

T. Cowden,

Weather Strip,

Patented Dec. 6, 1864.

N<sup>o</sup> 45,320.

Fig. 1

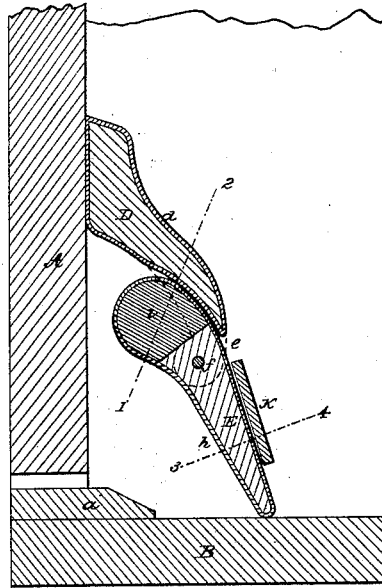


Fig. 3

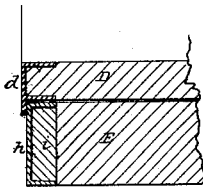
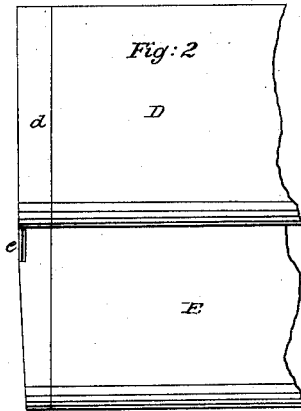


Fig. 4



Fig. 2



Witnesses:

W<sup>m</sup>. Albert Steel.  
Charles E. Foster.

Inventor:

Henry Howson  
Atty for T. Cowden.

# UNITED STATES PATENT OFFICE.

THOMAS COWDEN, OF NORRISTOWN, PENNSYLVANIA.

## IMPROVED WEATHER-STRIP.

Specification forming part of Letters Patent No. 45,320, dated December 6, 1864.

*To all whom it may concern :*

Be it known that I, THOMAS COWDEN, of Norristown, Montgomery county, Pennsylvania, have invented an Improvement in the Construction of Weather-Strips; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention consists in the peculiar manner, described hereinafter, of constructing a weather-strip of the class which consists of two pieces hinged together, the upper piece being secured to the door and the lower piece being depressed at the lower edge by contact with a projection on the door-frame when the door is closed.

My method of constructing the improved weather-strip has been designed with a view to the attainment of strength, simplicity, and neatness.

In order to enable others to make and apply my invention, I will now proceed to describe the manner of constructing the same.

On reference to the accompanying drawings, which form a part of this specification, Figure 1 is a vertical section of the lower part of a door and doorway with my improved weather-strip; Fig. 2, a front view of the strip; Fig. 3, a transverse section on the line 1 2, Fig. 1; and Fig. 4, a transverse section on the line 3 4, Fig. 1.

Similar letters refer to similar parts throughout the several views.

A represents the lower part of an ordinary door, and B the base of the door-frame, on which is a strip, *a*, situated at a point immediately below the door, as usual. To the inside of the door is secured the upper portion, D, of the weather-strip, which is made of wood and in the form represented in Fig. 1, each end being provided with a metal socket, *d*, as best observed on reference to Fig. 3.

Forming part of each socket, and projecting from the same, is a metal lip, *e*, (shown by dotted lines in Fig. 1,) and to each lip one end of the lower portion, E, of the weather-strip is hinged by a pin, *f*. Each end of this portion E is also provided with a metal socket, *h*, a

space within which is filled with a weight, *i*, of lead or other heavy material, a portion of the wood composing the piece E being cut away to make room for this weight. These weights are so situated in respect to the pins *f* as to depress the upper end of the piece E and raise the lower edge clear of the base B of the door frame at all times, excepting when the door is closed and the piece E is in contact with a projection, K, attached to one of the jambs of the door-frame, in which case the two pieces of the weather-strip are in such close contact with the base of the door-frame as to effectually exclude from the room the wind and rain which may pass through the space beneath the door A.

It should be understood that the metal sockets are driven tightly onto the ends of the pieces D and E, and are secured thereto by suitable pins or screws, these sockets thus preventing the pieces from being split, affording the best means of hinging them effectually together and of imparting a preponderance to the upper edge of the piece E.

I am aware that weather-strips have been heretofore made in two pieces hinged together, the upper piece being secured to the door and the lower piece being depressed by being brought into contact with a projection on the door-frame. I therefore wish it to be understood that I lay no broad claim to such a device, but that I limit my claim to the special mode described of constructing weather-strips; that is to say—

I claim as my invention and desire to secure by Letters Patent—

The piece D, with its sockets *d*, and the lips *e*, forming part of the said sockets, in combination with the piece E, its sockets *h*, and weights *i* within the said sockets, the whole being constructed and applied to a door and door-frame, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOS. COWDEN.

Witnesses:

HENRY HOWSON,  
CHARLES HOWSON.