

J. M. Gray,

Weather Strip.

No. 101,448.

Patented June 21, 1870.

Fig. 1.

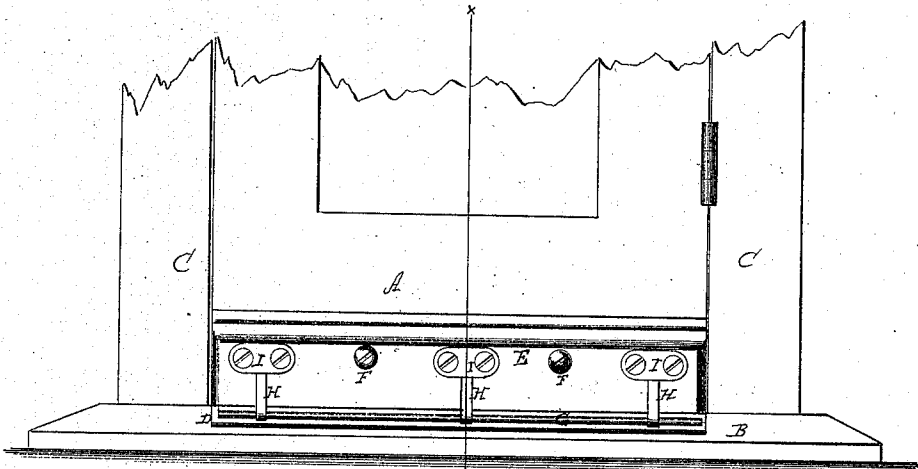
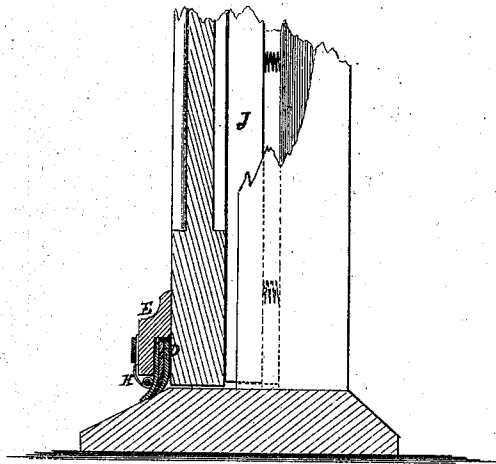


Fig. 2.



Witnesses:

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JEROME M. GRAY, OF HAMILTON, NEW YORK.

Letters Patent No. 104,448, dated June 21, 1870.

IMPROVEMENT IN WEATHER-STRIPS FOR DOORS.

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, JEROME M. GRAY, of Hamilton, in the county of Madison and State of New York, have invented a new and useful Improvement in Door-Strip; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

The object of this invention is to provide simple, durable, and efficient means for preventing wind and water from entering dwellings and other buildings, beneath and around outside doors; and

It consists in the use of one or more thicknesses of felt or cloth, or other pliable or elastic material, attached to the bottom strip at the lower portion of the door, supported and held in place by means of an adjustable spring rod, as hereinafter more fully described.

In the accompanying drawing—

Figure 1 represents a vertical section of an outside door provided with my door-strip.

Figure 2 is a vertical section of fig. 1. on the line *x z*.

Similar letters of reference indicate corresponding parts.

A represents the door.

B is the threshold.

C is the casing.

D represents strips or pieces of felt or cloth, or other equivalent material, (one or more in number,) tacked to the door-piece, and may be laid so as to overlap each other, if more than one thickness is used, as seen in the drawing.

The felt or cloth, or other material, is partly curved by the rebated piece of wood or metal E, which is fastened to the door by screws F F.

G represents a rod, which is supported by the adjustable springs H H.

These springs are confined to the piece E by the plate I, and may be raised or lowered for the adjust-

ment of the rod to the felt or cloth. Two or more of these springs may be used. The application of the rod and the form of the springs is seen in fig. 2.

By adjusting the rod to the felt, the wear of the felt and the inequalities in the threshold, caused by wear, are provided for, while the elasticity of the springs allows the door to be opened and closed without catching or other obstruction.

By this arrangement, the felt, cloth, and other material is kept in close contact with the threshold when the door is closed, thus effectually excluding wind and water.

In the casing thereof, on one or both sides, or over the top of the door, I insert an elastic rod or fillet, J, as seen in fig. 2. This fillet is placed in a groove in the casing, and made elastic by means of spiral springs, the tendency of which springs is to force the fillet out, so that it will adjust itself to the inside of the door, and form a tight joint therewith, for the exclusion of air and water.

The advantages of this whole arrangement for rendering an outside door tight, over the common weather-strip devices now in use, are many, and must be obvious to all.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. In combination with a door, the felt or cloth, or other material D, adjustable rod G, and springs H, arranged substantially as and for the purposes herein shown and described.

2. The rebated piece E, in combination with the felt D, rod G, and springs H, substantially as and for the purposes described.

The above specification of my invention signed by me this 16th day of February, 1870.

JEROME M. GRAY.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS.