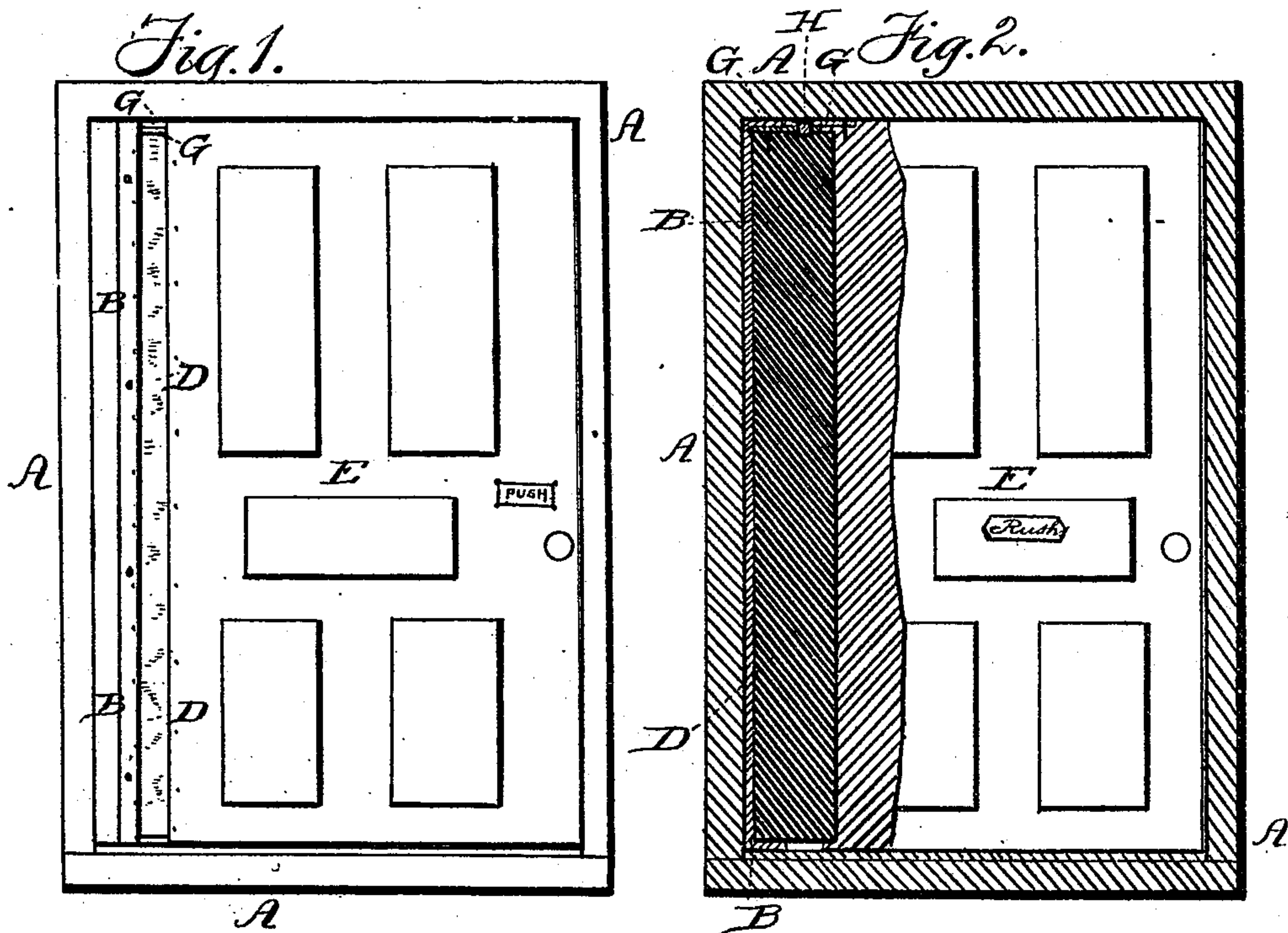


(Model.)

J. T. RUSH.  
Door Spring.

No. 243,405.

Patented June 28, 1881.



WITNESSES

*J. R. Little*  
James A. Little

INVENTOR

*John T. Rush*  
by *Chas. Howard Co.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN T. RUSH, OF TYRONE, PENNSYLVANIA.

## DOOR-SPRING.

SPECIFICATION forming part of Letters Patent No. 243,405, dated June 28, 1881.

Application filed April 12, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, JOHN T. RUSH, of Tyrone, in the county of Blair and State of Pennsylvania, have invented certain new and useful Improvements in Door-Springs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a side view. Fig. 2 is a vertical sectional view. Fig. 3 is a horizontal sectional view, and Fig. 4 is a top view.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to an elastic door-spring, the construction and operation of which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A represents the door-frame, which is of the ordinary construction. Upon the inside of the jamb is secured a vertical strip or heavy molding, B, having a vertical groove, C, in which a thick and stout rubber strip, D, is secured by screws, nails, glue, or in any other suitable manner.

E is the door, the edge of which is provided with a vertical groove, F, in which the edge of the rubber strip D, projecting from molding B, is fitted and secured, as shown, by screws or otherwise.

It will be seen that by this construction the rubber strip D forms an elastic hinge, which retains the door automatically in a closed position. The door may be pushed open from either side, and when released from the pressure of the hand will spring back to a closed position.

In heavy doors, which might have a tendency to sag and bear down upon the threshold, I prefer to use a supplemental metallic

strap-hinge, as shown in Fig. 4 of the drawings. The leaves of said hinge, which are represented by letter G, are secured respectively to the top edge of the door and to the top of molding B, the pivot H being adjusted directly over the center of strip D. This hinge, while not interfering in the least with the operation of the elastic hinge, greatly adds to the stability and durability of the device. I would have it thoroughly understood, however, that the said metallic hinge may or may not be used without interfering with the nature of my invention.

My improved elastic hinge is simple in construction, inexpensive, and completely answers the purpose of the complicated spring-hinges which are now commonly used. At the same time it forms a complete guard against the admission of wind, dust, and moisture through the hinged side of the door.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination, with a door-frame, of a vertically-grooved molding secured to the side of the jamb, a door having a vertically-grooved edge, and an elastic connecting-strip, as herein described, for the purpose shown and specified.

2. The combination, with a door secured to the door-frame by an elastic or flexible strap, of a metallic strap-hinge arranged upon the upper edge of the door and connecting it to the casing or frame to prevent sagging, as herein described, for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN T. RUSH.

Witnesses:

JOS. ESCHBACH, Jr.,  
D. B. WILSON.