

GEORGE W. LOVE.

Improvement in Burglar-Alarms.

No. 127,421.

Patented June 4, 1872.

Fig. 1.

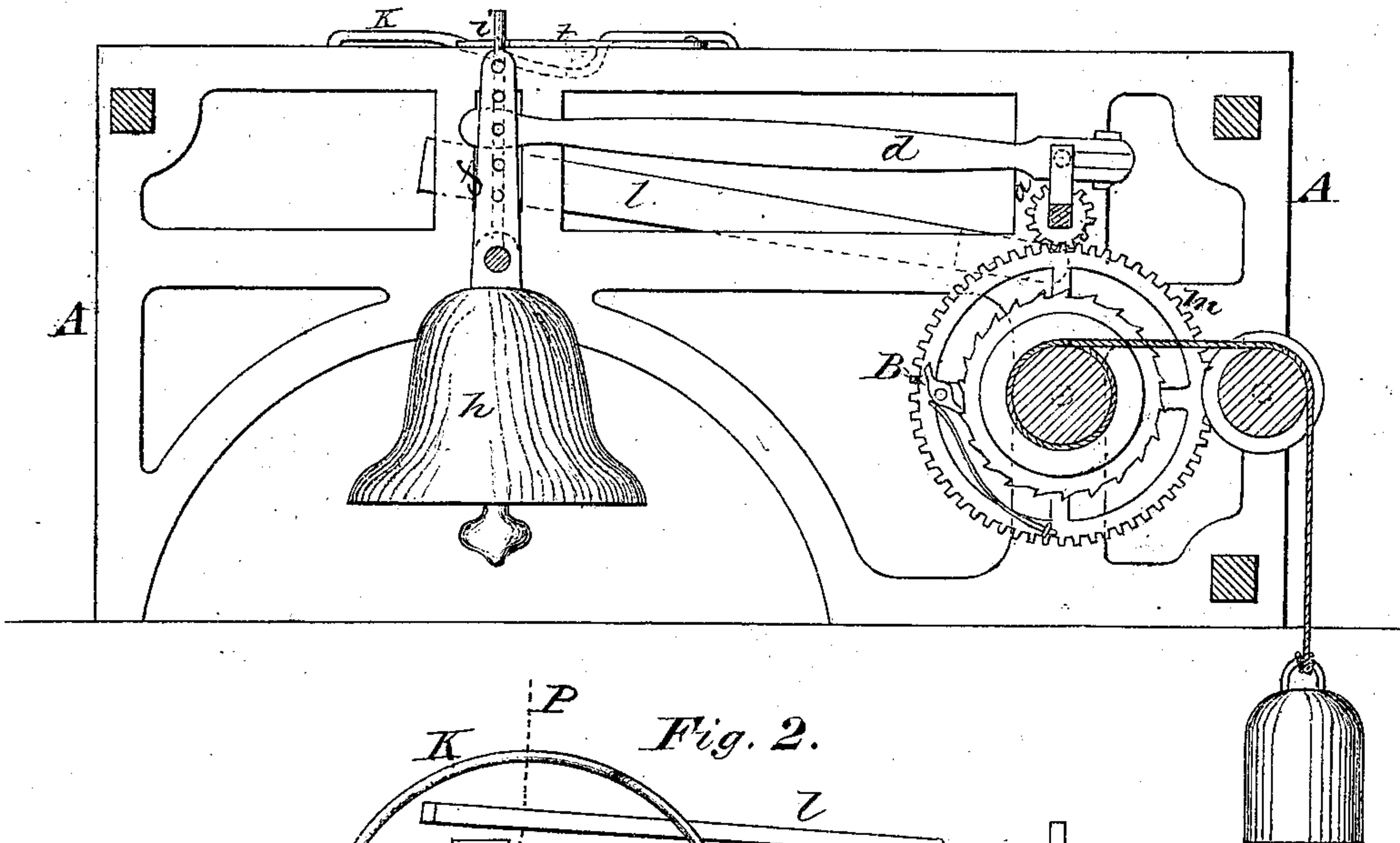


Fig. 2.

