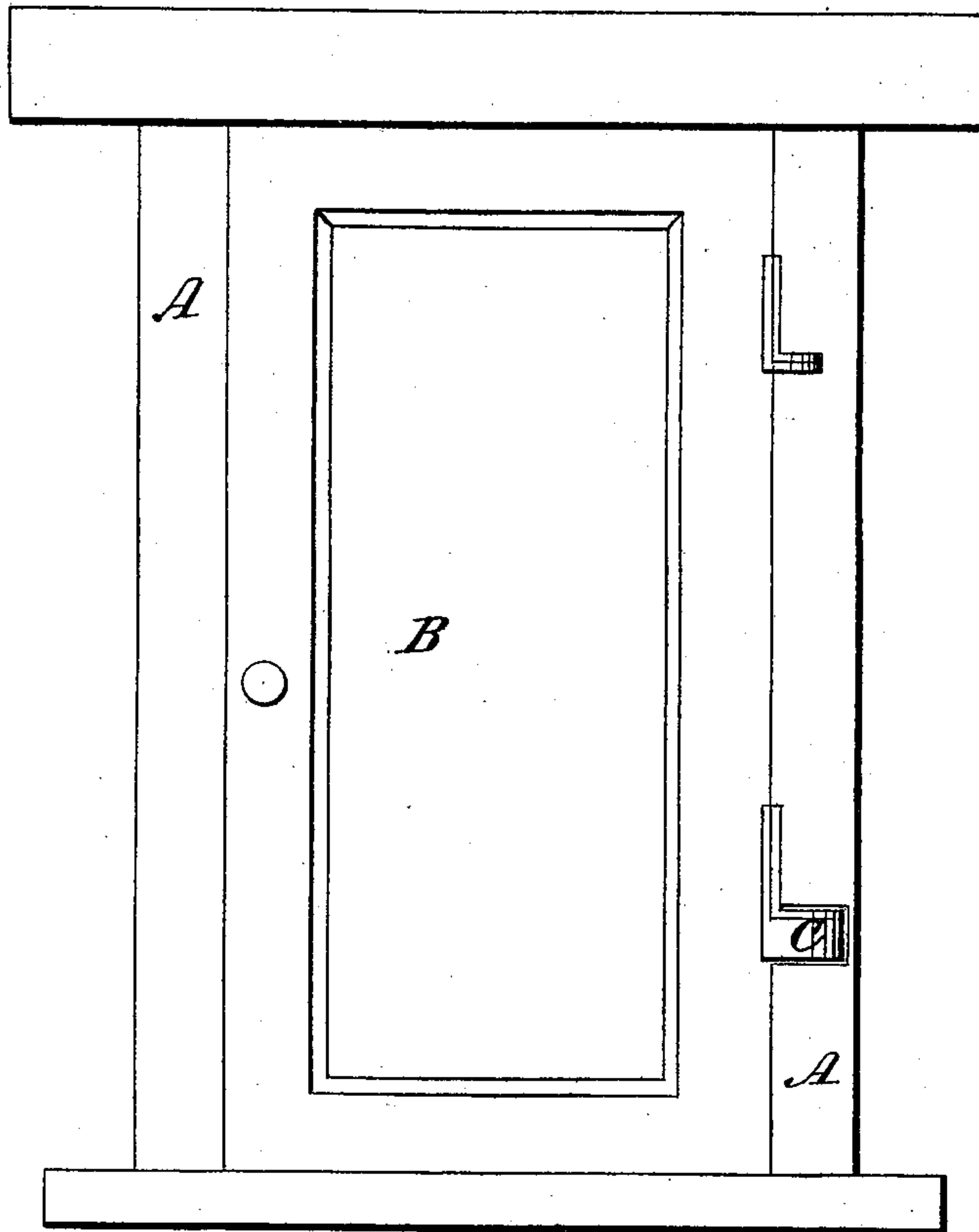


*M. Bush.*  
*But Hinge.*

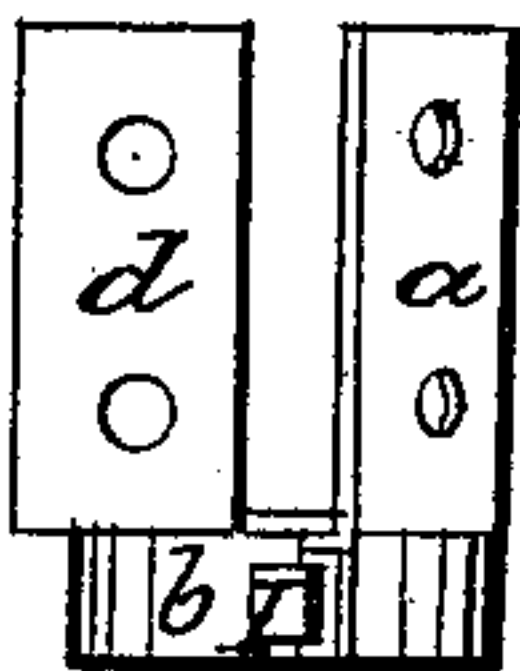
*N<sup>o</sup> 89,464.*

*Patented Apr. 27, 1869.*

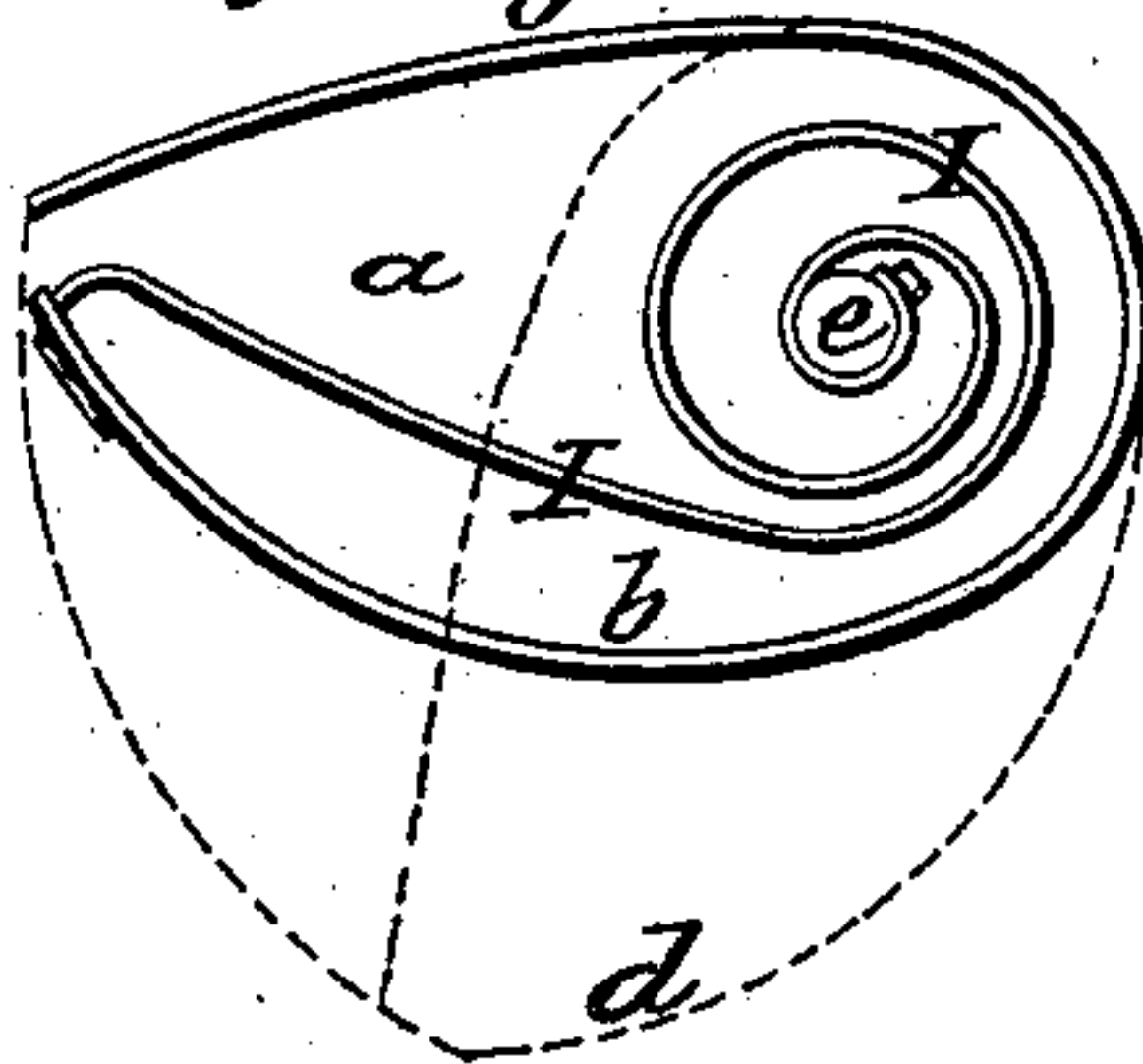
*Fig. 1.*



*Fig. 2*



*Fig. 3. b*



Witnesses.  
*Leopold Green.*  
*Al. Mahman.*

Inventor.  
*for M. Bush.*  
*Alexander & Mason.*  
*Atty.*

# United States Patent Office.

MICHAEL BUSH, OF BLOOMINGTON, ILLINOIS.

Letters Patent No. 89,464, dated April 27, 1869.

## IMPROVEMENT IN BUT-HINGES.

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

To all whom it may concern:

Be it known that I, MICHAEL BUSH, of Bloomington, in the county of McLean, and in the State of Illinois, have invented certain new and useful Improvement in Hinges; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the construction of a but or hinge, with a spring inside thereof, in such a manner that the door or gate to which it is attached will shut itself by a slow and easy motion.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a front view of a door and frame with my hinge attached;

