

A. Miskler,

Door Spring.

No. 102029.

Patented Apr. 19. 1870.

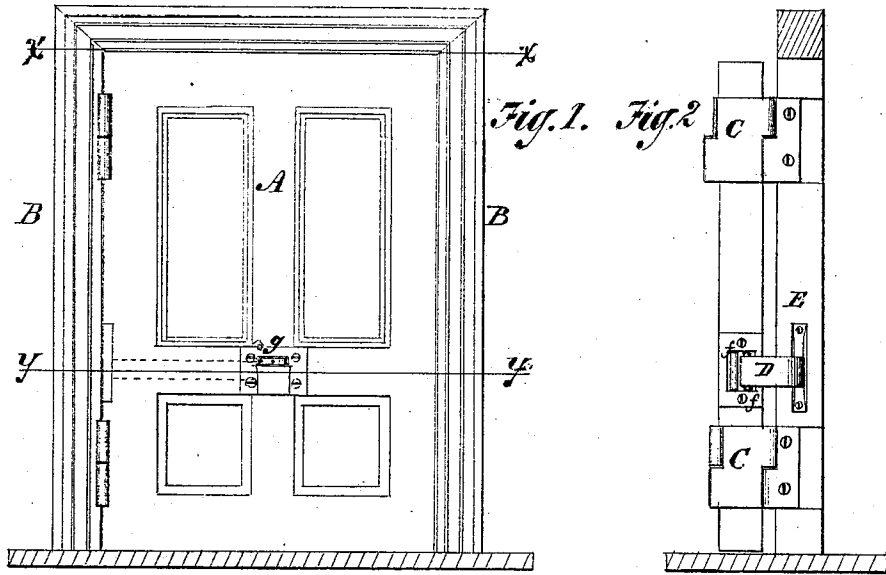


Fig. 3.

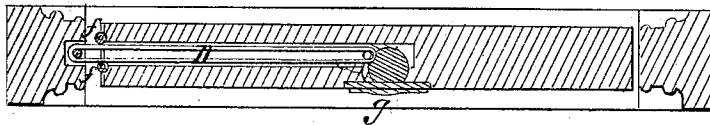
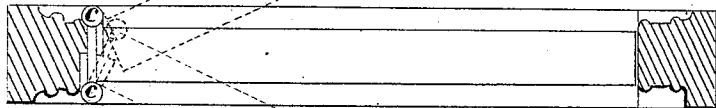


Fig. 4.



Witnesses
A. Bucklee
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Inventor
Abel Miskler.

United States Patent Office.

ABEL MISHLER, OF NEW YORK, N. Y.

Letters Patent No. 102,029, dated April 19, 1870.

IMPROVEMENT IN DOOR-SPRINGS.

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

I, ABEL MISHLER, of the city, county, and State of New York, have invented new and useful Improvements in the Application of Elastic Door-Springs, and the method of tightening the same.

My invention relates to a new method of giving the requisite tension to an elastic spring, so arranged within the body of the door that its tension serves to close the door when opened either way, and hold it firmly in its place when shut, and the device for tightening up the spring when required.

Description of the Drawings.

Figure 1 shows the front elevation of a door when closed.

Figure 2 shows the edge view of a door opened.

Figure 3 shows a section through the door, at *y y*, fig. 1.

Figure 4 is an endwise view of the door as opened in either direction, shown in dotted lines.

General Description by Letter.

In the central cross piece or stile of the door A is made a deep mortise or cavity, in which an elastic rubber spring, D, is placed, double or single, as may be required, one end of the spring being secured to the loop or staple E, which is let in flush into the jamb of the door or casing B, the spring passing in

between two friction-rollers *f f*, secured vertically in the edge stile of the door A.

The other end of the spring D is secured to a windlass, *g*, placed centrally, or thereabouts, in the middle stile, it being so constructed that it may be turned to tighten up the spring, and held by a pawl or latch.

The portion of the rubber spring D that connects with the staple E in the casing, and bears upon the friction-rollers *f f*, may and should be made thicker than the portion contained within the recess, which will give it more durability without making it more rigid.

For large, heavy doors, it may be desirable to insert two or more of the rubber springs, the recess in the door being proportionably large to receive them.

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

The windlass *g*, or an equivalent device for tightening an elastic rubber door-spring, when both are inserted in the body of the door, and arranged to operate substantially in the manner as and for the purposes specified.

ABEL MISHLER.

Witnesses:

W. B. GUERNSEY,
A. R. BUCKBEE.