J. R. Mills.

Weather Strip.

No. 76,793. Patented Apr. 14, 1868.

Fig. 2.

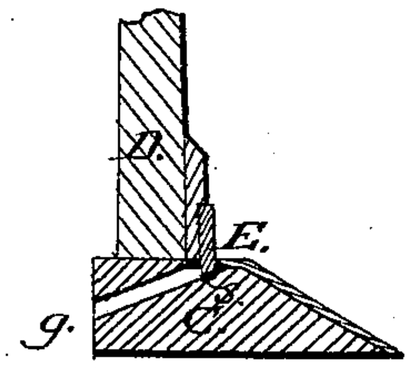
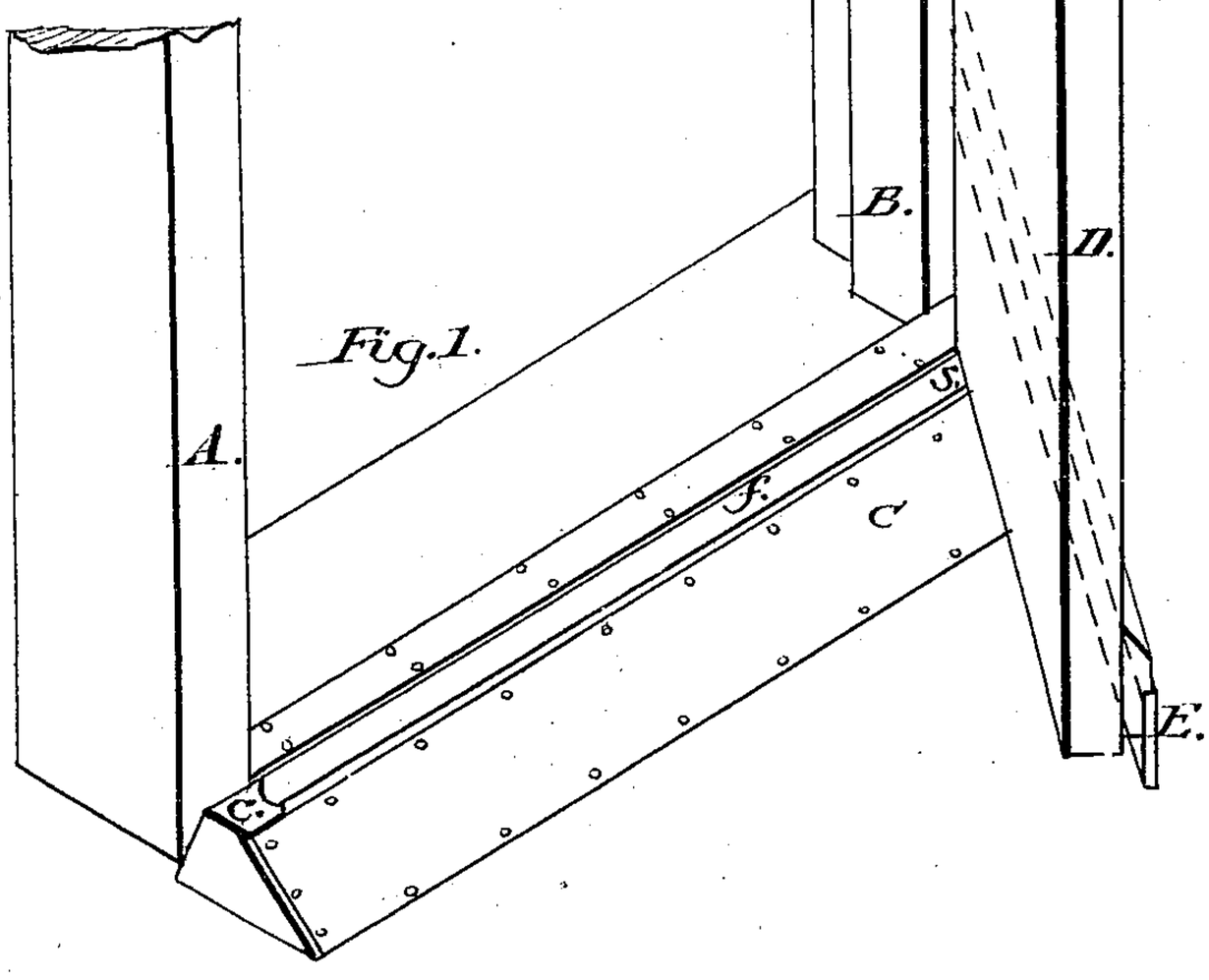


Fig. 1.



Witnesses:
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C. A. Pettit

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by Attorneys.

United States Patent Office.

JAMES R. MILLS, OF MACON CITY, MISSOURI.

Letters Patent No. 76,793, *dated April* 14, 1868.

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, JAMES R. MILLS, of the city and county of Macon, and State of Missouri, have invented a new and useful Improvement in 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, forming part of this specification, and in which—

Figure 1 represents a perspective view of my invention, the door being shown partly open, and

Figure 2 represents a transverse section of the same with the door closed, giving an end view of the elastic band at E.

Similar letters of reference indicate corresponding parts in the two figures.

The object of this invention is to prevent the weather, or, in other words, the wind and rain and snow from being driven under doors into dwellings.

It consists, in the first place, of a strip or piece of wood placed upon a door-sill, or it may be a piece of timber of sufficient depth and solidity to serve as a door-sill, having a groove cut longitudinally in its upper surface, extending the full width of the doorway, and increasing in depth from one end to the other, so that by the inclination thus presented in the bottom of the groove, the water which comes under the door will flow to one side, (of the doorway,) where, by a notch cut in the outer ledge of the groove, or by a spout inserted, it will be returned out of doors; or said strip, with its inclined groove and notch or spout, as described, may consist of an iron casting.

To prevent the rain and wind from passing across or over the groove into the room, a rabbet is cut across the bottom of the door on the inside, into which is placed, and fastened securely to the door, a strip or band of India rubber or other elastic substance, having its lower edge projecting somewhat below the bottom of the door.

As the door is closing, this projecting edge of rubber is compressed in width by pressure on the door-sill; but when the door is fully closed, by its own elastic force it extends down within the inner edge of the groove, thus effectually barring all passage to wind and weather.

A B, in fig. 1, are the jambs of the doorway; D the door, suspended to the jamb B in the usual way; C C a strip of wood or other material placed under the door, having formed in its surface the groove *f*, increasing in depth towards the jamb B, near which is the aperture or spout *g*, for the purpose of conveying the water which may come in, outward again.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with a weather-strip, placed underneath a door, and having in its upper surface a groove extending the full width of the doorway, and increasing in depth from one side of the doorway to the other, and having a notch or spout in the outer ledge of the groove, at the deepest end, for the purpose of letting the water outward, the elastic band E, made of rubber or other material, and applied to the bottom of the door in such a way as that when the door is shut, the free edge of the band shall extend down into the edge of the groove, in the manner and for the purpose specified.

To the above specification of my improvement I have signed my hand, this 30th day of August, A. D. 1867.

JAMES R. MILLS.

Witnesses:

J. F. ROBINSON,

JOHN MAYER.