

(Model.)

J. J. HALL.

MEANS FOR WITHDRAWING LATCH BOLTS.

No. 304,192.

Patented Aug. 26, 1884.

Fig. 3.

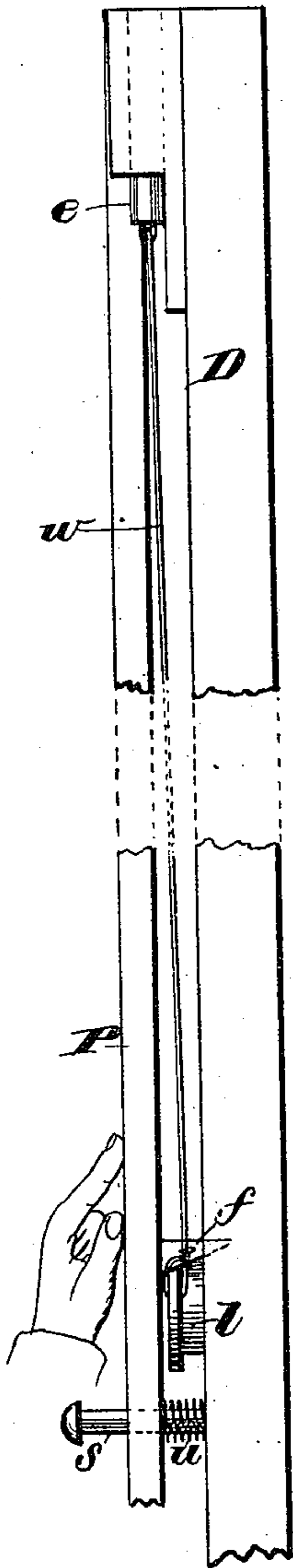


Fig. 1.

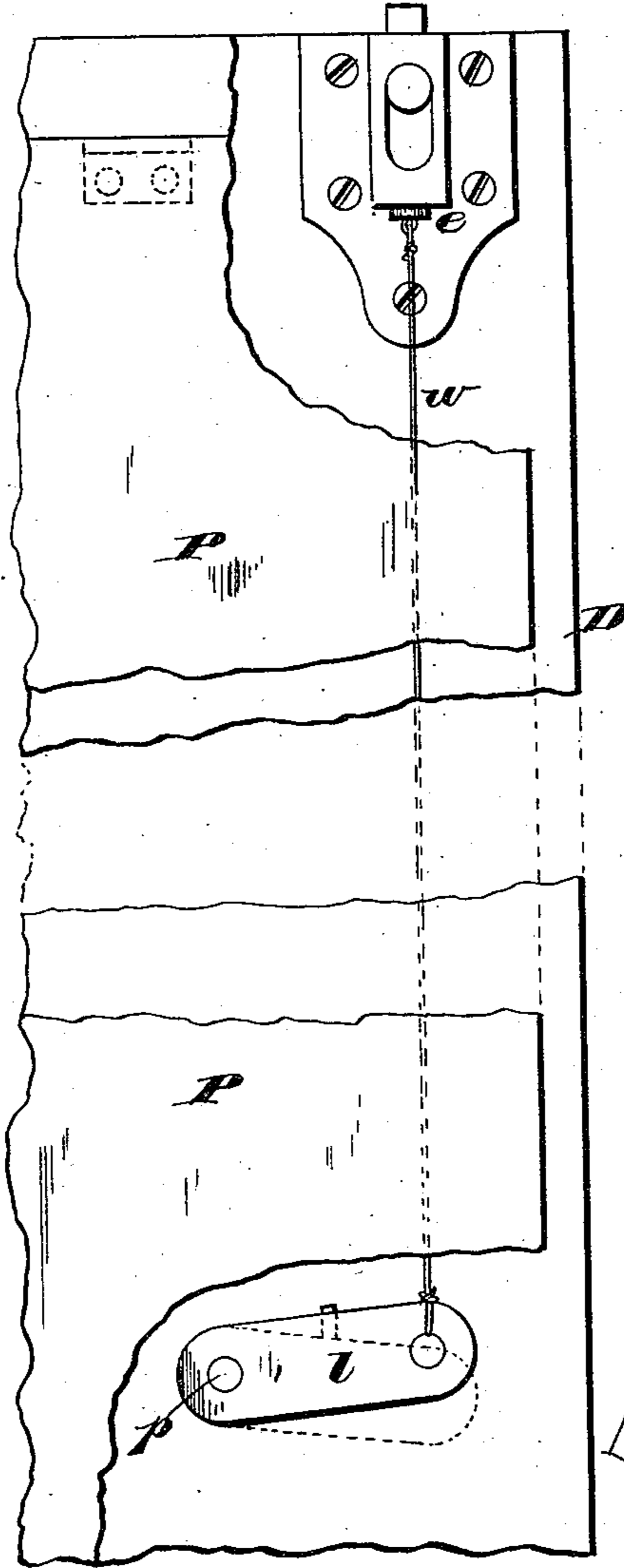


Fig. 2.

