

No. 672,929.

Patented Apr. 30, 1901.

N. S. WORLEY & J. R. LOWDERMILK.
WEATHER STRIP.

(No Model.)

(Application filed Jan. 28, 1901.)

Fig. 1.

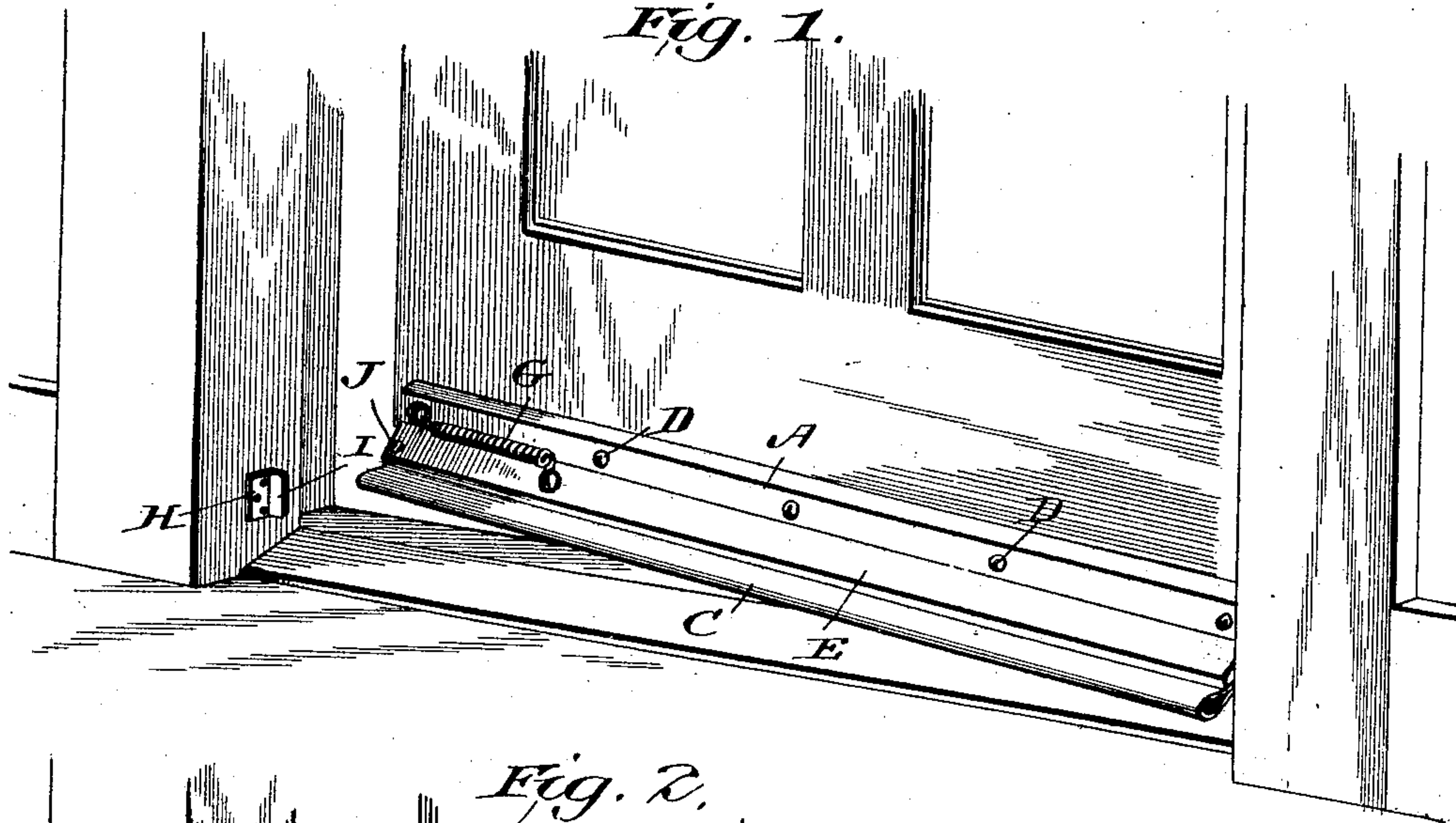


Fig. 2.

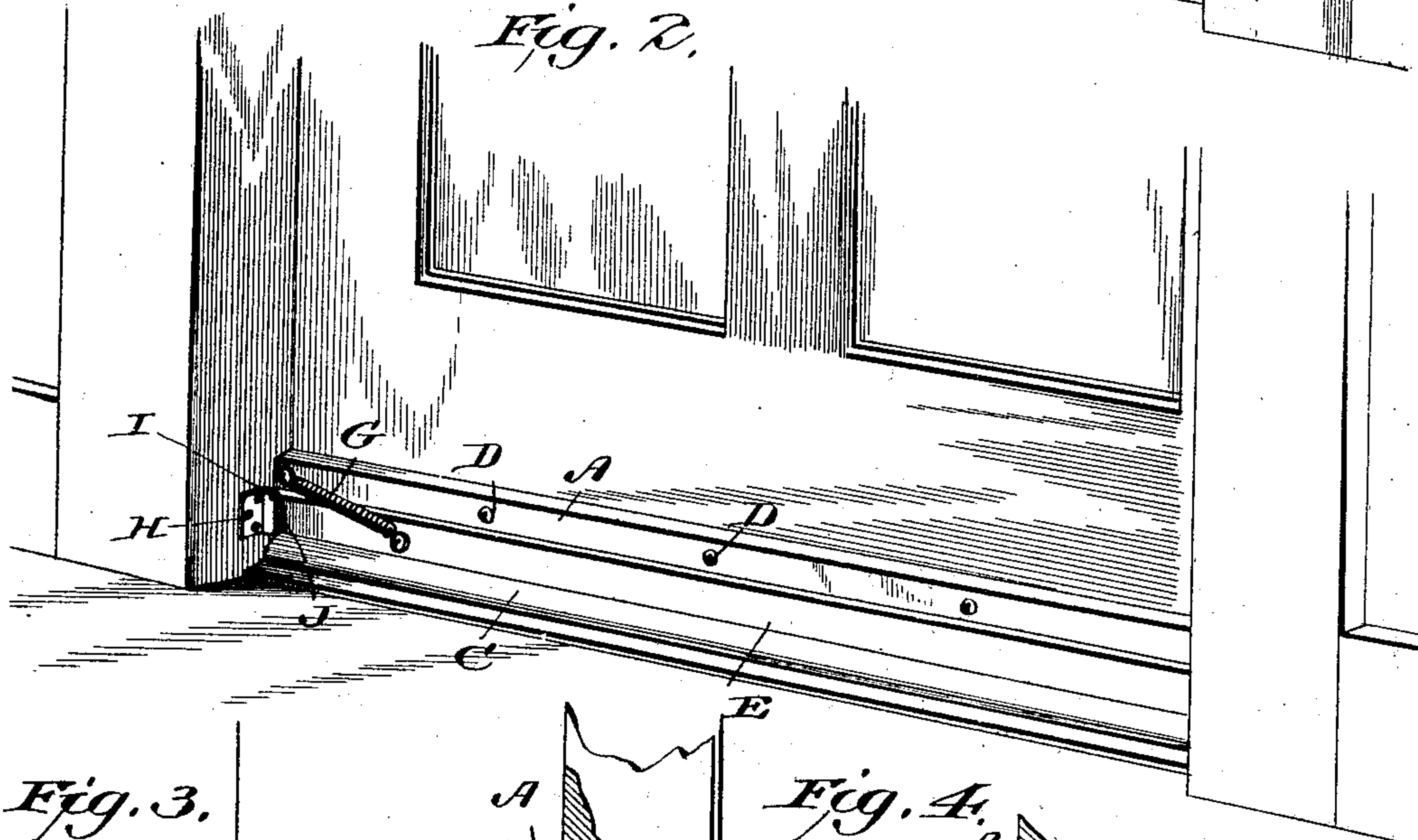


Fig. 3.

