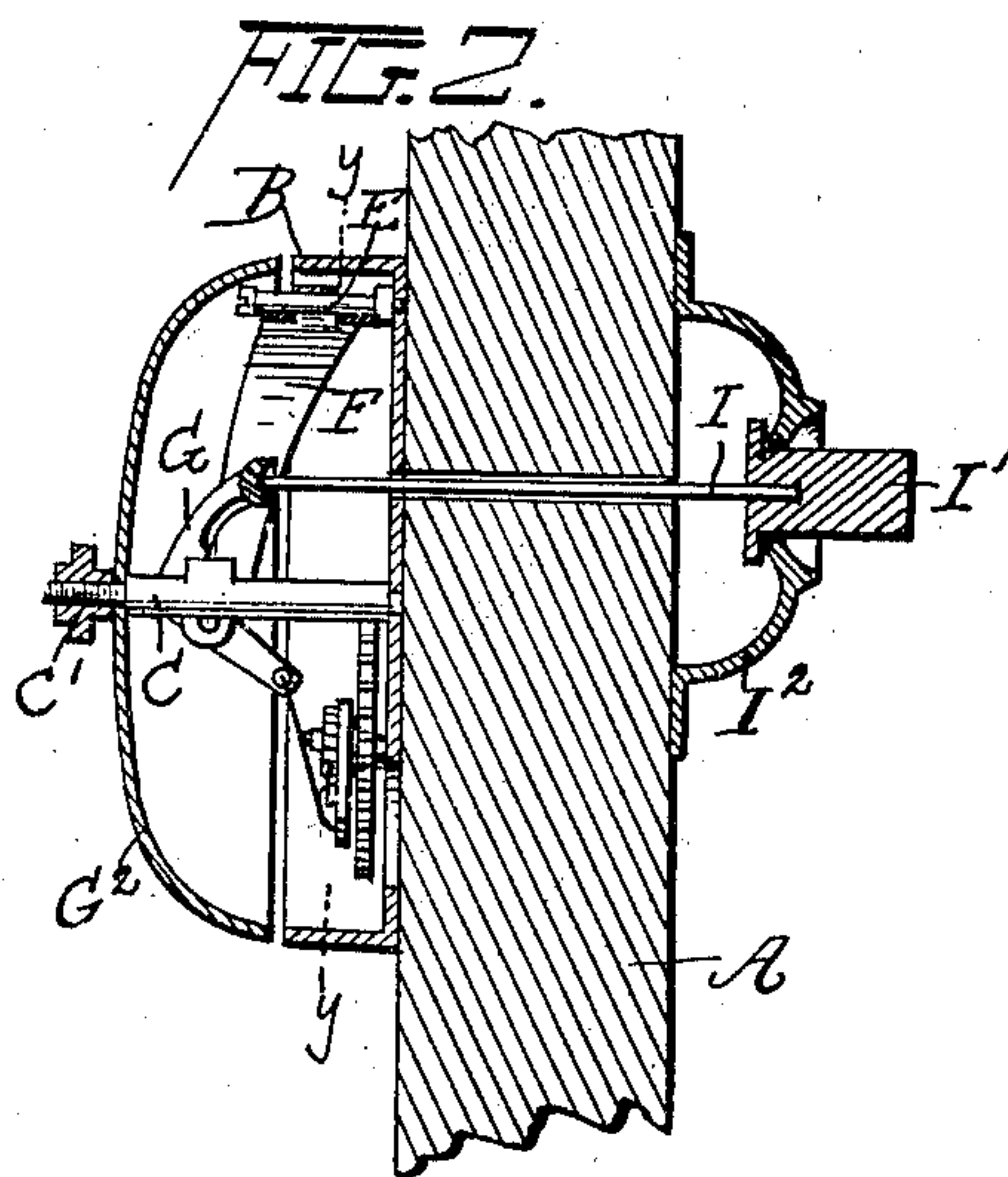
