

J. F. BALDWIN.

Till-Alarms.

No. 145,777.

Patented Dec. 23, 1873.

Fig. 1.

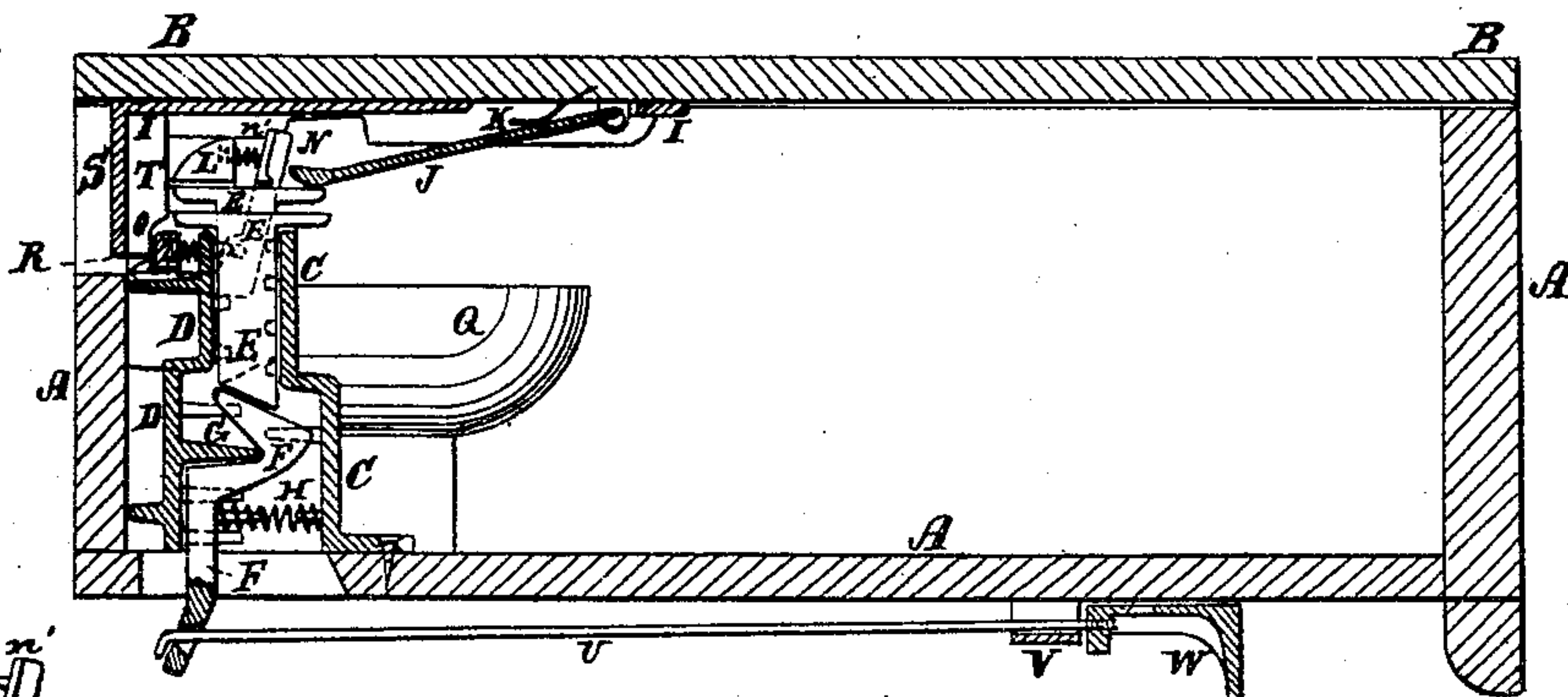


Fig. 5.

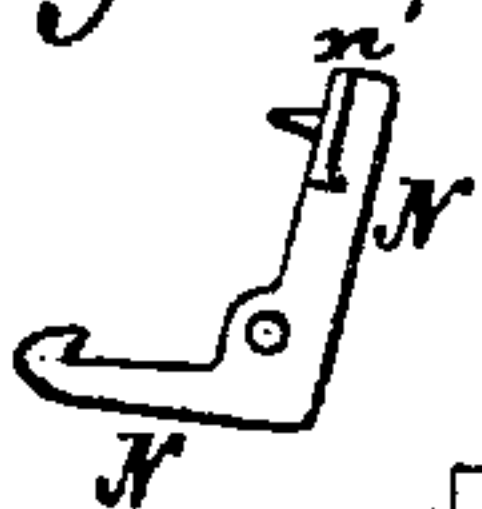


Fig. 2.