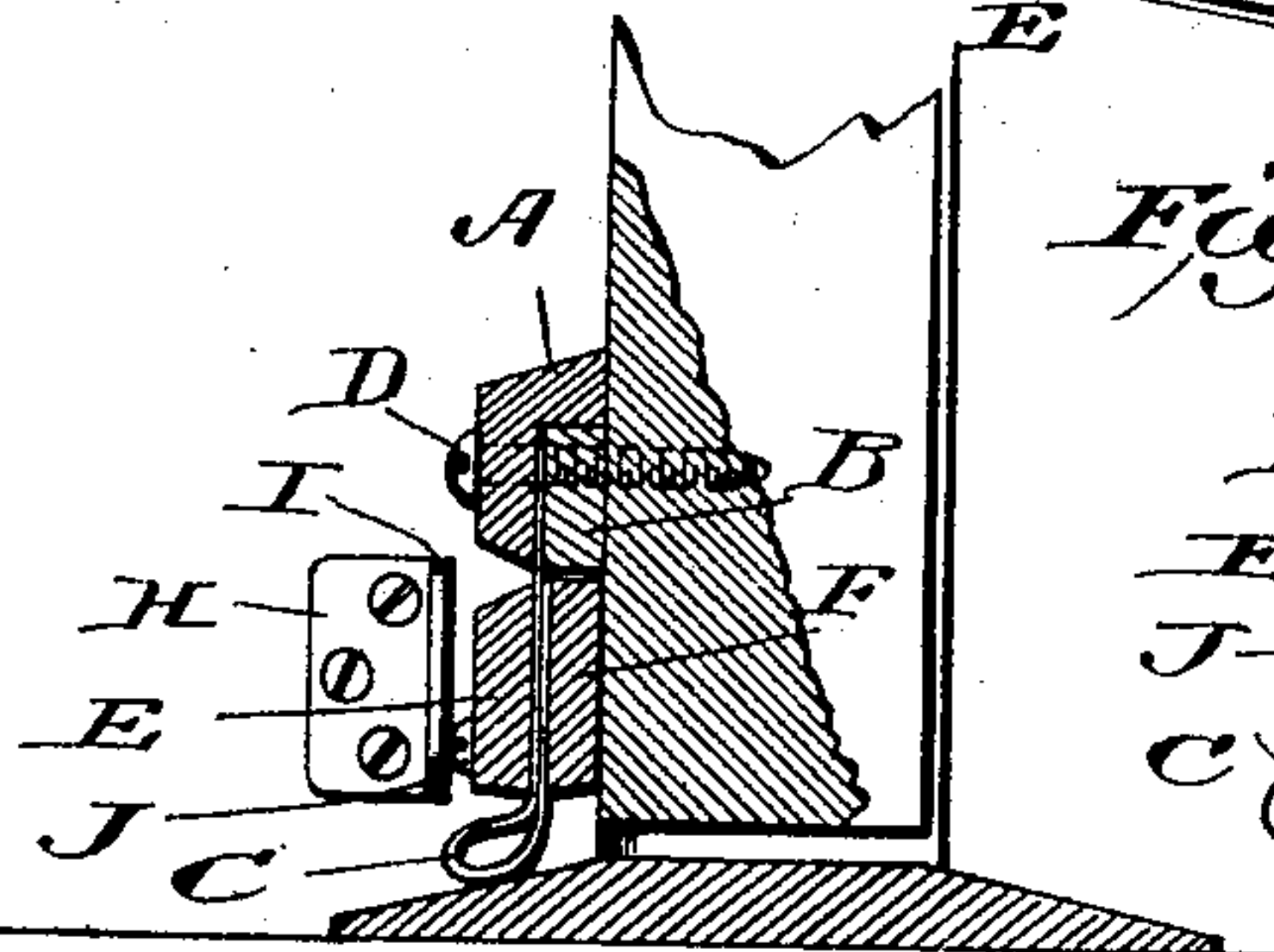
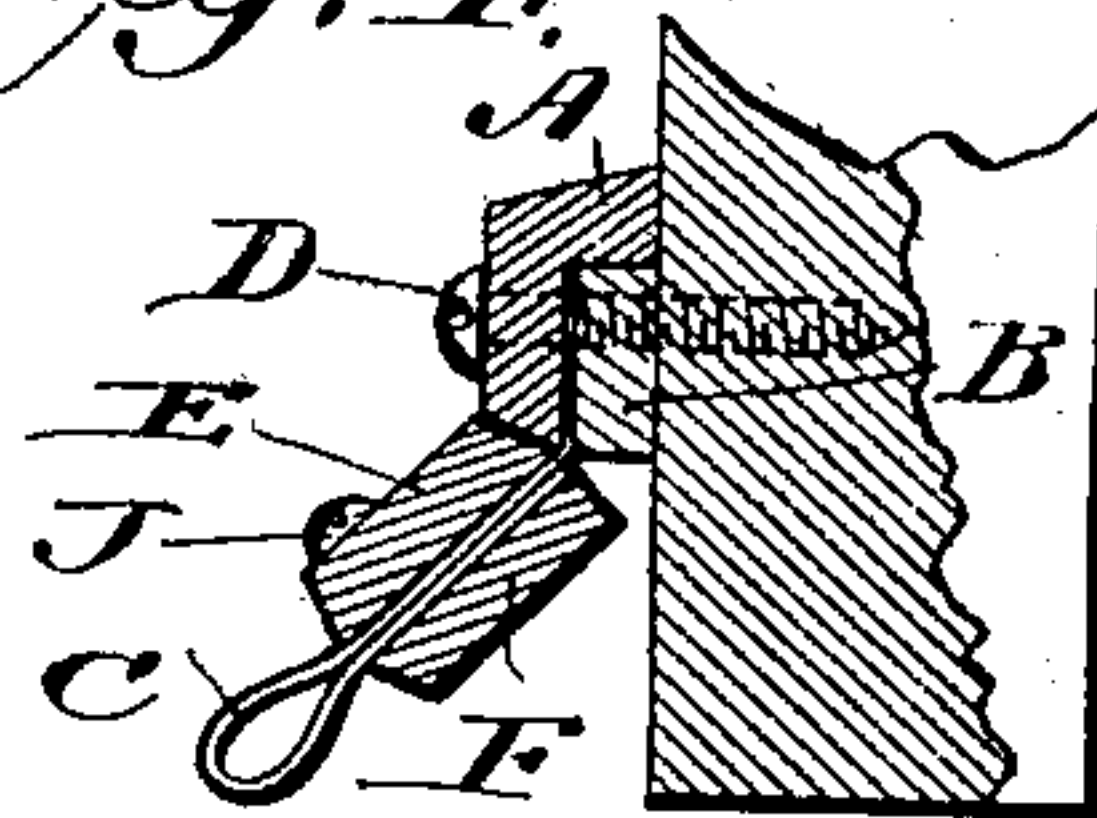