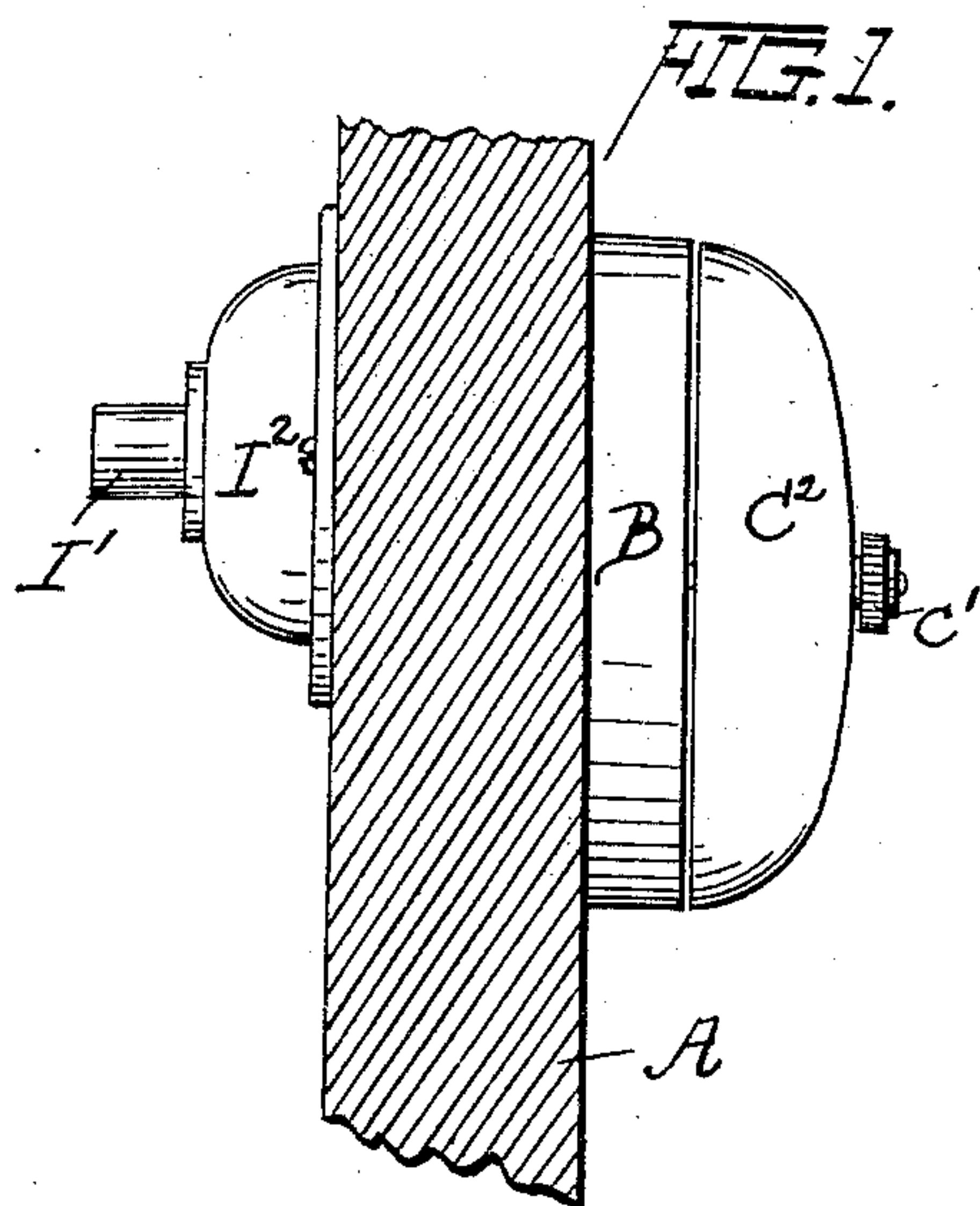
H. L. WASHBURN.