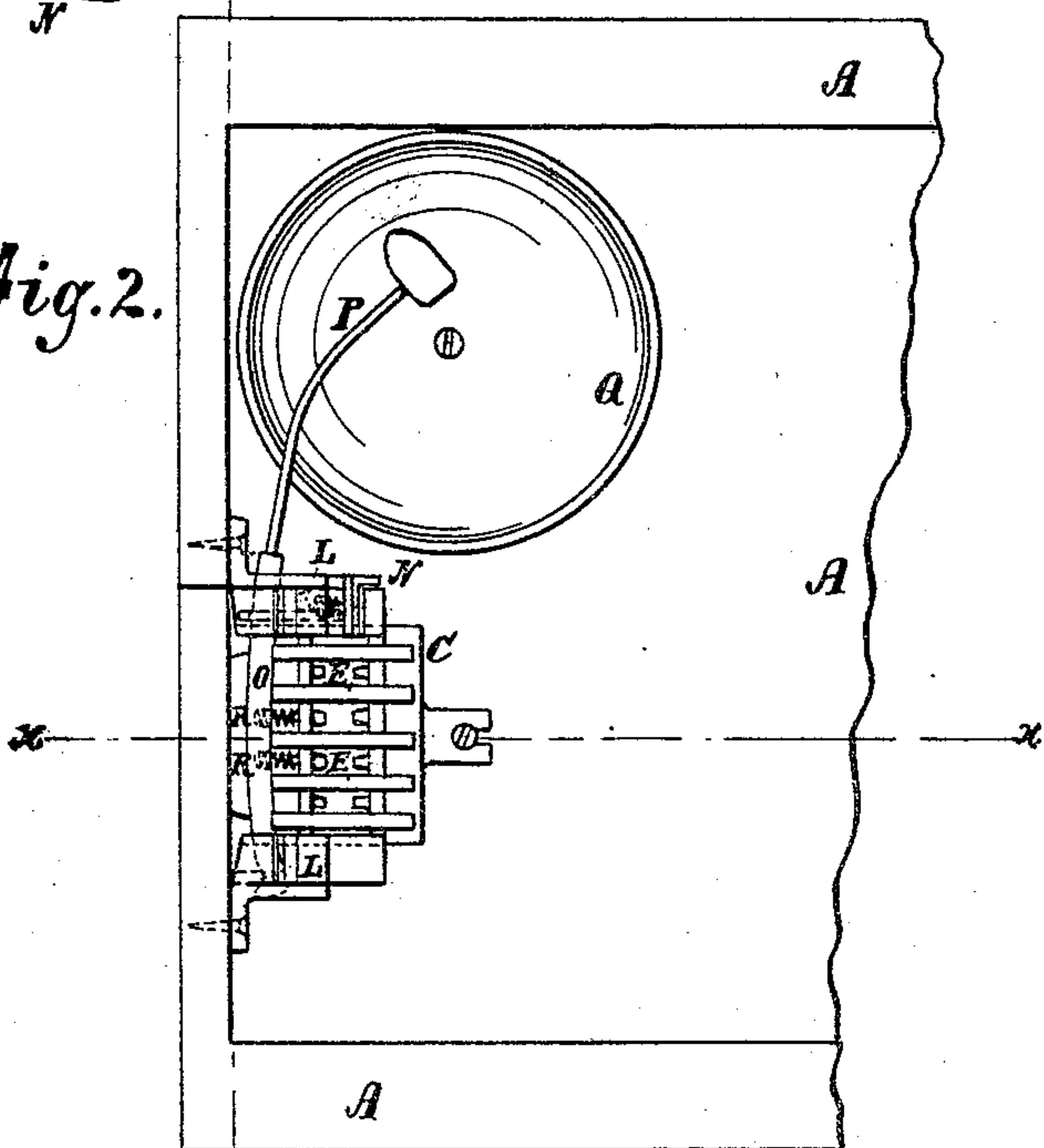


Fig. 3.

