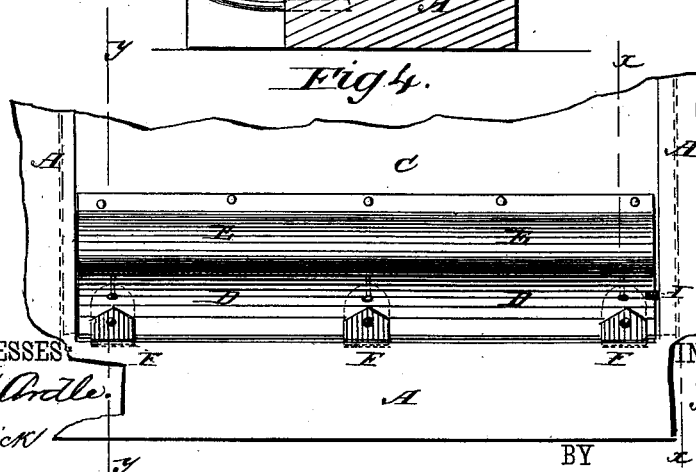
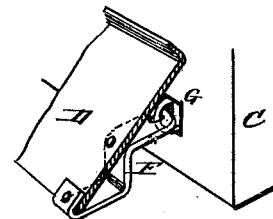
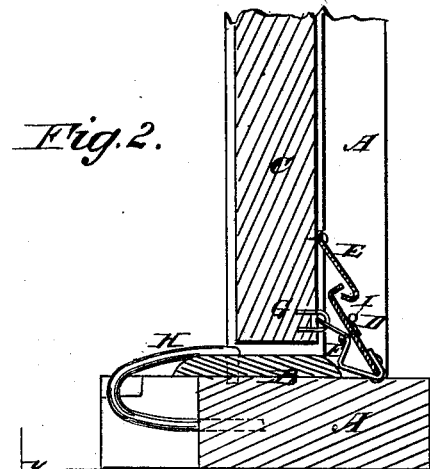
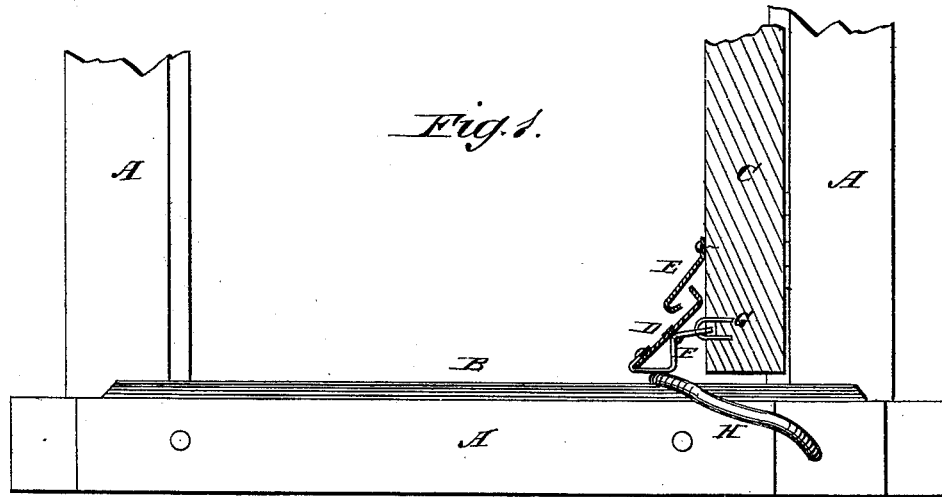


P. W. CASSIL.  
Weather-Strip.

No. 221,519.

Patented Nov. 11, 1879.



WITNESSES:  
*J. M. Orde*  
*C. Pedgwick*

INVENTOR:  
*P. W. Cassil*  
*Mum*

BY

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

PHILIP W. CASSIL, OF NEW ATHENS, OHIO.

## IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **221,519**, dated November 11, 1879; application filed September 9, 1879.

*To all whom it may concern:*

Be it known that I, PHILIP WARD CASSIL, of New Athens, in the county of Harrison and State of Ohio, have invented a new and Improved Weather-Strip for Doors, of which the following is a specification.

Figure 1 is a cross-section of my improved weather-strip, taken through the line *x x*, Fig. 4, the door being shown as opened at right angles with the doorway. Fig. 2 is a cross-section of the same, taken through the line *y y*, Fig. 4, the door being shown as closed. Fig. 3 is a detail cross-section of the main strip enlarged. Fig. 4 is a front view of the same, the door being shown as closed.

The object of this invention is to furnish improved weather-strips for doors, which shall be effective in use, and at the same time so constructed as to be free from the defects of the ordinary weather-strips.

The invention consists in the bent straps, in combination with the main strip and the cap-strip, to receive the hinging hooks or staples, and serve as feet to the said main strip while passing over the threshold, as hereinafter fully described.

A represents the door-frame; B, the threshold, and C the door. D is the lower or main strip, which is made plain and has its upper edge bent outward to be overlapped by the inwardly-bent lower edge of the upper or cap-strip, E, so that no water or snow can pass in between the said strips D.E. The upper edge of the cap-strip E is bent outward and is attached to the door C, so that the said strip may incline outward.

To the inner side of the main strip D are attached two or more straps, F, the upper ends of which are bent back from the said strip D, and have holes formed through them

to receive the hooks or staples G, attached to the door C. The lower parts of the straps F are bent downward and outward, and their lower ends are bent upward, to pass around the lower edge of the main strip D, to which the said ends are secured.

The bends of the lower part of the straps F are such that they may have a flat surface, to slide upon the upper surface of the threshold and upon the carpet, to keep the lower edge of the main strip D from scraping upon the said threshold or carpet. So many of the straps F are used that one or more of them will always be resting upon the threshold B while the door C is being opened and closed.

H is a bent rod, attached to the frame A, for the foot of the strap F next the hinged edge of the door C to slide upon, so as to raise the main strip D over the outer edge of the threshold B when the door C is being opened. As the door C is closed the main strip D drops down over the outer edge of the threshold B, and is forced down snugly against the door-sill by a stop-pin, I, attached to the post of the frame A.

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

In combination with the main strip D and the cap-strip E, the bent straps F, engaging with the hooks or staples G, and serving to hinge the strip eccentrically to the door, and also serving as feet to the said strip D while passing over the threshold B, as described.

PHILIP WARD CASSIL.

Witnesses:

WILLIAM CANNON,  
T. J. HENDERSON.