

McELROY & HOLLY.

Burglar Alarm.

No. 85,321.

Patented Dec. 29, 1868.

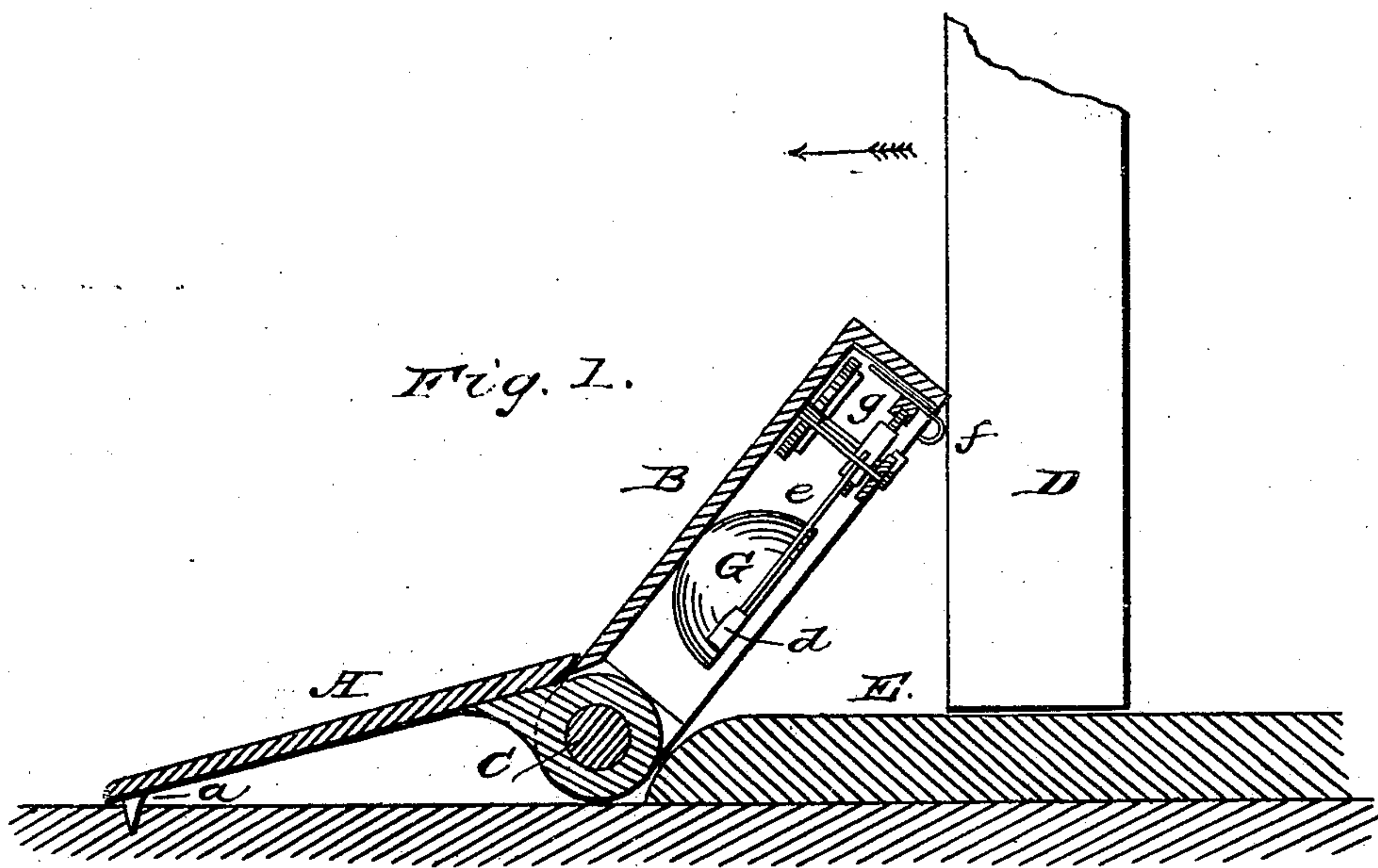
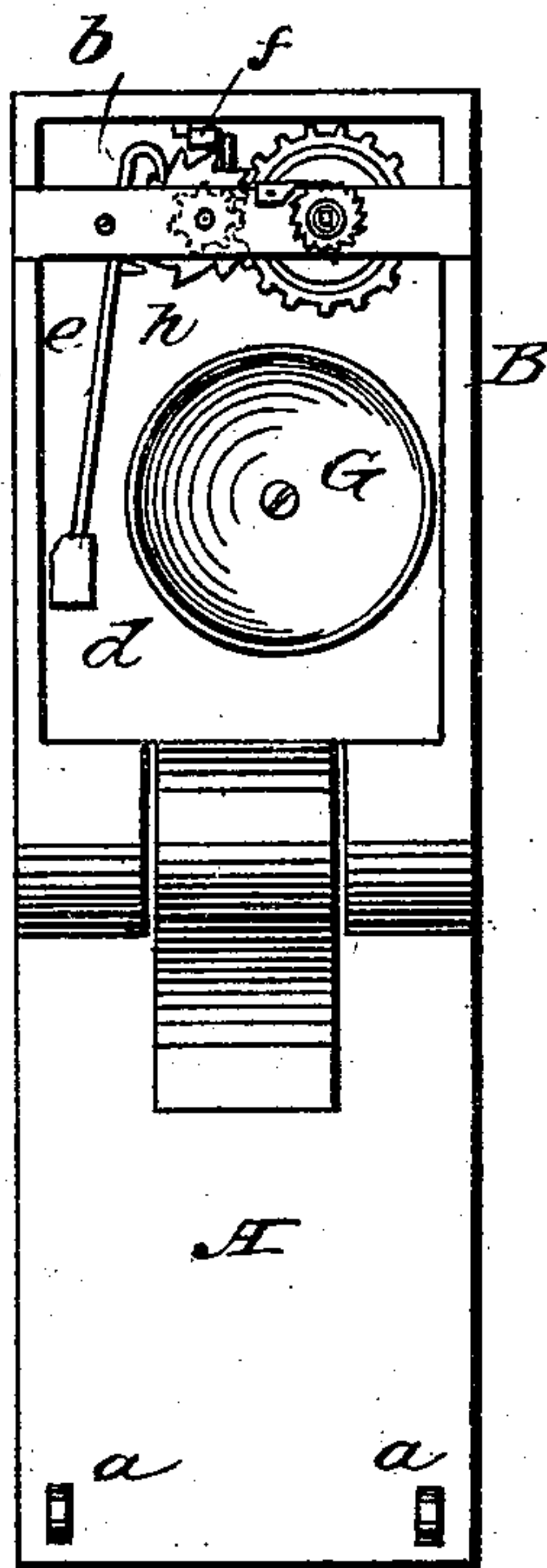


