2 Sheets—Sheet 1.

G. HOWVER.

WEATHER-STRIP.

No. 190,039. Patented April 24, 1877.

Fig. 1.

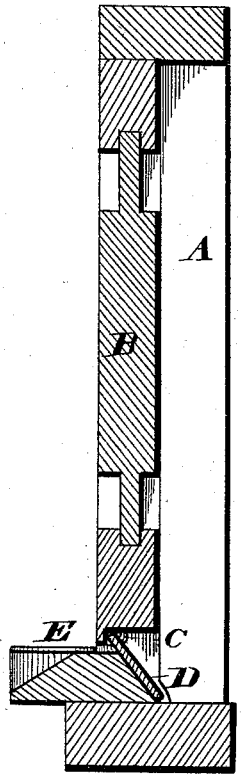
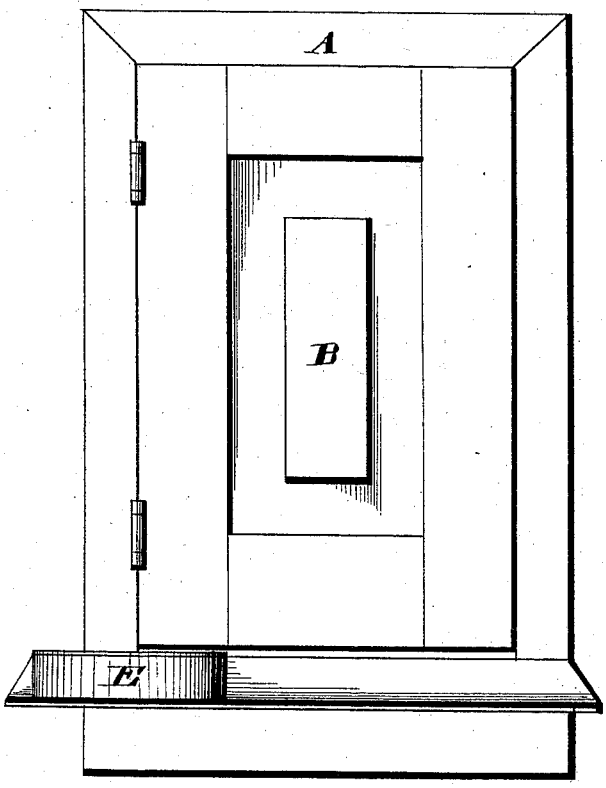


Fig. 2.



WITNESSES

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2 Sheets—Sheet 2.

G. HOWVER.

WEATHER-STRIP.

No. 190,039. Patented April 24, 1877.

Fig. 4.

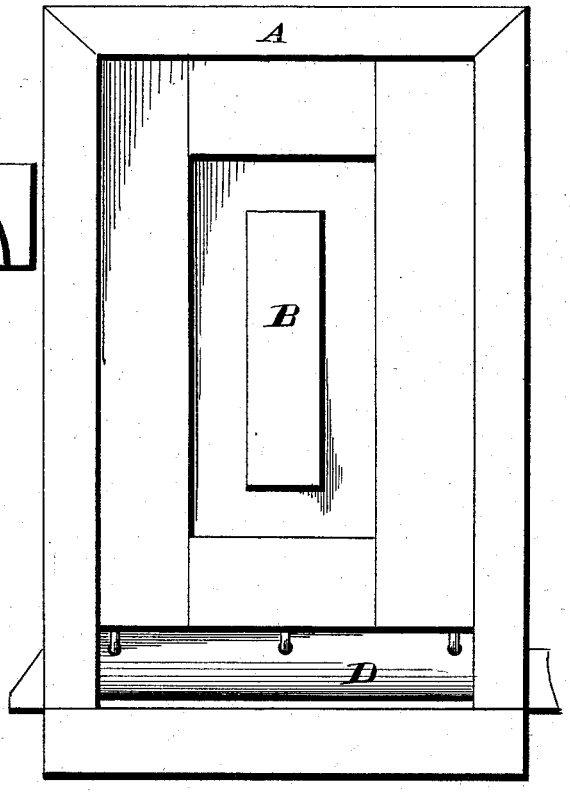
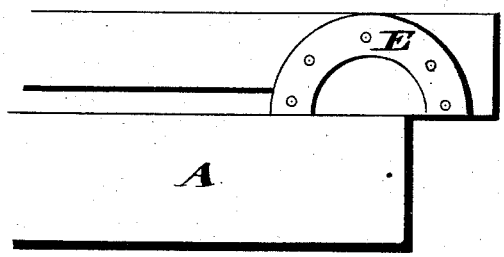


Fig. 3.



