

B. G. Fitzhugh.

India-Rubber Door-Spring.

N^o 72992

Patented Jan. 7, 1868.

Fig. 1.

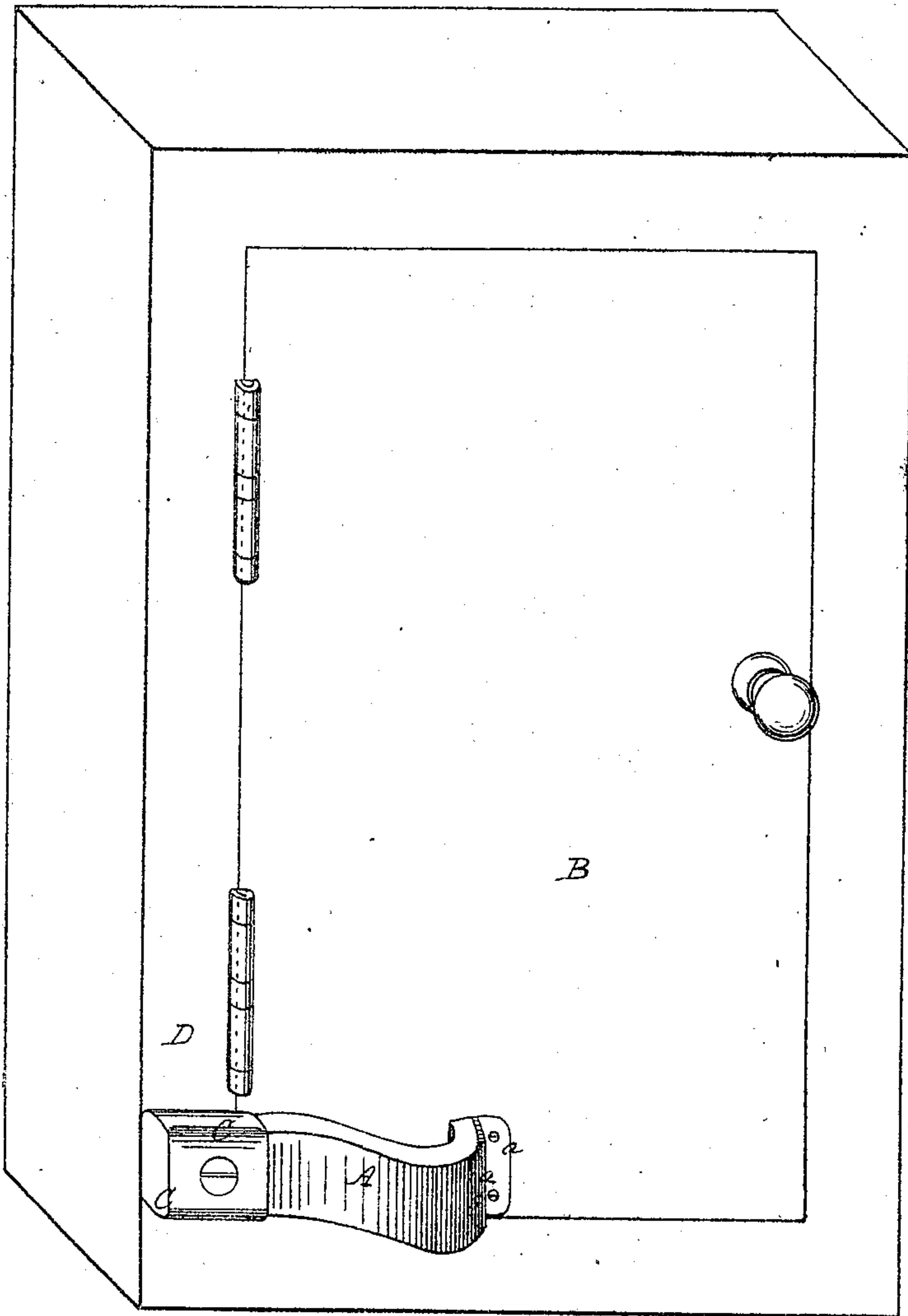
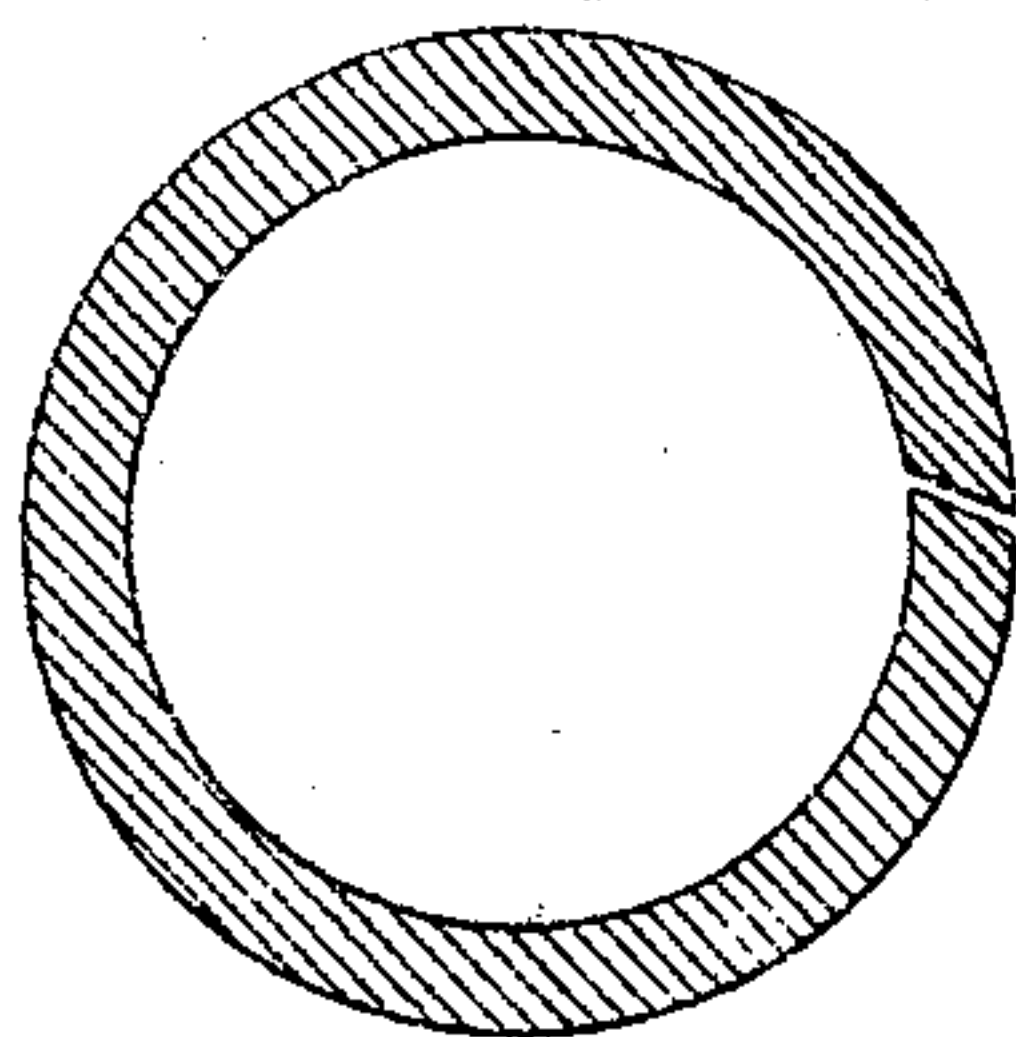