Fig. 2



witnesses
Wm A Morgan
Chas E Cotton

Inventor
J H McElroy
J H Holly
per Minnells
Attorneys

United States Patent Office.

J. H. McELROY AND JAMES H. HOLLY, OF WARWICK, NEW YORK.

Letters Patent No. 85,321, dated December 29, 1868.

IMPROVEMENT IN DOOR-FASTENER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that we, JAMES H. McELROY and J. H. HOLLY, of Warwick, in the county of Orange, and State of New York, have invented a new and improved Door-Fastener; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a sectional elevation of my invention, showing its position at the bottom of the door, when used in fastening the same.

Figure 2 is a front view of the invention, showing the alarm-mechanism more clearly.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a means of fastening doors from the inside, and is intended as a fastening for sleeping-rooms, so that burglars may not enter without forcing the door, and may not attempt to enter without alarming the occupant of the room.

It consists, first, of two short plates of metal, hinged together by means of a strong pintle or other hinge, and so fitted that the said plates, when opened to their fullest extent, will make with each other an obtuse angle, which adapts it to the best holding position at the foot of the door, as will hereinafter be more fully set forth.

It also consists, in connection with the above, of a bell-dial, and its accessory alarm-mechanism, actuated by a spring, which mechanism is set in operation by the pressure of the door on a trigger or catch, when the door is pushed inward, in the attempt to open it.

The principal merits of this fastener, are, first, that it is thoroughly effective in holding the door closed against any attempt to open it from without; second, that in setting it the door-casing or door is not sprung, bruised, or marred, as is the case with those analogous fasteners, which are jammed in between the door and the casing, as will be seen from the following specific description.

In the drawings, A and B are the two plates of the fastener, hinged together on the pintle C, and so fitted at the hinge as to form the angle shown when opened back upon each other to their fullest extent. Sharp-pointed studs *a a*, near the end of the plate A, serve to hold the fastener in place against the foot of the door.

The front upper corner of the plate B will be presented against the door in the manner shown, and when so presented, will act as a prop or stay to prevent the door from being opened.

Most all doors close upon a threshold-board, E, and our invention is designed to rest, when set, with the hinge upon this threshold-board, when the latter is not too thick to prevent the upper front corner of the plate B from being presented to the plane of the door at the proper angle to avoid slipping.

When, however, this board is too narrow or too thick, the hinge is rested against the edge of the said board, as shown in the drawings.

It will be seen that this fastener is adapted to most doors, whether with a wide, narrow, thick, or thin threshold-board, or without any.

The angle which the plates make with each other, when opened to their fullest extent, is about one hundred and twenty degrees, as shown in the drawings, so as to present the plate B in the proper relation to the door D.

The plate B, when intended to contain the alarm-mechanism, is formed with a box-cavity, the said plate being preferably cast in that form, and the plate A then serves as a lid to close the cavity, the whole operating as a box.

The alarm-mechanism shown, is simple and effective, consisting of a spring-barrel containing a spring, and provided with a toothed rim, which engages with a pinion on the shaft of the escape-wheel *h*.

The pallet-plate *b* is affixed to a stem, *e*, terminating with a clapper, *d*. When the escape-wheel revolves, its teeth act alternately upon the pallet-ends of the plate *b*, and vibrate it, which causes the clapper to strike rapidly upon the bell-dial G, affixed within the box in any suitable manner.

The spring is wound with a key set on its arbor in the usual manner.

The alarm-mechanism is set for operation by a catch, *g*, sliding in proper guides.

It is provided with an extension, *f*, which projects out from the box in the manner shown, when the catch *g* is brought between the teeth of the escape-wheel *h*, in the manner shown.

Now, when the door is being pressed upon, it bears against the extension *f*, the catch *g* is pushed backward clear of the teeth of the wheel *h*, and the wheel is permitted to revolve, which sounds the alarm, as before described.

In setting the fastener to the door, the part *f* of the catch must not quite touch the door, lest it should be moved back, when the studs *a a* are pressed down into the floor. A slight pressure of the foot upon the plate A, is sufficient to set the studs into the floor, thus setting the fastener firmly in place.

When the alarm-mechanism is not desired, it can be left out and the cavity used for a match-box or tobacco-box.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The combination of the door-fastener A B *a* and the alarm-mechanism, constructed substantially as shown and described, for the purpose specified.

The above specification of our invention signed by us, this 10th day of _____, 1868.

J. H. McELROY.
JAS. H. HOLLY.

Witnesses:

FRANK BLOCKLEY,
E. G. COLLINS.