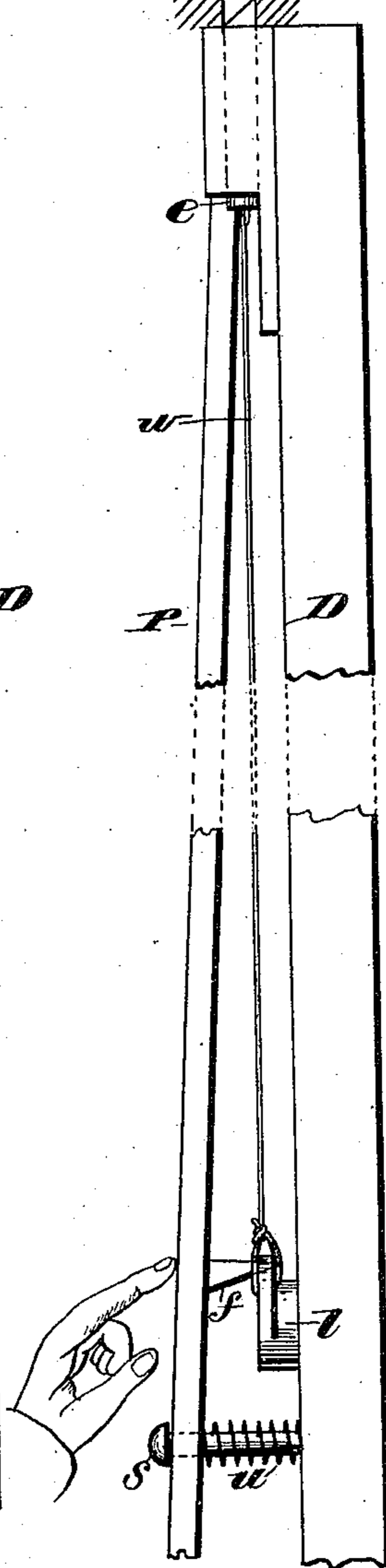
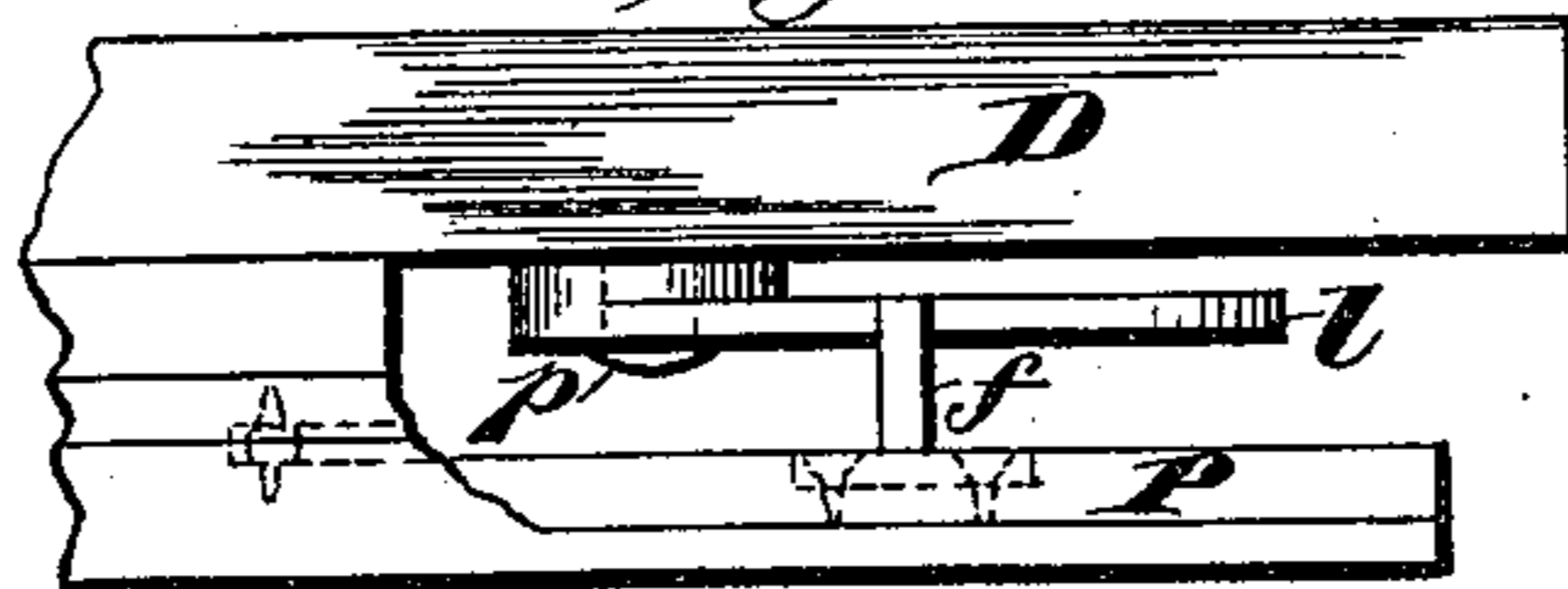


