

No. 100,074.

PATENTED FEB. 22, 1870.

H. A. ROBISON.  
WEATHER STRIP.

Fig. 1.

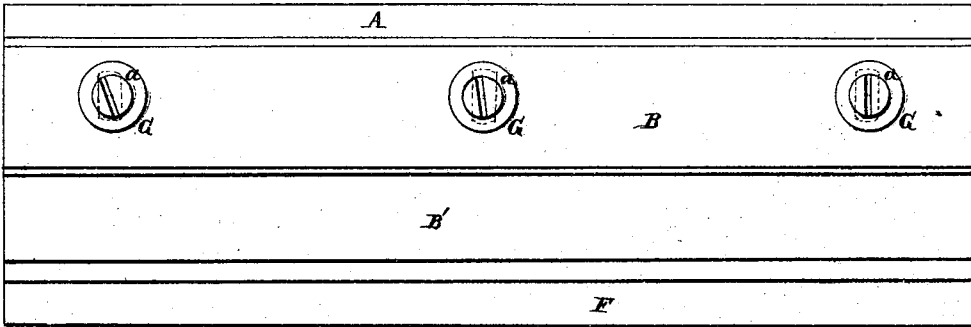


Fig. 2.

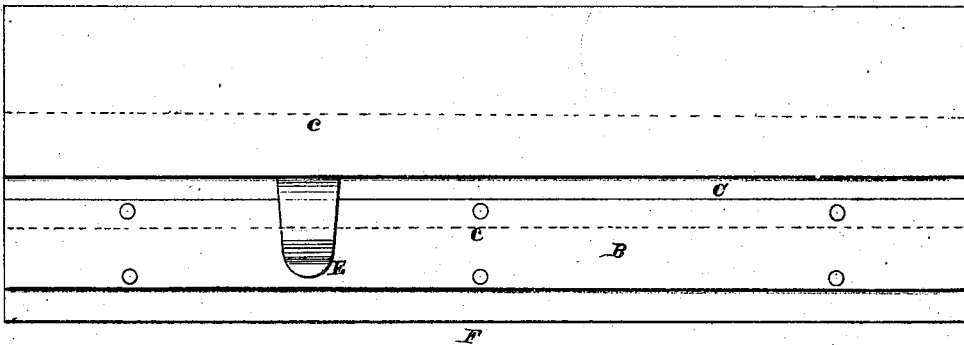
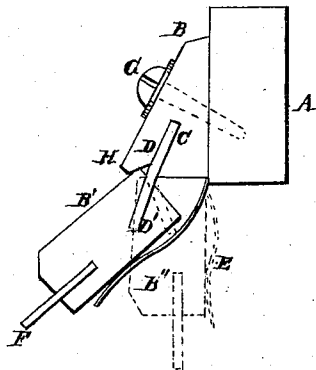


Fig. 3.



Inventor

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HORACE A. ROBISON, OF CLEVELAND, OHIO.

Letters Patent No. 100,074, dated February 22, 1870.

## IMPROVEMENT IN WEATHER-STRIP.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, HORACE A. ROBISON, of Cleveland, in the county of Cuyahoga, and State of Ohio, have invented a certain new and improved Weather-Strip; and I do hereby declare that the following is a full, clear, and complete description of the same, reference being had to the accompanying drawings making part of this specification, in which drawings—

Figure 1 is a front view.

Figure 2, a view of the opposite side of fig. 1.

Figure 3, an end view.

Like letters of reference refer to like parts in the several views.

My invention relates to an improvement in the weather-strip for which Letters Patent were granted to me December 24, 1867.

By said improvement the strip may be more easily adjusted to the door and sill, and the lower section will more readily turn or vibrate upon the elastic hinge in opening and closing the door; also, its general construction and arrangement is more durable, as hereinafter set forth, than that described in the aforesaid Letters Patent.

To enable others to understand the construction and operation of my improved weather-strip, I will proceed to describe it with reference to the annexed drawings.

A, in figs. 1 and 3, is designed to represent the part of a door to which the weather-strip is attached, which is composed of two sections, B B', and united by a continuous elastic spring-hinge, C, figs. 2 and 3.

This hinge allows the section B to adjust itself to the desired position, and extends the entire length of each section, as indicated by the dotted lines *c c* in grooves D D'.

These grooves are placed in an angular position in relation to the sections B B', as seen in fig. 3, in such way that the office of the hinge C will aid, in connection with the spring E, in moving out the section B' from B' to B, when the door is open, and also to connect the two sections together.

The hinge C of itself is not sufficient or durable enough to form a reliable hinge, hence the utility of the spring E.

When the door is closed, the section B' assumes the position indicated at B'', as there is a lug or stop attached to the door-casing against which the section B'

is brought in contact, and causes it to turn from B' to B'' in closing the door, so as to bring the rubber F in close contact with the door-sill for the purpose desired.

There may be one, two, or more springs E connected with the weather-strip in accordance with the width of the door or length of said strip.

The said spring is fastened to the upper section, leaving the free end to act on the lower section in moving it out, so as to turn upon the hinge C, as seen in fig. 3.

The strip is fastened to the door by means of screws G, figs. 1 and 3, which pass through oblong slots noted by dotted lines *a* in section B, fig. 1. By means of these slots the weather-strip may be readily adjusted to the door in the desired position, and secured with the screws.

The hinge C and rubber F may be fastened in their respective grooves by any desirable means suitable for the purpose.

It is found that the spring for moving out the section B', when made of rubber, becomes inoperative by the stiffening of the rubber and by displacement and by the action of the weather. In summer, when in exposed places, the rubber becomes so softened as to become unserviceable, and when subject to the influence of cold it soon loses its elasticity by becoming so hard and rigid as to render the weather-strip inoperative for the purpose desired.

But by the use of the spring E these objections are avoided, and a durable and elastic movement to the section B' is at all times insured.

From the lower part of section B is a lip, H, seen in fig. 3, which extends down and up over the upper part of section B', to exclude dust, rain, &c.

### Claim.

What I claim as my improvement, and for which I pray that Letters Patent may be granted, is—

The spring E, in combination with the sections B B', and the continuous elastic spring-hinge C, running the entire length of said sections in the angular grooves, arranged to operate conjointly substantially as and for the purpose set forth.

HORACE A. ROBISON.

Witnesses:

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