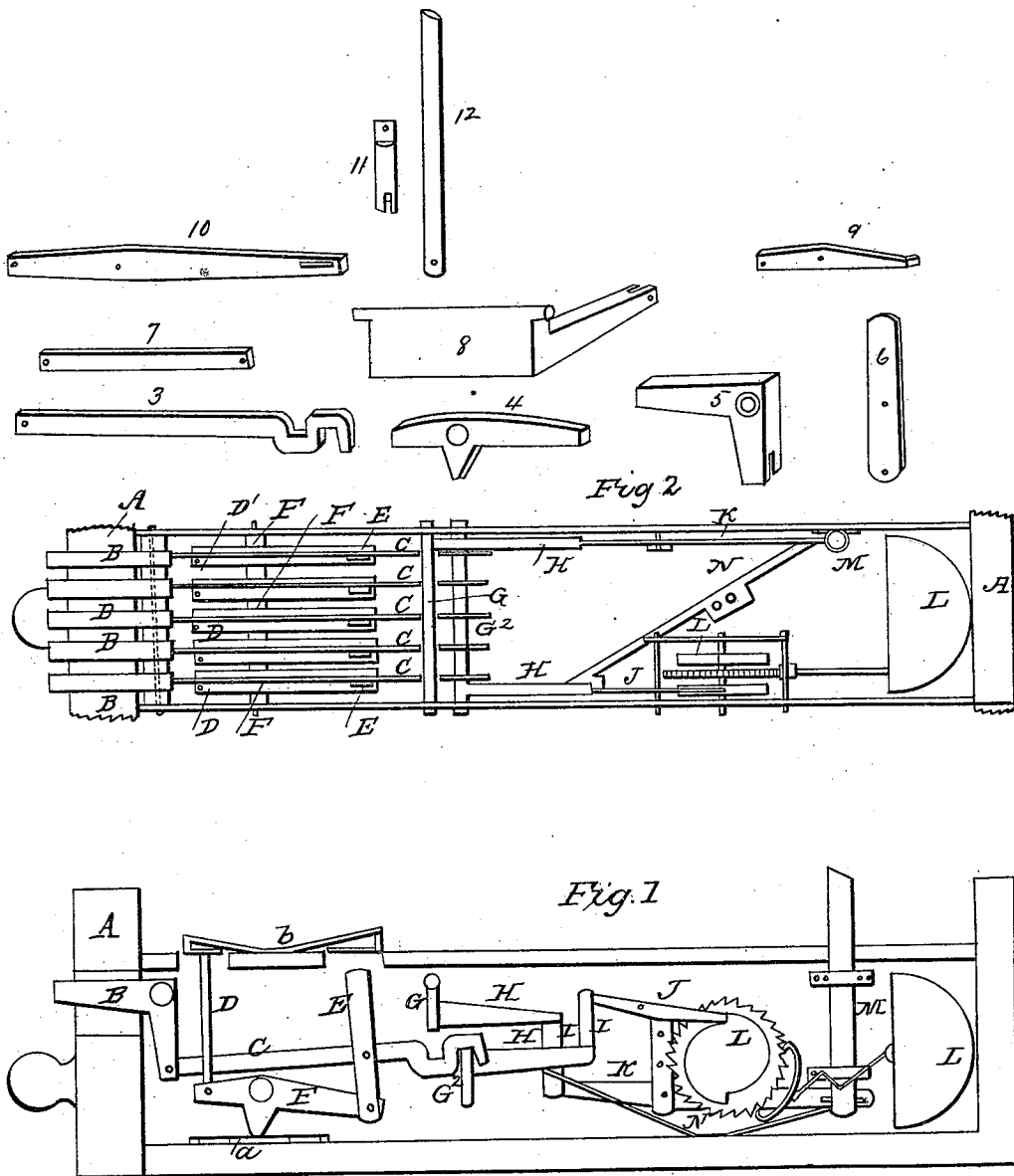


H. L. HERVEY.
Burglar Alarm.

No. 13,876.

Patented Dec. 4, 1855.



UNITED STATES PATENT OFFICE.