Figure 2 shows the hinge nearly open; and

Figure 3 is an inside view, showing the attachment of the spring.

A represents a door-frame;

B, the door; and

C, the hinge; the frame and door being constructed in any of the known and usual ways, of any material and dimensions required.

The hinge is constructed of two parts, the part attached to the door consisting of a plate, *a*, which is secured to the edge of the door, and at one end bent at right angles, forming the top of a box, the sides of which are formed by a rim, *b*, firmly secured to the edges of said top.

The other part of the hinge consists of a similar

plate, *d*, secured to the door-frame, and bent in like manner, and this piece, thus bent outward, is of exactly the same size as the box mentioned.

A pin, *e*, is secured to the bent plate *d*, and passes through the top of the box, into the same.

To this pin a spring, *I*, is fastened, the other end of which is secured in a notch on the side *b*, in such a manner that when the door is opened the spring, so to say, winds up on the pin *e*, and as soon as the pressure is removed from the door, the spring, in unwinding, will turn the door till it is closed.

The bottom of the box is provided with a cover, so that no dirt, water, &c., can get into it.

The hinge may, of course, be turned in any way desired, so that the top may become the bottom.

If desired, a series of notches may be cut in the sides *b*, so that the spring *I* may be strengthened or released at pleasure, thereby increasing or diminishing the force by which the door is shut.

Having thus fully described my invention,

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

The arrangement of the L-shaped plate *a*, and its box *b*, enclosing spring *I*, and the angular L-shaped plate *d*, and its pintle, when said plates *a* and *d* are each formed of one piece of metal, all constructed as and for the purposes specified.

In testimony that I claim the foregoing, I have hereunto set my hand, this 6th day of July, 1868.

MICHAEL BUSH.

Witnesses:

S. OBERMAYER,

JOHN T. WALTON.