Fig. 4.



Witnesses,
Robert Everett,
Attest

Inventor,
James J. Hall.
By *Van Santvoord & Hauff*
Attys.

UNITED STATES PATENT OFFICE.

JAMES J. HALL, OF BROOKLYN, NEW YORK.

MEANS FOR WITHDRAWING LATCH-BOLTS.

SPECIFICATION forming part of Letters Patent No. 304,192, dated August 26, 1884.

Application filed October 22, 1883. (Model.)

To all whom it may concern:

Be it known that I, JAMES J. HALL, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a Safety Attachment for Doors of Public Buildings, of which the following is a specification.

The object of my invention is the construction of a device which, attached to a door, will enable any one to open it by exerting a slight pressure upon the inner side of it, thus affording a ready exit to people assembled in public buildings when, in case of a panic, they all rush to the doors before any one can unlock them, and, crowding there, make the opening of the doors an impossibility.

The object in view is attained by a mechanism illustrated in the accompanying drawings.

Figure 1 of the drawings is a front elevation of a door with my invention applied thereto, parts being broken away. Fig. 2 is a side view of the same, showing the position of parts when the door is locked; Fig. 3, a similar view showing position of parts when the door is unlocked. Fig. 4 is a plan view with parts broken away.

A wire, *w*, is fastened to the end *e* of the bolt of any spring-latch intended to lock a door, *D*, and attached at its other extremity to a lever, *l*, which moves on the pivot *p*, set in the door, Fig. 1. This lever is acted upon by the wedge *f*, fastened to a movable piece, of any material or shape, hinged upon the door or fastened in any way allowing it to yield to a pressure upon its surface. (A panel hinged to the upper part of the door, seeming preferable, has here been adopted.) This panel *P* is kept in its proper position by a set-screw, *s*, and the spring *u*, which allows to regulate the pressure necessary to move the panel. If, as shown in Fig. 2, we press upon the panel at any point, the latter, moving under the pressure,

will cause the wedge *f* to act upon the lever *l*, push it down, and, communicating its movement to the bolt *e* through the wire *w*, which connects lever and bolt, draw the latter from its nose-plate. This movement completed is shown in Fig. 3, where the lever is shown as brought down to the lower position shown by the dotted figure in Fig. 1, and the bolt is pulled back completely, allowing or causing the opening of the door. While the motion of the panel can be communicated to the bolt by several devices, I have chosen for this specification the one which seems simplest to me.

The movable piece *P*, which, for convenience, I will designate a "plate," whatever be its form or construction or the material of which it is made, has, for purposes of illustration, been shown as a wooden panel, because, as it covers the whole door, it affords greater security and safety.

Having described my invention and set forth its merits, what I claim is—

1. The combination, with a door and a locking-bolt therefor, of a lever connected with the bolt, and a plate or panel having a hinged connection with one surface of the door and provided with an attached cam projection acting on the lever to move it and retract the bolt when the plate or panel is pressed toward the door, substantially as described.

2. The combination, with a door and a spring-bolt attached thereto, of a pivoted lever connected with said bolt, a movable plate attached to said door and provided with a cam projection adapted to bear on said lever and retract the bolt when the plate is moved, and a spring to restore said plate to its normal position, substantially as described.

JAMES J. HALL.

Witnesses:

F. C. WHERLEY,
ALBERT G. McDONALD.