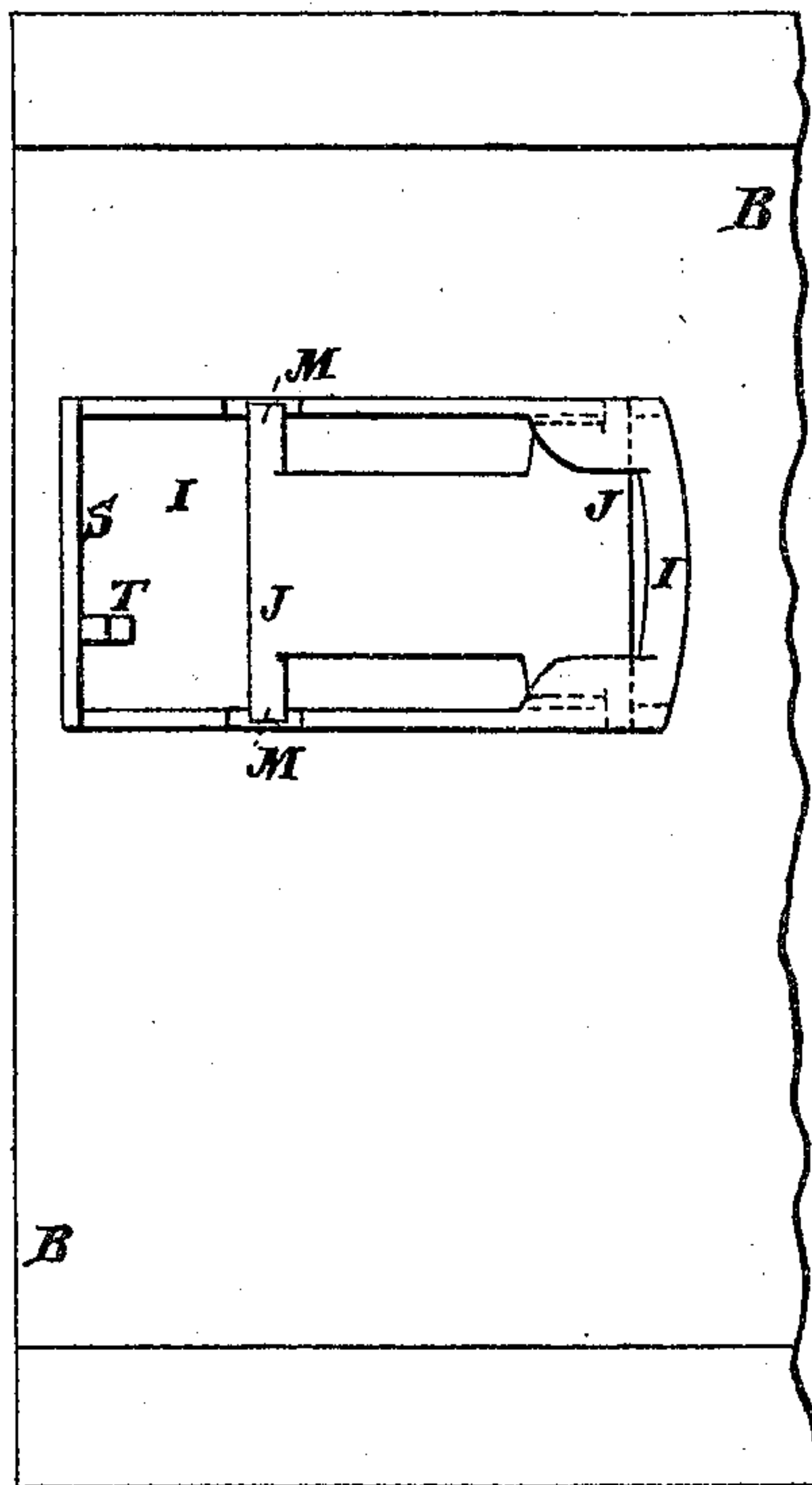