Fig. 2.



Witnesses
A. Moore
H. S. Miller.

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United States Patent Office.

B. G. FITZHUGH, OF SYKESVILLE, ASSIGNOR TO HIMSELF AND WILLIAM G. MAXWELL, OF BALTIMORE, MARYLAND.

Letters Patent No. 72,992, dated January 7, 1868.

IMPROVEMENT IN INDIA-RUBBER DOOR-SPRING.

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, B. G. FITZHUGH, of Sykesville, in the county of Carroll, and State of Maryland, have invented certain new and useful Improvements in India-Rubber Springs for Closing Doors; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents one of the springs in question, as applied to a door.

Figure 2 represents the form in which the rubber spring is vulcanized, it being spread or opened out when applied to the door.

I am aware that India-rubber straps and bands have been used as door-springs. I lay no claim to such, as my India rubber possesses a quality and performs an operation that the strap or band does not possess or perform.

My invention consists in an India-rubber, so called, spring, which is made and vulcanized in a circular or curved form, and the reacting or recoiling property of which is not in the line of its length, but a line transverse thereto.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

If a short section be cut off from a piece of India-rubber hose, and a gash cut through it, as shown in fig. 2, and this piece be pulled out in somewhat of a straight form, and one end of it secured to the door-frame, and the other allowed to press against the door, the spring is made and applied; and instead of cutting such sections from India-rubber hose, which, however, is a very cheap way of making them, they may be moulded and vulcanized separately, but substantially of the form shown in fig. 2.

In fig. 1, A represents one of the springs applied to a door, B. In this figure, C represents a neat metallic box, for holding one end of the spring, and confining it to the door-frame D. The other end of the spring bears against the door, and may be kept in proper position by a metallic brace, *a*, recess, or holder, of any kind that will simply keep that end in proper position. The rubber does not act by elongation or contraction, but by being bent against the curved position or form in which it has been vulcanized, and to which it strives to return as its normal condition.

Having thus fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

An India-rubber door-spring, that is vulcanized in a curved or circular form, and applied to a door in a straighter form than that in which it was vulcanized, substantially as and for the purpose herein described and represented.

B. G. FITZHUGH.

Witnesses:

A. B. STOUGHTON,
EDM. F. BROWN,