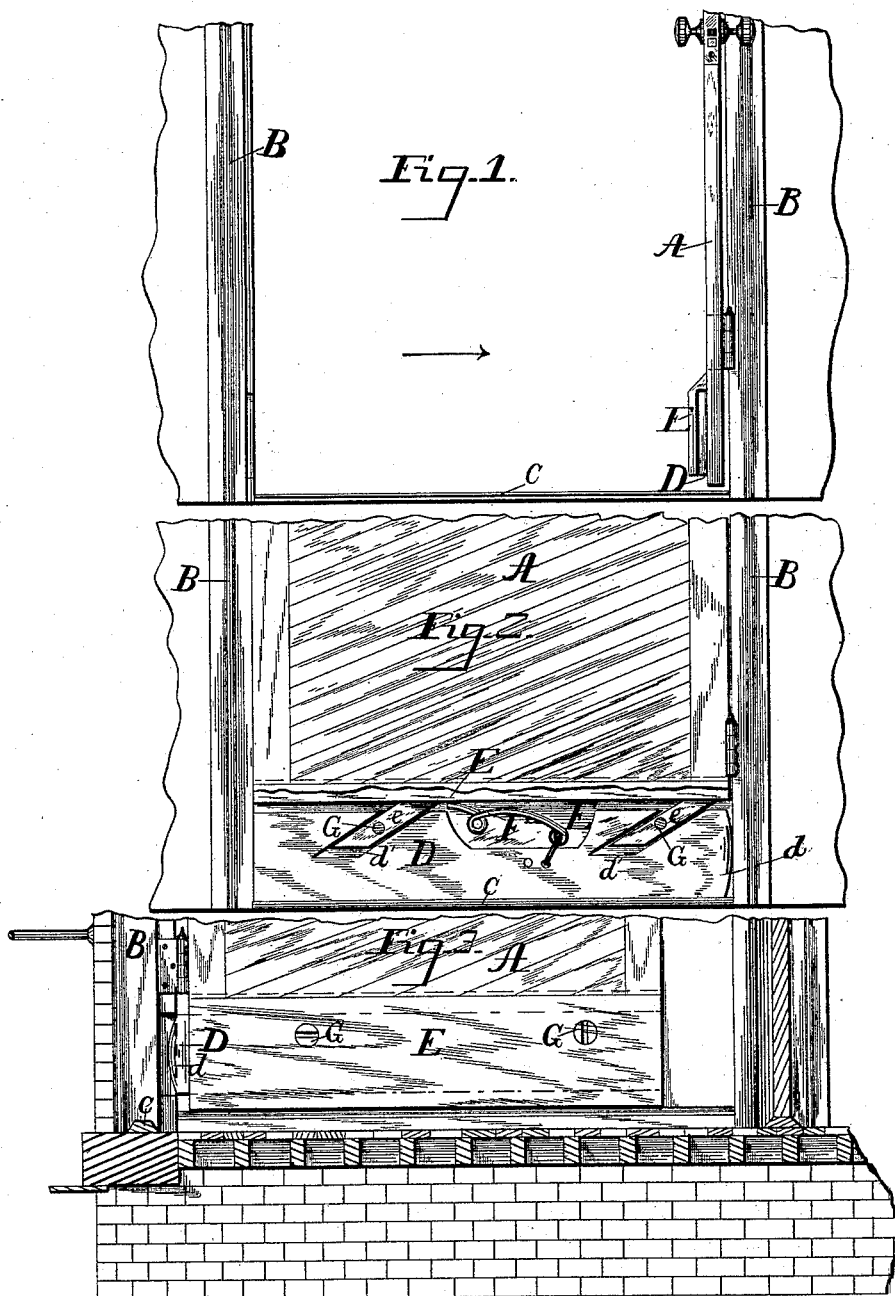


(No Model.)

J. H. FERGUSON.
WEATHER STRIP.

No. 421,256.

Patented Feb. 11, 1890.



Witnesses.
John Bailey John
Wm. F. Brereton

John H. Ferguson Inventor.
By his Attorneys *Soule & Co.*

UNITED STATES PATENT OFFICE.

JOHN H. FERGUSON, OF ASHLEY, ILLINOIS, ASSIGNOR OF ONE-HALF TO
GEORGE F. DICKERMAN, OF SAME PLACE.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 421,256, dated February 11, 1890.

Application filed May 24, 1889. Serial No. 311,924. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. FERGUSON, a citizen of the United States, residing at Ashley, in the county of Washington and State of Illinois, have invented certain new and useful Improvements in Weather-Strips; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention is a weather-strip for doors; and my said invention consists of a strip arranged upon the outside of the door at the bottom thereof, which strip projects at its inner end beyond the edge of the door, and is so secured in its frame that when the door is closed, the projecting end of the strip coming against the door-frame, said strip is forced downward and against the sill, thus closing the crack at the bottom of the door when said door is closed. Springs are arranged to retract the strip when the door is opened.

The object of this invention is to provide a strip for closing the space between the sill and bottom of doors that will react and be out of the way when the door is opened; and to this end I proceed as follows, reference being had to the accompanying drawings, which form a part hereof, for a better understanding of the details of construction and operation of my invention, and in which drawings—

Figure 1 is a view in elevation of a portion of a door provided with my weather-strip, the door being shown as in its open position, and looking toward the edge of the door. Fig. 2 is a similar view with the door as closed, a portion of the lower edge of the door being broken away to disclose the interior of the weather-strip; and Fig. 3 is a similar view illustrating the reverse side of the door to that shown in Fig. 2, and the same as in its open position, looking in the direction of the arrow in Fig. 1.

A designates the door, B the frame thereof, 50 and C the sill.

D is the weather-strip, which is secured in a frame E. One end of the strip D projects slightly beyond the inner edge of the door, as at *d*, Fig. 3, and angular slots, as at *d'*, 55 are provided in said strip, into which slots are received lugs or projections *e* on the frame E.

F is a spring arranged to hold the strip D upward and against the top of the frame E, 60 and in which position the said strip D is above the lower edge of the door, as shown in Figs. 1 and 3.

The operation is as follows: Upon closing the door, the projecting end *d* of the strip 65 coming against the door-frame, said strip is forced forward, and by the angular slots *d'* and lugs *e* it is caused to move downward and against the door-sill, thus closing the space at the bottom of the door. Upon opening the door the resilience of the spring retracts the strip to its normal position within its frame and out of the way. The strip is secured in position by screws G, which pass through the frame and into the door, as in Fig. 3, and by regulating the amount of projection beyond the edge of the door of the strip the degree of pressure of said strip upon the sill may be regulated as desired.

I claim—

In a weather-strip for the bottom of doors, the frame E, adapted to be secured in position by the screws G, which pass through said frame and into the door, and having angularly-placed lugs *e e*, strip D, arranged to 85 project beyond the inner edge of the door and having angular slots *d' d'*, to receive the lugs *e e* of the frame, and spring F, arranged to hold the strip within the frame, as described and shown, for the purposes specified. 90

In testimony whereof I affix my signature in presence of two witnesses.

JOHN H. FERGUSON.

Witnesses:

SAMUEL J. BALDRIDGE,
C. G. BENTON.