H. L. HERVEY, OF QUINCY, ILLINOIS.

BURGLAR-ALARM.

Specification of Letters Patent No. 13,876, dated December 4, 1855.

To all whom it may concern:

Be it known that I, HORACE L. HERVEY, of Quincy, in the county of Adams and in the State of Illinois, have invented certain new and useful Improvements in Burglar-Alarms; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

Figure 1 is a side elevation. Fig. 2 is a plan view with top removed. Figs. 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, are detached sections.

In Fig. 1, A, the drawer; B, the key lever; C, the double slotted lever; D, the stop lever for raising lever C; E, the stop lever for depressing the same; F, the fulcrum lever for the stops to rest on; G, G², flat sided levers; H, H² connecting levers; I, I, connecting links, J, log lever; K, lever extending to the bolt; L, the alarm; M, the bolt; N, the spring for raising the bolt.

Fig. 2, A, A, the drawer; B, B, B, B, B, key levers; C, C, C, C, C, the double slotted levers; D, D, D, D, D, the stop levers; E, E, E, E, E, the stop levers; F, F, F, F, F, the fulcrum levers; G, G², flat sided levers; H, H², connecting levers; L, the alarm works; M, bolt; N, the double spring.

Fig. 3, double slotted lever; 4, the fulcrum lever; 5, a key lever; 6, one of the stops; 7, spring on which fulcrum lever F rests; 8, a flat sided lever G, with arm attached; 9, dog lever; 10, connecting lever to the bolt; 11, connecting links; 12, bolt. I sometimes propose using springs as shown at letter b, Fig. 1.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

In constructing my machine I make my levers, stops, and bolts out of any suitable material, either brass, steel, or iron. They may be cast, or I can construct them of thick sheets of metal, and rods of the same. I now arrange spring *a*, Fig. 1, as the foundation of my apparatus on two blocks, one at each end, thus elevating it one half of an inch from the bottom of the drawer. The fulcrum levers F, F, F, F, F, rest on these springs, which springs keep the fulcrum levers always in the proper positions. The stops levers D's and E's are attached to the fulcrum levers F, F, F, F, F, and also to the slotted levers C, C, C, C, C, which are connected to levers B, B, B, B, B. The flat sided levers G, G², are connected to the

alarm L, and bolt M by the connecting levers H, H², and links J, J.

The alarm is constructed of any ordinary clock arrangement for ringing a bell, to which I attach a stop catch or wheel with a catch in it, into which dog J falls.

When I wish to connect the machine, that is, the bolt and alarm, with levers B, B, B, B, B, I press down stops E, E, E, E, E, which press levers C, C, C, C, C, down on lever G² until it is firmly grasped in the slot fitting over it; this connects with the alarm. I then press levers D back and this raises levers C until the upper slot fits on lever G thus connecting with bolts M.

In the operation of my invention when I wish an alarm given by any one attempting to open the drawer, I press down on a stop lever C, until the slot in it fits down closely on the flat sided lever G². This connects the alarm with the key levers B. In this way I set all the levers C, in connection with the alarm except one. This one is then placed in connection with the bolt by pressing on a stop D which causes a slotted lever C to fit closely to lever G. If any one now attempts to open the drawer, unless he knows which one of the keys is set to the bolt he will be likely to ring the bell and give the alarm, as the chances are all save one in favor of giving the alarm. The levers C, can all be raised if I choose, and then no alarm is given in opening the drawer.

The spring *a* on which fulcrum levers F operate is so arranged that as the stops D, D, D, D, and E, E, E, E, E, are pressed down alternately the point of bearing of the fulcrum is changed, yet the pressure of the spring *a* is always against the point of bearing, keeping it always at the required position, and holding the levers C in the proper place.

Having thus fully described the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent is:

The combination and arrangement of levers F, springs *a*, stop levers D and E, slotted levers C, key levers B, flat sided levers G, G², connecting levers H, H², and links J, varying the alarm at pleasure by means of the stop levers D and E, and for drawing the bolt, as herein described.

HORACE L. HERVEY.

Witnesses:

J. C. CLAYTON.

T. G. CLAYTON.