(No Model.)

D. D. MAYFIELD.

WEATHER STRIP.

No. 483,076. Patented Sept. 20, 1892.

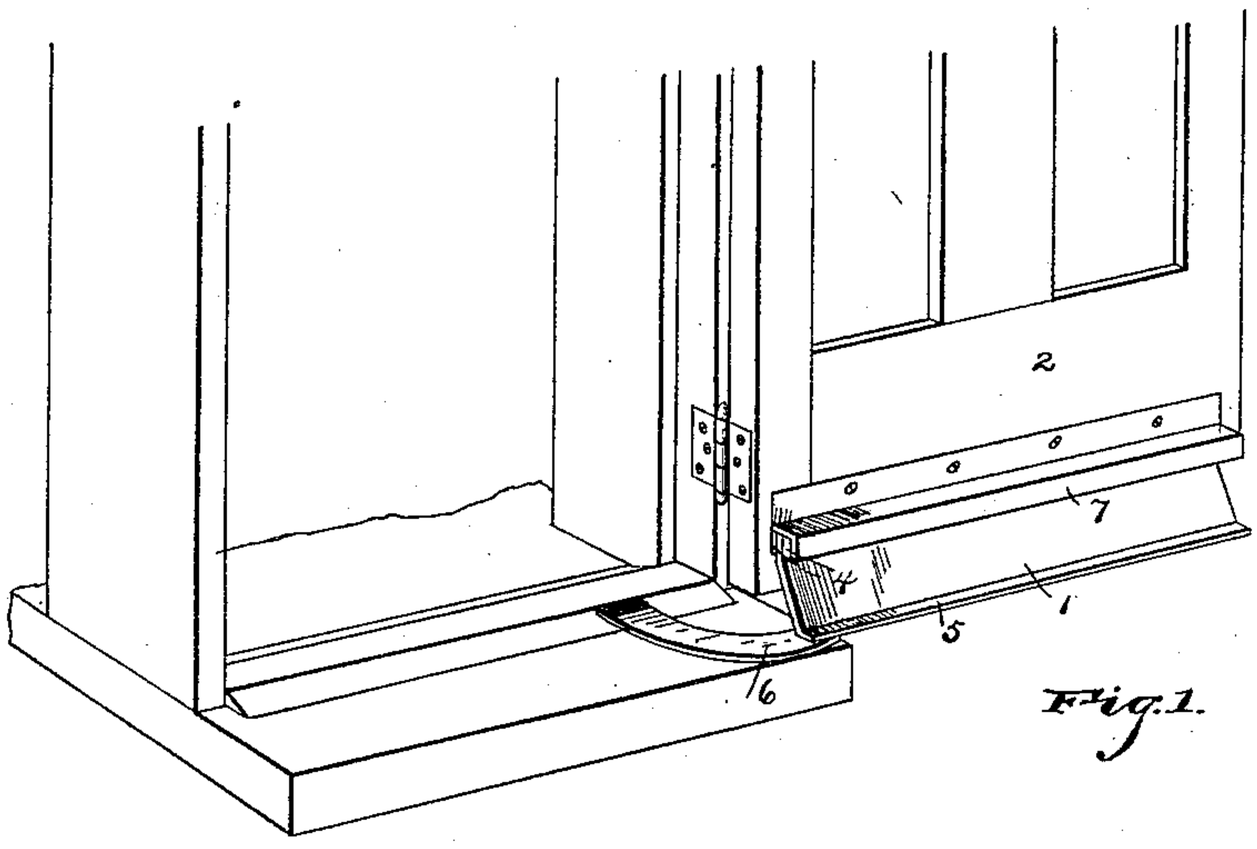
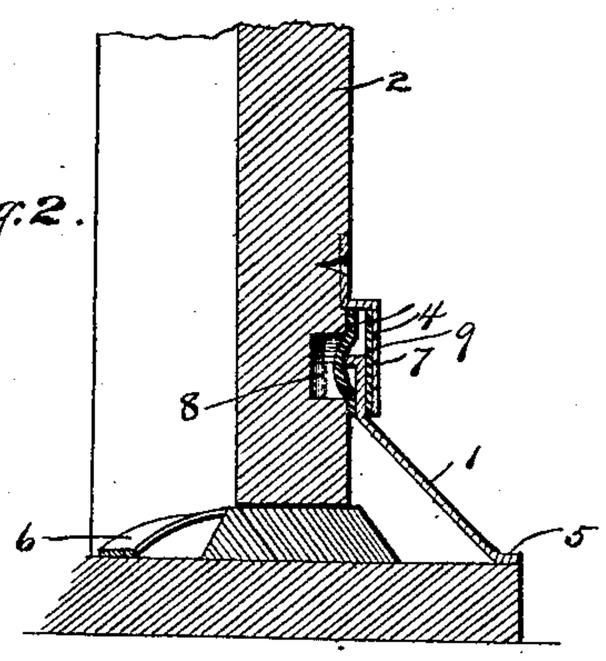


Fig. 1.

