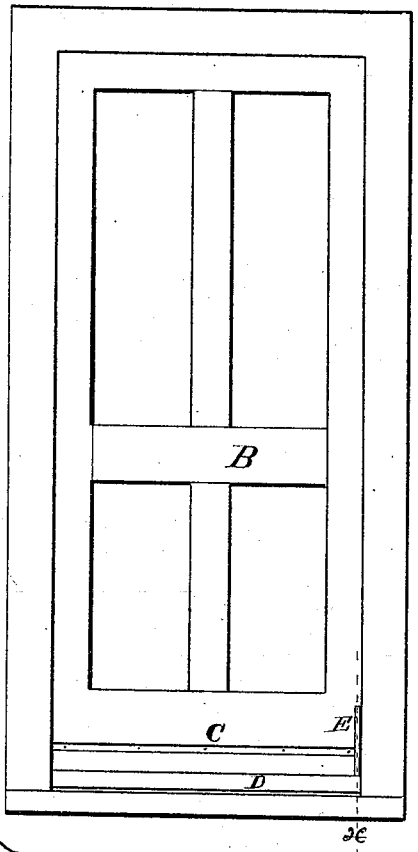
A. F. VAN DOLSEN.
Weather-Strip.

No. 196,318. Patented Oct. 23, 1877.

Fig. 1.



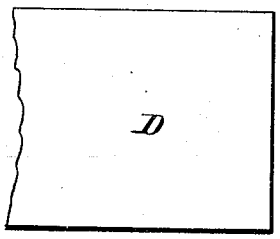


Fig. 5.

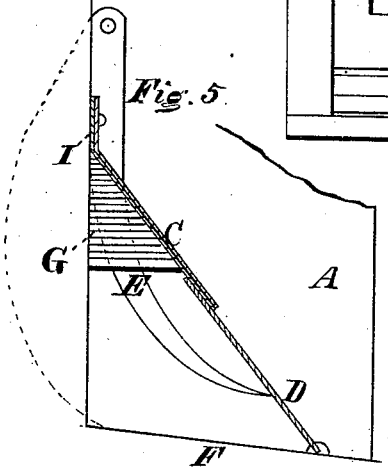
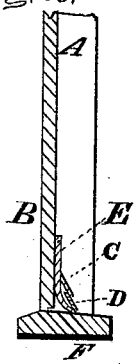
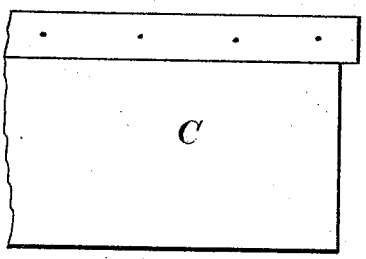


Fig. 2.



Figs. 3 and 4



Witnesses.
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Adolf Heller.

Inventor.
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By G. L. Chapin
Atty

UNITED STATES PATENT OFFICE.

AUGUSTUS F. VAN DOLSEN, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **196,318**, dated October 23, 1877; application filed September 4, 1877.

To all whom it may concern:

Be it known that I, AUGUSTUS F. VAN DOLSEN, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Weather-Strips for the Bottoms of Doors, of which the following is a description, reference being had to the accompanying drawings, illustrating the improvement, in which—

Figure 1 is a front elevation of a door and casing with my improvement attached; Fig. 2, a vertical section through Fig. 1 on line *x*. Figs. 3 and 4 are face views of the weather-strips removed from the door and sill; Fig. 5, a detached view of the curved lifter and weather-strips, enlarged.

The nature of the improvement, in brief, consists of an inclined plate, lined with rubber, secured to the door, and supported by a rib underneath, in combination with a plate hung to the sill so as to be elevated by a curved lifter, which is pivoted to the jamb-casing in such position that the door, coming in contact therewith, will swing the point of the lifter forward, and elevate the sill strip or plate against the rubber on the back of the upper plate, and thus form a close joint as a protection against air and water.

I am aware that to bring in contact one hinged weather-strip with another strip or plate, to exclude water and air, is old, and that mechanism has been in use by which the door is the power applied to operate the hinged plate, and bring it in position to close the space below the door. I therefore confine myself to the combination hereinafter claimed as my distinct means for excluding air and moisture.

A represents the jamb-casing, and F the sill, of an ordinary doorway, and B represents the door therein. A strip of metal plate, D, is, at its outer edge, hung to the sill F, so that its inner edge may be elevated; and another metal strip, C, is bent in the form shown, and to its back side is attached a thin strip of rubber, I, covering its surface, as shown at Fig. 5 in section.

The plate C, so lined, is secured to the bottom rail of the door B, and to prevent it from springing a rib of wood, E, is placed between it and the door, Fig. 5, so that when the two plates are in position, as when the door is closed, the joint between will be tight enough to exclude air and water to a practical extent. A curved lifter, E, made of iron, is pivoted to the jamb-casing A, so that it may swing thereon and come under the inside edge of the plate D, and so that the door B, in shutting, will strike against it and swing its point out far enough to cause it to elevate the plate D closely against the rubber I.

The opening of the door will release the parts, and the plate D will drop flat on the sill F, and thus be out of the way.

I claim and desire to secure by Letters Patent—

The combination of the curved lifter E, pivoted to the jamb-casing, and extended below the plate D, with the rubber-lined strip or plate C and rib G, as described and shown.

AUGUSTUS F. VAN DOLSEN.

Witnesses:
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ADAM FROST.