H. W. LENT.

WEATHER STRIP.

APPLICATION FILED NOV 10, 1915.

1,245,473. Patented Nov. 6, 1917.

Fig -1-

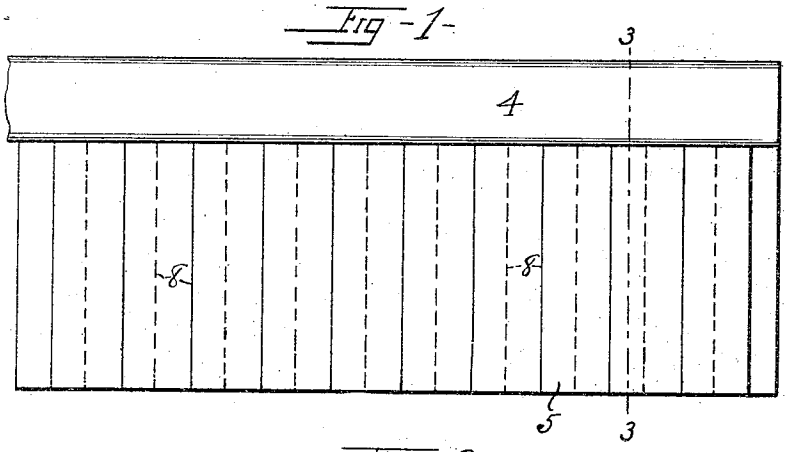
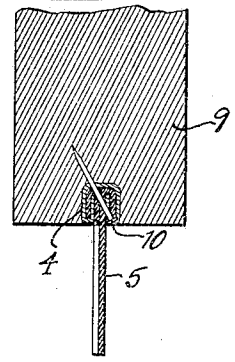


Fig -2-



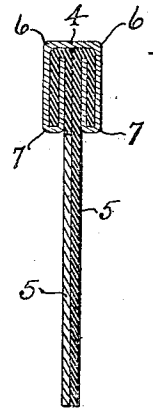


Fig -3-

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WEATHER-STRIP.

1,245,473. Specification of Letters Patent. Patented Nov. 6, 1917.

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To all whom it may concern:

Be it known that I, HENRY WEBSTER LENT, a citizen of the United States, residing at Jacksonville, in the county of Athens and State of Ohio, have invented certain new and useful Improvements in Weather-Strips, of which the following is a specification.

This invention relates to the class of wooden buildings, and more specifically to improvements in weather-strips.

The object of my invention is to provide a flexible weather strip that may be secured to the bottom edge of a door in such manner as to be entirely inobservable from above. My strip is so constructed and placed that it will not interfere with the opening and closing of the door, yet will make a sufficiently tight seal between the door and the carpet strip to keep out cold air, dust, and fumes, and also exclude insects that otherwise could crawl into a house.

My device is extremely simple in construction, durable, economical in manufacturing cost, and readily fitted to any door, inside or outside.

Other objects of this invention not at this time more particularly enumerated, will be clearly understood from the detailed description and drawings forming a part of this specification.

Furthermore, this invention consists in the novel arrangement and combination of parts more particularly described in the following specification and embodied in the claim appended hereunto and forming a part of this application.

Referring now to the drawings, which are merely illustrative of my invention,

Figure 1 is a side elevation of my weather-strip.

Fig. 2 is a vertical sectional view of my device applied to the bottom of a door, illustrating the method of nailing.

Fig. 3 is a vertical sectional view of the strip taken on the line 3—3 of Fig. 1.

Referring further to the drawings, wherein similar reference characters designate similar parts throughout the respective views, 4 designates a sheet metal strip which is so folded along the length thereof as to secure two flexible members 5, which may be leather, rubber, cloth, or the like.

The two longitudinal sides of the metal strip 4 are folded inwardly at 6 toward each other, one each of the flexible members 5 being placed adjacent the inside face of each side of said metal strip, the edge of said member being centrally disposed with respect to the width of the folded portion of the strip and extending along the length thereof. The free ends of said metal strip are then folded inwardly at 7 toward the central portion of the strip, the outer faces of the strip being compressed thereby causing the metal strip to securely grip the flexible members.

Each of said flexible members 5 is cut inwardly at 8 to the point where the member is bound by the folded metal strip, said cuts in one of the members being arranged in staggered relation with respect to the cuts in the other of said members.

The cuts in one of said strips alternate with respect to the cuts of the other said strips providing a tortuous passage to prevent the seepage of air upon the buckling of one of the sections by the opening or closing of the door or after the door is in a closed position.

To apply my device to the bottom edge of a door 9, as shown in Fig. 2 of the drawings, a slot is cut centrally along the length of the bottom edge, into which the folded metal strip 4 is adapted to be inserted. Said strip is secured therein by nails 10 driven obliquely through the folded metal strip and into the door.

The utility, adaptability, and advantages of my improved form of weather strip being obvious, it is unnecessary to further enlarge upon the same herein.

Having now described and pointed out the new and useful features of my invention, I do not limit myself to the shape of certain parts where the shape is not essential, nor do I restrict myself to the exact details of construction shown and described, but mean and intend to claim all equivalents and variations thereof, not departing in principle from my invention, and falling within the purview of the appended claim.

What I claim as my invention and desire to secure by Letters Patent is:

In a device of the class described the combination with a door having a longitudinally extending groove in the lower edge thereof, of a sheet metal member bent to conform with said groove, a pair of flexible members

folded longitudinally and inserted in the groove, the free edges of said metal strip being bent to retain one fixed edge of each of the flexible members in the desired position, each of said flexible members having cuts extending inwardly from the free edge thereof, the cuts in one of said strips alternating with respect to the cuts in the other, said strips providing a tortuous passage to prevent the seepage of air upon the buckling of one section.

In testimony whereof I affix my signature hereto.

HENRY WEBSTER LENT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."