Fig. 3.

Fig. 2.



Witnesses

B. S. Ober

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Inventor

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UNITED STATES PATENT OFFICE.

DANIEL D. MAYFIELD, OF SULLIVAN, INDIANA.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 483,076, dated September 20, 1892.

Application filed February 16, 1892. Serial No. 421,706. (No model.)

To all whom it may concern:

Be it known that I, DANIEL D. MAYFIELD, a citizen of the United States, residing at Sullivan, in the county of Sullivan and State of Indiana, have invented a new and useful Weather-Strip, of which the following is a specification.

The invention relates to improvements in weather-strips.

The object of the present invention is to simplify and improve the construction of weather-strips and to provide one which will exclude the weather and which will be noiseless and will readily pass over the carpet and sill as the door is being closed.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a portion of a door and door-frame provided with a weather-strip constructed in accordance with this invention. Fig. 2 is a vertical sectional view. Fig. 3 is a horizontal sectional view.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 designates a weather-strip constructed of sheet metal and having its upper edge bent at a slight angle and secured to a door 2 by screws 3 or similar fastening devices and having its body portion extending downward from the door at a slight inclination. The upper edge of the strip has arranged on its inner and outer faces elastic strips 4, of rubber or similar material, which strips serve to exclude the air and also render the weather-strip noiseless and preventing any rattling usually caused by wind or the opening and shutting of the door. The elastic strips also permit the weather-strip to move sufficiently to enable it to rise to its proper position on the sill of a door, as the elastic strips are arranged on both faces of the weather-strip at the upper edge, and the straight fastening devices pass through the rubber strips and the weather-strip and provide a yielding cushion at each side of the weather-strip at the point of fastening, whereby when the weather-strip is swung up or down the elastic cushion-strips will be compressed to permit the swinging movement and after such swinging will expand to retain the weather-strip in proper position. The elastic strips hold the lower edge of the weather-strip firmly down upon the sill.

The lower edge of the weather-strip is bent slightly to form a flange 5, and the inner end of the flange, which is adjacent to the hinged edge of the door, is adapted to engage a curved plate 6, which is arranged at a slight inclination and serves to carry the weather-strip over the edge of a carpet and over the sill to its proper position on the same.

The upper edge of the weather-strip is covered by a metallic casing-strip 7, constructed of sheet metal and secured to the door by screws and having its upper edge countersunk in the door, so as to shed water more effectually.

It will be seen that the door-strip is simple and comparatively inexpensive in construction and that it is noiseless and effective in operation.

The door 2 is provided with a recess 8, which is covered by the inner elastic strip 4, and which forms a central cushion to be engaged by an inwardly-projecting flange 9, arranged at the middle of the weather-strip. This construction greatly facilitates the noiseless hinging of the weather-strip.

What I claim is—

1. The combination, with a door, of a weather-strip constructed of sheet metal and having its upper edge bent at a slight angle and arranged on the door, elastic strips arranged on the inner and outer faces of the upper edge of the weather-strip and disposed opposite each other, and straight fastening devices passing through both the elastic strips and the weather-strip and securing the latter to the door, said elastic strips providing a cushion at each side of the weather-strip at the point of attachment and adapted to yield to permit the weather-strip to have a swinging movement and to expand to hold the weather-strip firmly in contact with the door-sill, substantially as described.

2. The combination, with a door provided

with a recess, of a weather-strip constructed of sheet metal and having its upper edge secured to the door and provided with a flange arranged opposite the recess, elastic strips arranged on the inner and outer faces of the upper edge of the weather-strip, the inner one of the elastic strips extending over the recess and forming a cushion, and the metallic casing-strip secured to the door and arranged above the weather-strip, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

DANIEL D. MAYFIELD.

Witnesses:
W. M. DRAPER,
WM. CURTIS.