Patented Jan. 28, 1902.

DOOR BELL.

(Application filed June 7, 1901.)

(No Model.)



Witnesses

Sam R. Turner

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UNITED STATES PATENT OFFICE.

HENRY L. WASHBURN, OF NEW YORK, N. Y., ASSIGNOR TO WM. R. MOORE,
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DOOR-BELL.

SPECIFICATION forming part of Letters Patent No. 692,221, dated January 28, 1902.

Application filed June 7, 1901. Serial No. 63,561. (No model.)

To all whom it may concern:

Be it known that I, HENRY L. WASHBURN, a citizen of the United States, residing at New York, in the county of New York and State of New York, 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 letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in that class of door-bells commonly known as "gong-bells;" and the objects of the invention are simplicity, durability, and economy in construction and convenience of operation.

With these ends in view the invention consists in the novel construction and combination of parts, as will be hereinafter more in detail described, and specifically pointed out in the claim.

In the accompanying drawings, to which reference is had and which fully illustrate my invention, Figure 1 is a side elevation of my invention applied to a portion of a door. Fig. 2 is a side sectional elevation of the same. Fig. 3 is a vertical section thereof on line *yy* of Fig. 2, and Fig. 4 represents detached side and plan views of the double hammer.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A represents a portion of the door, to which my bell is secured by screws *a a* or other suitable fastening means.

B designates a flanged base-plate secured to the door portion, upon and within which are mounted the operating and alarm-striking mechanism. This base-plate B is provided with a main central horizontal shaft C, having a screw-thread upon its free end to engage the threads in a nut C', by which a bell C² is secured to said shaft. Forming a part of this shaft and extending parallel with it for about two-thirds of its length is a lug D, having a perforation in its free end which engages a screw passed through a two-armed operating-lever, through the medium of which

the striking-train and operating mechanism are operated, which will be hereinafter described.

E designates a shaft which is secured to and projects rearwardly from the upper portion of the flanged base-plate and in alignment with the main shaft. To this shaft E is pivotally secured a thin flat piece of metal F, of inverted-U shape or bowed form, and which is provided with slitted openings *ff*, and upon its free end knobs F' are secured. Within the openings *ff* is secured and depending therefrom a piece of V-shaped and slotted wire, the V terminating in a vertical slot at a point from its apex, these parts just described constituting a double hammer. (Shown more clearly in Fig. 4 of the drawings.)

G designates a two-armed operating-lever pivotally hung between the lug D of the main central horizontal shaft C and the head of a screw H, said screw pivotally securing the two-armed lever to the lug, and upon and between which and the head of the screw the lever vibrates. To the free end of one of these arms of the operating-lever is secured the inner or one end of a push-rod I, and to the opposite arm at its free end is secured, by means of a piece of wire having its ends bent in hook form, the striking-train and operating mechanism. This push-rod is passed through a perforation made in the base-plate and door portion, the perforations of which aline with each other to permit of this, and upon the opposite or free end of the push-rod is secured a push-button I', which is projected from a centrally-perforated crowning-plate I², secured to the front of the door portion of the device.

The striking train or mechanism, to which is secured the base-plate, consists of the main wheel K, ratchet-wheel L, pawl L', spring L², and escapement-wheel M, the latter being engaged by a pallet N, carried by an arbor O, which also carries the connecting-rod P, which connects the double bell-hammers with the pallet N and its arbor O.

From the foregoing description, taken in connection with the accompanying drawings, the operation of my device will be obvious, and further description herein is deemed unnecessary.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

5 The combination with the flanged base-plate, central horizontal main shaft, and its lug formed integral with said base-plate, two-armed lever pivotally secured to the lug of the main horizontal shaft by means of the screw, push-rod secured to the two-armed lever, crown-piece, and the striking-train secured to the base-plate; of the approximately
10 semicircular metallic strip having the clappers secured to its free ends, V-shaped wire

piece terminating in a vertically-depending slot or way from the apex of the V-shaped portion, and secured to the strip, said strip being pivotally secured to the base-plate, all of said parts constituting the double hammer substantially as herein shown and described as and for the purpose specified. 15 20

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

HENRY L. WASHBURN.

Witnesses:

H. ANDRAE,

THOMAS S. SMITH.