

H. W. SABIN & G. DREW.
 SPRING BUTT FOR HANGING DOORS, &c.

No. 7,957.

Patented Feb. 25, 1851.

Fig. 1.

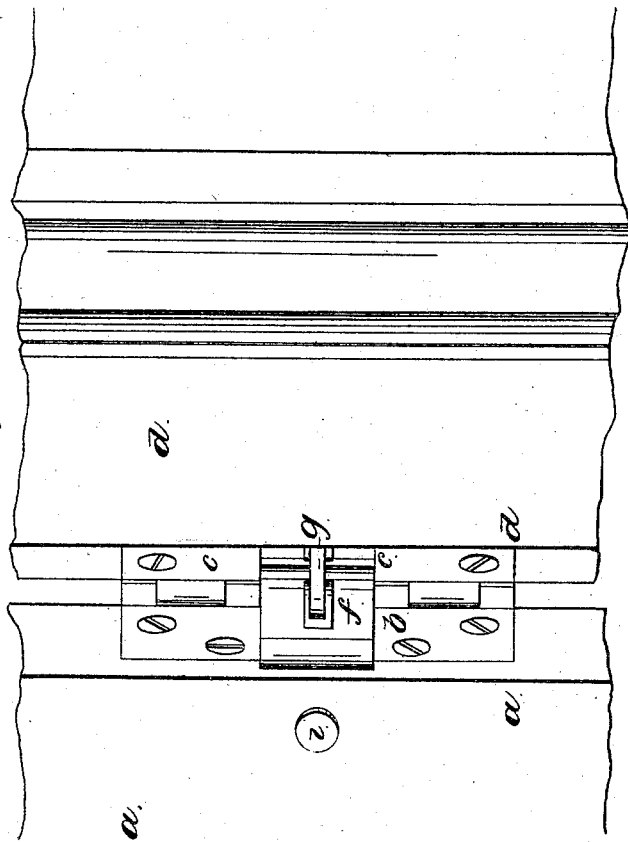
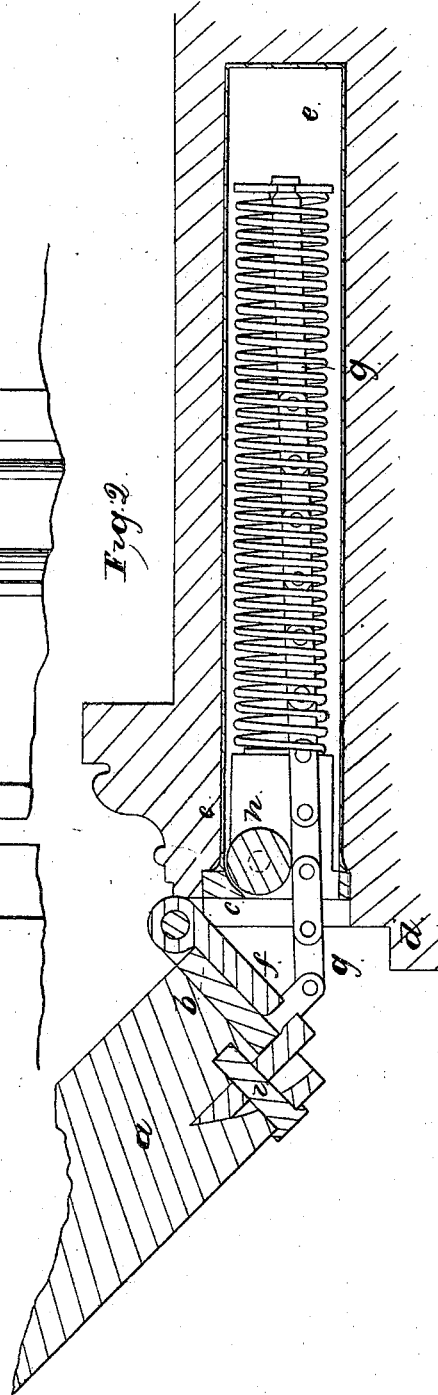


Fig. 2.



UNITED STATES PATENT OFFICE.

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SPRING-HINGE.

Specification of Letters Patent No. 7,957, dated February 25, 1851.

To all whom it may concern:

Be it known that we, HARVEY W. SABIN and GEORGE DREW, of Canandaigua, in the county of Ontario and State of New York, have invented certain Improvements in Door-Spring Butts, and that the following is a full, clear, and exact description of the principle or character which distinguishes them from all other things before known and of the usual manner of making, modifying, and using the same, reference being had to the accompanying drawings, of which—

Figure 1 is a view of the spring butt partly open and Fig. 2 a section of the same.

Our improvement consists in the combination of a door hinge and spring, having a piece in the middle of the hinge, working on the same center but independent of either wing, to which piece on one side the helical spring is attached, and on the other side a projection with a hole therein, by means of which and a pin the spring can be engaged and disengaged when the door is shut, by simply inserting or withdrawing the pin, without putting on additional tension in the one case, or slacking the spring in the other. Thus the action of the spring may be used or dispensed with, and the door made self closing or not, as may be required, at any moment.

In the drawings (*a*) is the door to which is screwed one wing of the hinge (*b*), the other wing (*c*) being screwed to the door

jamb (*d*). On the back of the wing (*c*) and running back into the door jamb, is a tube (*e*) containing a helical spring, one end of which is secured to the tube and the other to the piece (*f*) in the middle of the hinge (working on the same pin as the wings but independently of them) by a flat link chain (*g*) passing over a small anti friction roller (*h*) set in the wing (*c*). When it is desired to make the spring act so as to close the door, the piece (*f*) is fastened to the door, by inserting the pin (*i*) when the door is closed, which causes the chain to be drawn out, and compresses the spring when the door is opened. But if the action of the spring is not desired, the pin (*i*) is withdrawn, and the hinge then acts alone, without the spring.

Having thus described our improvements what we claim as new therein and desire to secure by Letters Patent is—

The piece (*f*) to one side of which the spring is attached, and which has on the other side a projection with a hole therein, by means of which and a pin the spring can be engaged and disengaged when the door is shut, substantially in the manner and for the purposes described.

HARVEY W. SABIN.
GEORGE DREW.

Witnesses:

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