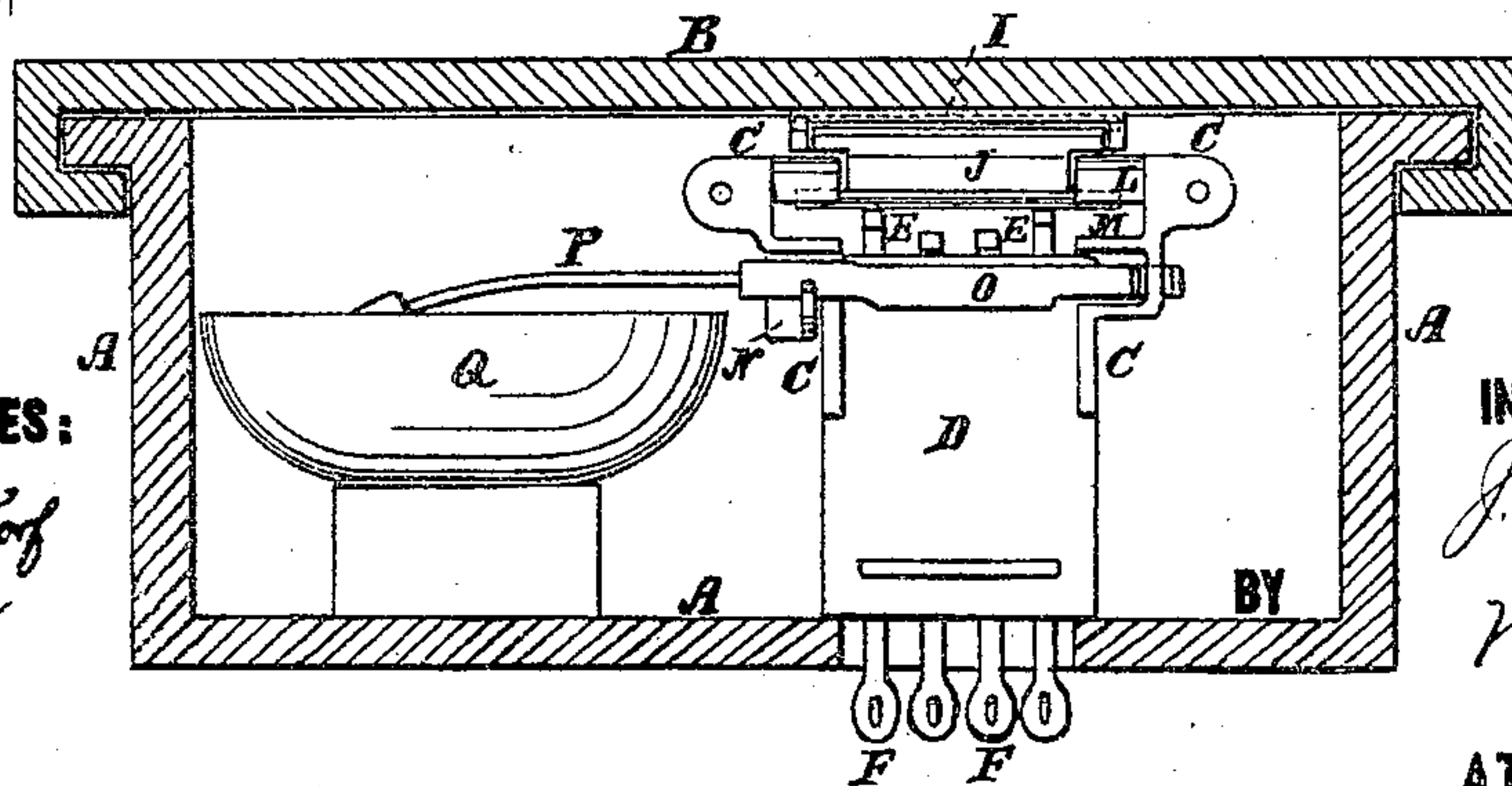