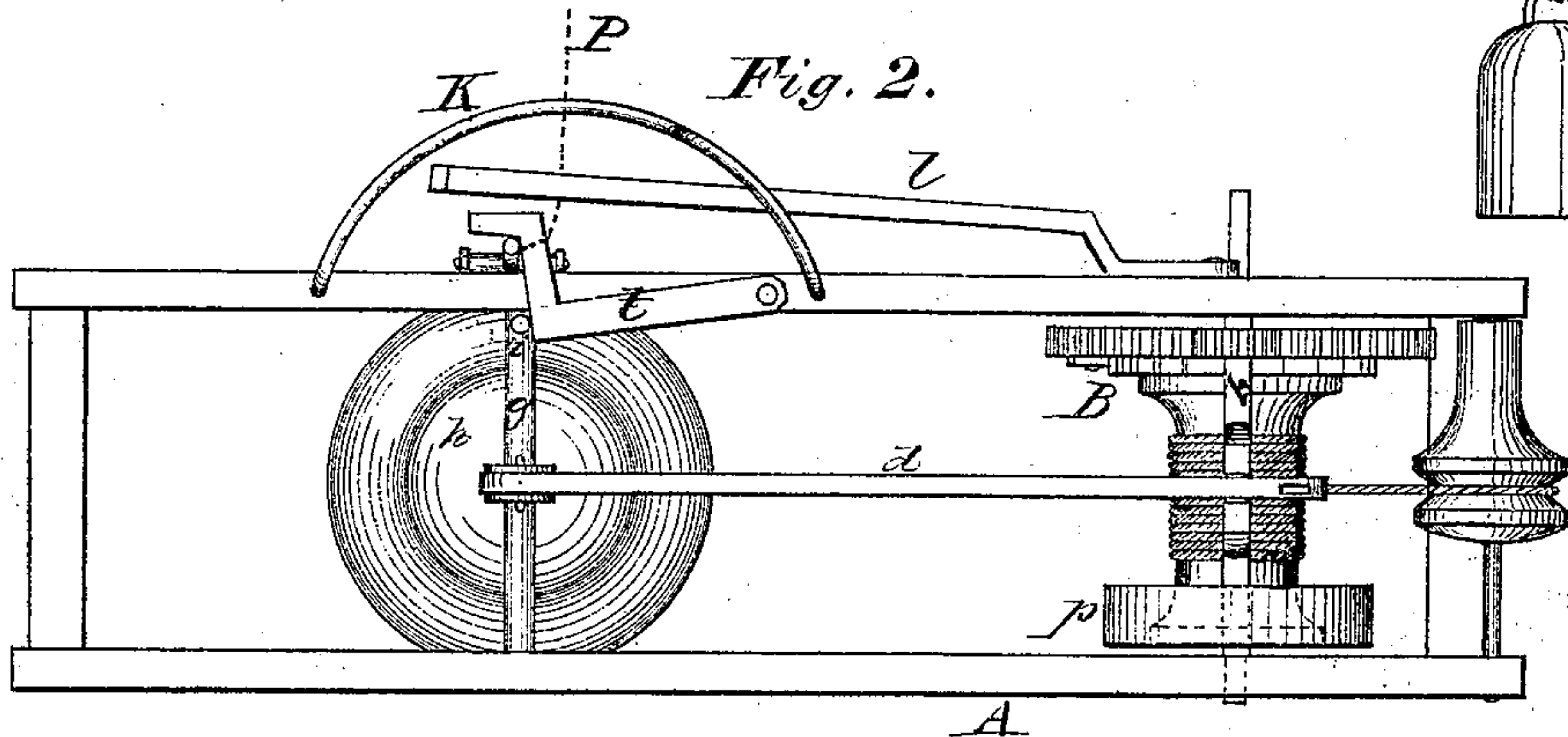