WITNESSES

Ed. L. Nottingham

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INVENTOR

George Howver.

By Leggett and Leggett.

ATTORNEY

UNITED STATES PATENT OFFICE.

GEORGE HOWVER, OF MANSFIELD, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO JOHN CLOUSER, OF SAME PLACE.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **190,039**, dated April 24, 1877; application filed March 23, 1877.

To all whom it may concern:

Be it known that I, GEORGE HOWVER, of Mansfield, in the county of Piatt and State of Illinois, have invented certain new and useful Improvements in Weather-Strip; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to a certain improvement in weather-strips to be applied to doors for keeping out wind and water, and is designed to furnish a device which, while admitting of being firmly secured to the door, will, at the same time, allow the door to present a neat appearance, both while open and closed.

According to its construction, the lower edge of a door is formed with a longitudinal rectangular recess extending nearly across the depth of the door, and adapted to receive the weather-strip in a horizontal position, so that its face may closely fit against the lower edge of the door, and thus, while maintaining the strip in horizontal line closely within the recessed edge of the door as the latter is swung open, it also neither mars the appearance of the inside of the door, nor presents itself in the way, so as to be struck by any passing object.

Referring to the drawings, Figure 1 is a view in vertical cross-section, and Fig. 2 shows the inside of a closed door provided with my improvement. Fig. 3 is a plan view of my improvement, and Fig. 4 a front elevation of the same.

A represents the ordinary frame-work, inclosing a door, B, whose lower or bottom edge is made with the rabbet or rectangular recess C extending in full width of the door, and cut from the outer lower edge of the latter on a horizontal line past the central depth of the door, and to within a short distance from the inner side face of the same.

To the inner longitudinal side of this rabbet is loosely secured, by staple, hinge, or other suitable connecting mechanism, the weather-strip D, which latter corresponds in length to the width of the door, while its width is of such dimension that its free longitudinal side projects from the outer face of the door a suitable distance, to allow of the strip effectually covering the threshold of the door when it falls down upon the same in operative position.

This strip consists of a plate of zinc, iron, or other suitable material, and, in practice, I preferably make it about one and one-fourth ($1\frac{1}{4}$) inch in width, more or less; but it is evident that its width will depend much upon the depth of the door to which it is secured; also, I preferably fasten the strip to the door by five staples, passing through corresponding slots in the plate, which allow the latter full play in a horizontal plane, and permit it to fall, by its own weight, over the threshold upon closing the door.

This strip D is maintained in horizontal position, and held close against the upper face of the rabbeted recess C, as the door swings opens, by means of the semicircular supporting-platform E. This latter is formed on the inner side of the threshold, at the rear or hinged portion of the door, and so constructed, relatively to the latter, that while the door is either swinging to and fro, or standing open, the strip will be pressed well up against the top of its recess C.

A door thus provided with my improvement presents a neat and finished appearance upon its inner side, and, at the same time, secures the strip firmly to it by allowing it to work in the lower rabbeted edge of the door, while, upon opening the latter, the strip is held within its recess, and prevented from coming into view, except as little as is possible, and is also thus kept from being struck or injured by any passing object.

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

The combination, with the door B, the lower edge of which has a rectangular recess, C, formed thereon, of the swinging weather-strip D, secured to the edge of the door by staples, and metallic plate E, said weather-strip being of sufficient width to rest in direct contact with the angular face of the door-sill, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 12th day of March, 1877.

GEORGE HOWVER.

Witnesses:
W. F. MAXWELL,
JULES FEE.