Fig. 4.



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UNITED STATES PATENT OFFICE.

NORTH S. WORLEY AND JOE R. LOWDERMILK, OF SULLIVAN, INDIANA.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 672,929, dated April 30, 1901.

Application filed January 28, 1901. Serial No. 45,032. (No model.)

To all whom it may concern:

Be it known that we, NORTH S. WORLEY and JOE R. LOWDERMILK, citizens of the United States, residing at Sullivan, in the county of Sullivan and State of Indiana, have invented a new and useful Weather-Strip, of which the following is a specification.

This invention relates to improvements in weather-strips; and the object is to provide a very simple and effective construction of weather-strip for use in connection with the bottom edge of a door to snugly contact with the sill when the door is closed and prevent the ingress of air and insects and to automatically raise, so as to clear the carpet or any obstruction when the door is swung open.

With the above object in view the invention consists in the novel features of construction hereinafter fully described, particularly pointed out in the claims, and clearly illustrated by the accompanying drawings, in which—

Figure 1 is a perspective view of the lower portion of a door-frame and door looking at the same from the inner side, the door being provided with our improved weather-strip and illustrated in a slightly-open position; Fig. 2, a similar view with the door closed; Fig. 3, a vertical transverse sectional view of Fig. 2, and Fig. 4 an end elevation of the lower portion of the door provided with the strip.

Referring now more particularly to the drawings, A designates a strip which is secured to the inner face of the door, adjacent to the lower edge thereof, and formed in its inner face and at its lower edge with a longitudinally-extending recess to receive the bar B. The upper edge of a flexible strip C is positioned between the strip A and bar B and secured therebetween by screws or other securing devices D, which pass therethrough and serve to secure said strip A and bar B together and also to the door. The flexible strip C projects quite a considerable distance below strip A and is doubled, as illustrated. Said strip C is secured at a point below and adjacent to strip A between two strips E and F, the doubled portion project-

ing below the lower edges of said strips to form a flexible portion which contacts with the door-sill and prevents the ingress of air or insects. This flexible strip also hinges strips E and F to strip A, so that the weather-strip is formed of two sections, one of which is secured to the door and the other hinged thereto by a strip of flexible material, which projects below the lower edge of the latter.

G designates a horizontally-disposed spring having one of its ends secured to one of the fastening-screws D of the fixed section and at its opposite end to the movable section and holds the latter normally raised. The meeting edges of the upper and lower sections are beveled, so as to permit the lower section to move upwardly far enough to clear the carpet or other obstruction when the door is opened.

Secured to the door-frame, upon the inner face thereof, is a plate H, having its end bent at an angle to form a stop I. This plate is so positioned with reference to the swinging section of the weather-strip that when the door is closed said section by contact therewith is forced downwardly, bringing the projecting portion of the flexible strip in contact with the door-sill. Said swinging section is provided with a wear-plate or stud J to contact with the stop.

From the above description it will be seen that we have provided an exceedingly simple construction of weather-strip, which may be manufactured and sold at a very small price and which may be readily applied to the door and is not likely to get out of order, owing to its simplicity.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent of the United States, is—

A weather-strip for doors, comprising a section adapted to be secured to the door and having its inner face recessed, a bar positioned in said recess, a flexible strip positioned between said bar and said strip, securing devices passing through said strip and bar for securing the same together and to the door, a movable section comprising two strips positioned on the respective sides of the flexible strip below the fixed strip, said flexible

strip projecting below the lower edge of the movable section and doubled, and a spring secured at its respective ends to the movable section and the fixed strip, in combination
5 with a stop adapted to be secured to the inner side of the door-frame in position to engage the swinging section and move the same downwardly when the door is closed, substantially as described.

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