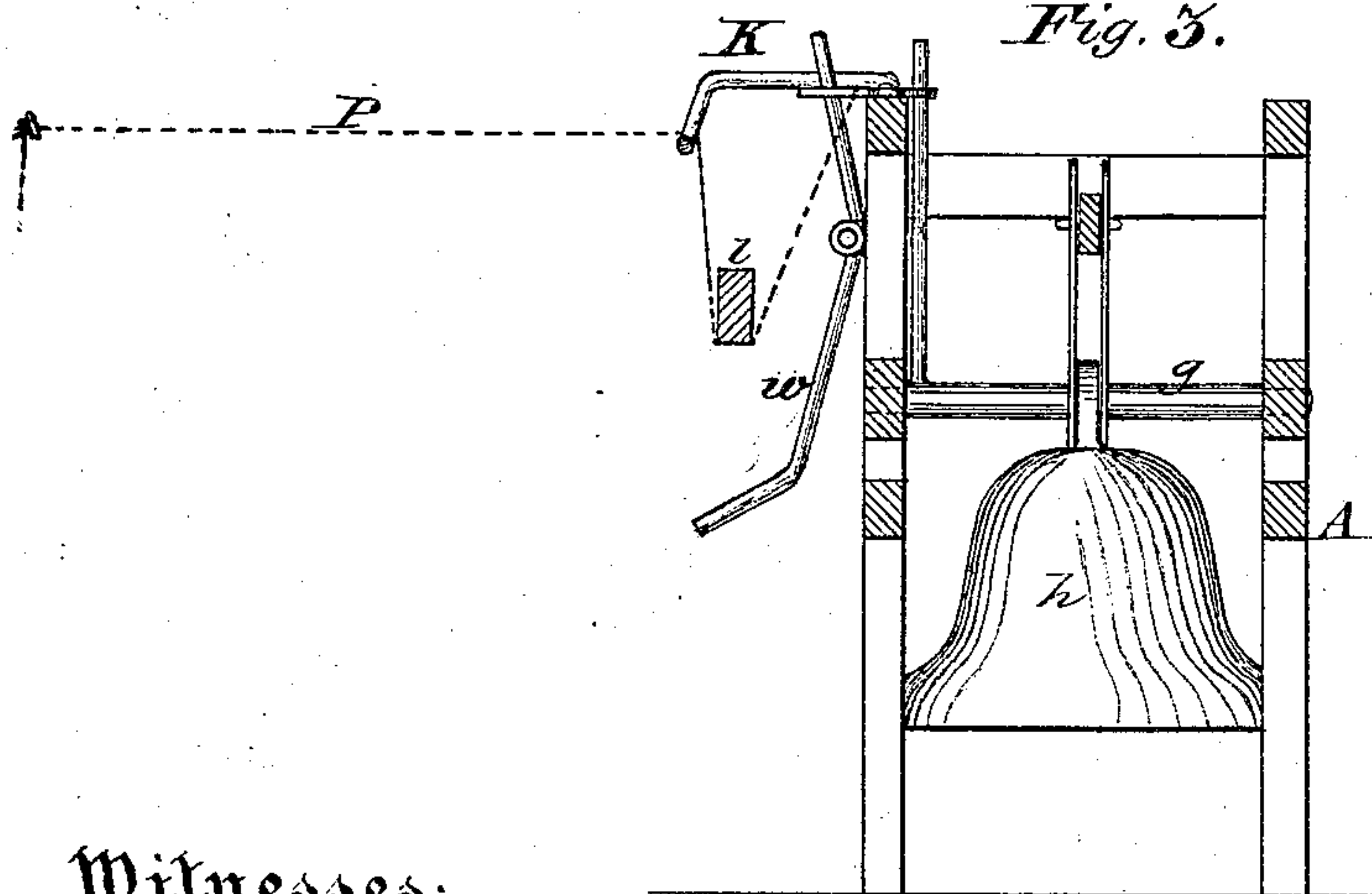


