

(No Model.)

C. MARTZOLF.

WEATHER STRIP.

No. 344,284.

Patented June 22, 1886.

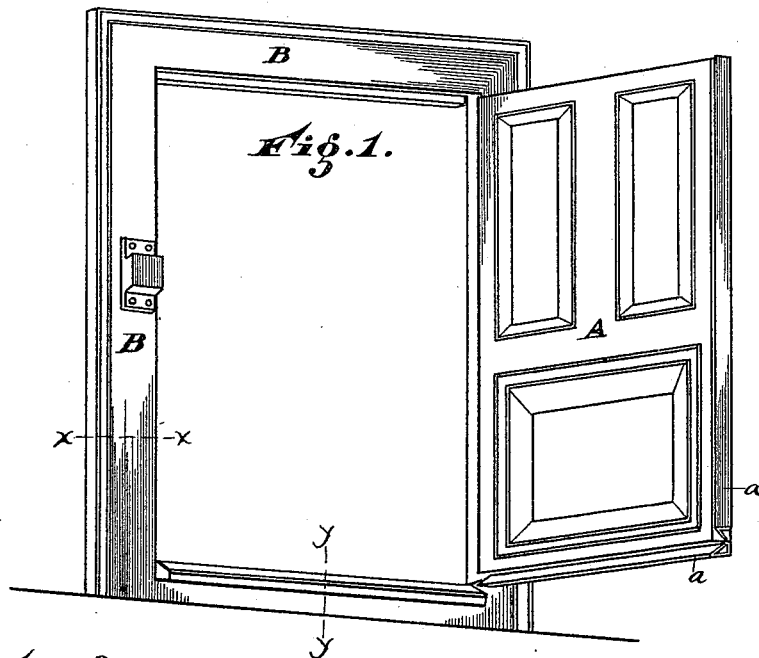


Fig. 2.

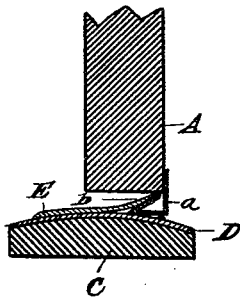


Fig. 3.

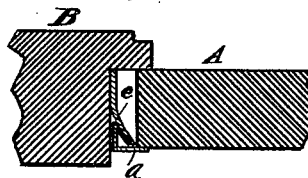
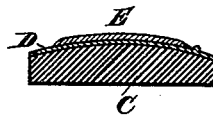


Fig. 4.



Attest

J. Watson Sims
per S. R. Buck Jr.

Inventor

Christian Martzolf
by Wm. & Boyd
his Attorneys, etc.

UNITED STATES PATENT OFFICE.

CHRISTIAN MARTZOLF, OF NEWPORT, KENTUCKY.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 344,284, dated June 22, 1886.

Application filed April 3, 1886. Serial No. 197,701. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN MARTZOLF, of Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Weather-Strips, of which the following is a specification.

My invention consists in a combined carpet or flexible weather strip which can also be applied as a weather-strip to the sides and tops of doors, windows, transoms, or other openings which are closed by a hinged cover.

The features of my invention will be specifically set forth in the description of the accompanying drawings, making a part of the specification, in which—

Figure 1 is a perspective view of my improvement applied to a door. Fig. 2 is a section on line *y y*, Fig. 1, showing the door closed. Fig. 3 is a section on line *x x*, Fig. 1. Fig. 4 is a section on line *y y* with the door open.

A represents the door; B, the jambs; C, the door-sill; D, a flexible covering of the door-sill, which may be made of carpeting or oil-cloth; but rubber is preferred.

E represents my combined carpet or flexible weather strip, one edge of which is securely attached to the door-sill, the other edge being free to be raised when the door is closed.

a represents a projection at the bottom of the door, the forward or inner edge of which is made sharp and inclined upward, as shown in section, Fig. 2. It is preferably made of metal, so as to have a sharp edge to readily pick up the carpet or flexible weather strip E. It is attached to the door, so as to leave a space, *b*, under the door. When the door swings on its hinges, the sharp edge of the inclined strip *a* engages under the edge of the carpet or weather strip E, picks it up, and carries it into the space *b*, so as to effectually protect the joint from the entrance of moisture.

Fig. 3, *a* shows the same strip or projection applied to the edge of the door, and *e* shows the same flexible strip attached in the jamb at one edge with the outer edge free to be lifted up by the strip *a* as the door is closed. By this means I am enabled to secure a perfectly tight jointed door or frame.

By having the carpet or flexible weather-strip E thin and of flexible material, securely attached at one edge it drops down upon the

door-sill, is not in the way of the passage, has very little liability to be caught by the foot of the passer, and makes a joint superior to any hitherto employed. It can be readily renewed, as it has no hinges or devices to get out of order, and can be cheaply and easily applied.

I am aware that a hinged flap to which the edge of the carpet or floor-covering is secured has been arranged over a gutter inside of a door, said flap with the attached edge of the carpet being raised by a pivoted lever operated by a rod, so that water passing under the door will pass into the gutter and be carried off without injuring the edge of the carpet. I am also aware that a weather-strip has been composed of a metallic plate secured at one edge to the door-strip, and a plate secured to the door, so that when the door is closed the plate thereon passes under the plate on the door-strip. I am also aware that a weather-strip has been composed of a plate pivoted at its ends to the door posts or frame with a packing under said plate, and a plate secured to the under side of the door with a space between the latter and the plate containing a packing, so that when the door is closed the plate thereon will pass under the pivoted plate, and the edges of the plates will bear, respectively, against the said packing. Such constructions, however, do not constitute my invention and are not claimed by me.

Having described my invention, what I claim is—

1. The weather-strip consisting of a piece, E, of carpet or other similar flexible material having one edge rigidly secured to a door-sill, in combination with a door having the inclined projection *a*, substantially as described.

2. In combination with the jamb or sill of a door, the strip E, composed of carpet or similar flexible material rigidly secured at one edge, and having the opposite edge free, in combination with the door having sharp projections *a*, and the space *b*, into which the strip is automatically carried by the movement of the door, substantially as specified.

In testimony whereof I have hereunto set my hand.

CHRISTIAN MARTZOLF.

Witnesses:

JNO. S. ROEBUCK, Jr.,
ROBERT ZAHNER.