Fig. 4.



WITNESSES:

A. H. Hennrichson
C. H. Quinn

INVENTOR:

J. F. Baldwin

Wm. H. L.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN F. BALDWIN, OF NASHUA, N. H., ASSIGNOR TO HIMSELF AND MILES
ALARM-TILL MANUFACTURING COMPANY, OF PROVIDENCE, R. I.

IMPROVEMENT IN TILL-ALARMS.

Specification forming part of Letters Patent No. 145,777, dated December 23, 1873; application filed
November 1, 1873.

To all whom it may concern:

Be it known that I, JOHN F. BALDWIN, of Nashua, in the county of Hillsborough and State of New Hampshire, have invented a new and useful Improvement in Alarm-Tills, of which the following is a specification:

Figure 1 is a longitudinal section of a till to which my improved device has been applied, taken through the line *xx*, Fig. 2. Fig. 2 is a top view of the inner part of the same withdrawn. Fig. 3 is an under-side view of a part of the cover of the same. Fig. 4 is a cross-section of the same, taken through the line *yy*, Fig. 2. Fig. 5 is a detail view of the ratchet.

Similar letters of reference indicate corresponding parts.

The invention will first be fully described, and then pointed out in the claim.

A represents the till or drawer, which moves out and in upon cleats attached to the cover B, which may be a counter, table, desk, or other stationary board. The receptacle in which the bolts and levers are placed and work consists of the box C, the front and sides of which are cast in one piece, and the rear side of which is closed by the guide-plate D. The plate D and front side of the box C are made with shoulders or offsets in their middle parts, to form in the upper part a narrow space to receive the bolts, and in the lower part a wider space to receive the levers, which levers and bolts are kept in place laterally by points cast upon the inner sides of said plates. The guide-plate D has cross-flanges formed across its rear side to rest against the end of the till or drawer, and hold the said guide-plate D erect while it is held in place by the box C. The box C is secured in place by screws passing through lugs cast upon the lower edge of its front and the top of its sides, as shown in Figs. 2 and 4. E are the bolts, the bodies of which fit into the upper chamber of the box C D, and the top of which projects in front and rear to rest upon the upper edges of the box C and guide-plate D. The lower ends of the bolts E are inclined, as shown in Fig. 1, and rest upon the upper ends of the one-armed levers F. The levers F are made in the shape shown in Fig. 1. In the rear edge of the levers F is formed a notch to receive the edge of the cross-flange

G, formed upon the guide-plate D, to support the said levers and serve as their fulcrum. Upon the lower part of the single-armed levers F is cast a point to receive one end of a coiled spring, H, the other end of which is received upon a point formed upon the inner surface of the front of the box C. By this construction, when the lower parts of the one-armed levers F are held back by the springs H, their upper ends are inclined to correspond with the inclined lower ends of the bolts E. When the bolts E are so arranged that the inclination of their lower ends may correspond with the inclination of the tops of the levers F, the forward movement of the lower ends of said levers F will raise the said bolts; but when the bolts E are reversed, as shown in dotted lines in Fig. 1, the forward movement of the lower ends of the said levers F will lower the bolts E. I is a plate, which is secured to the cover B in such a position as to be directly over the parts of the alarm attached to the till or drawer A when said drawer or till is closed. To the forward part of the plate I is pivoted the forward edge of the plate J, the rear or free part of which is held down by a spring, K, placed between it and the cover B. The rear edge of the plate I, when the drawer is closed, rests upon the tops of the bolts E and against the lugs or inclines L, cast upon the upwardly-projecting sides of the box A. Upon the side edges of the rear part of the plate J are formed lugs M, of a length equal to the length of the inclined lugs L. By this construction, when all the bolts E are down, the lugs M, when the drawer or till is drawn outward, will pass out beneath the lugs L; but should the till or drawer be drawn upon without all the bolts being down, the lugs M will strike against and cannot pass the lugs L. When the drawer is pushed shut, the lugs M slide up the inclined sides of the lugs L, and drop down in front of them. N is a bent ratchet or lever-catch, which is pivoted at its angle to the upper part of the side of the box A, in such a position that the lug *n'*, formed upon the upper end of said ratchet, may project along the forward side of one of the lugs L. The lug *n'* of the ratchet N is held out from the lug L, and the other or engaging end of said ratchet

is held raised, so that its hook or catch end may catch upon the lever O, to the end of which is attached the bell-hammer P for striking the gong Q. The other end of the lever O is pivoted by being notched and inserted in a hole in the other side of the box A. The lever O is thrown back to sound the alarm, when released from the ratchet N, by one or more springs, R, interposed between it and the plate D. Upon the rear or inner end of the plate I is cast a flange, S, upon the forward side of which is formed a projection, T. By this construction, when the drawer or till is drawn upon without all the bolts E being down, the lug M strikes the lug *n'* of the ratchet N, and, releasing the lever from said ratchet, sounds the alarm. The levers F are operated by rods

U, working in guides V, attached to the bottom of the till or drawer A, and having finger-pieces W formed upon or attached to their forward ends.

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

The combination, in a till-alarm clock, of the straight bolt E, extended bar, trip J on top of drawer, and one-armed lever F, substantially as and for the purpose described.

JOHN F. BALDWIN.

Witnesses:

L. V. MURCH,
B. B. WHITTEMORE.