Fig. 3.



Witnesses:

C. Henry Bennett

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UNITED STATES PATENT OFFICE.

GEORGE W. LOVE, OF OWASSO, MICHIGAN.

IMPROVEMENT IN BURGLAR-ALARMS.

Specification forming part of Letters Patent No. 127,421, dated June 4, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, GEORGE W. LOVE, of Owasso, in the county of Shiawassee, in the State of Michigan, have made and invented a new and useful Improvement in Burglar-Alarms, which I call "The Burglar's Match;" and I hereby declare the following to be a full and exact description of the same, reference being had to the accompanying sheet of drawing which forms a part of this specification, and in which—

Figure 1 is a longitudinal vertical section, partly in elevation. Fig. 2 is a top or plan view, and Fig. 3 is a vertical cross-section.

My invention relates to that class of burglar-alarms which are portable and may be placed and set in any building or any part of a building, at pleasure. My apparatus is so constructed that it is set off either by pulling or cutting the cord which operates the detent that holds the apparatus from operating. The following description will enable any one skilled in the art to make and use my invention.

In the drawing, A is a frame of metal or wood in which the parts of the apparatus are fixed. B shows the motive power, which is similar to the ordinary clock movement, and is operated either by a weight or by a spring. In the drawing this device is shown as operated with a weight. Over the driving-wheel *m*, which is moved by the weight or spring and gearing with it, is a pinion, *a*, upon a crank-shaft, *b*. The crank-shaft has a fly-wheel, *p*, and works the pitman *d*, which connects with and operates the bell *h* by its handle, *f*. On the top of the frame is fixed a pivoted detent or catch, *t*, which, placed as shown in Fig. 2, holds the bell-crank by the stop or pin *i*. On the side of the frame is a bent lever-trip, *w*, pivoted to the side of the frame. A heavy bar, *l*, is also pivoted to the side of the frame, so that when the lever *l* falls it will press against the lever *w* and cause the detent *t* to be released. A guard, *k*, surrounds the devices, which compose the means for setting off the alarm.

The method of setting and using this ap-

paratus is as follows, viz.: The weight or spring is wound up, the detent *t* being placed so as to hold the stop *i* to prevent the motion of the bell-crank. A cord, P, is fastened to the detent, *t*, and passed under the bar *l* and over guard *k*, so as to support bar *l* and keep it from falling against the lower end of lever *w*. The other end of cord P is fastened to any object in the room to be protected, or to the door, window, or other object. The cord P may be extended to a number of different objects, so that the movement of any one of them will pull the cord so as to release the detent *t* so as to free the stop *i*. The weight or spring will then start the wheel *m*, which will turn the pinion *a* on the crank-axle *b*, which again operates the pitman *d* and sets the bell to ringing, which will continue till the weight or spring is run down.

By placing this apparatus in a room it is protected not only against burglars, but also against fire; for if fire breaks out in the room the cord will be burnt, the heavy bar will then drop and strike the lever *l*, which will release the detent *t* and set off the alarm.

Persons traveling can use the apparatus and set it in any part of their room desired; and instead of only one bell, as shown, a series of bells may be arranged in different rooms, all to be set ringing by the release of one detent either by pulling, cutting, or burning the cord.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The combination of the bar *l* with the detent *t*, by means of cord P; as set forth.
2. The combination of stop *i*, detent *t* with cord P and pivoted lever *w*, as set forth.
3. The bar *l* and pivoted lever *w*, arranged as described to release the detent *t* when cord P is severed, as set forth.
4. The guard *k*, bar *l*, detent *t*, and stop *i*, arranged and combined as set forth.

GEORGE W. LOVE.

Witnesses:

JAS. A. BEEBE,
JAMES MACK.