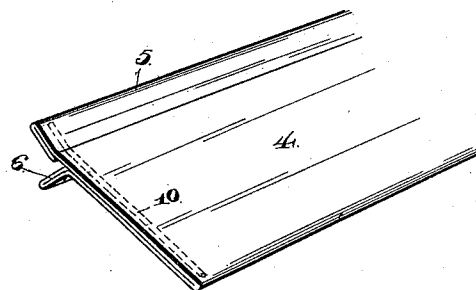
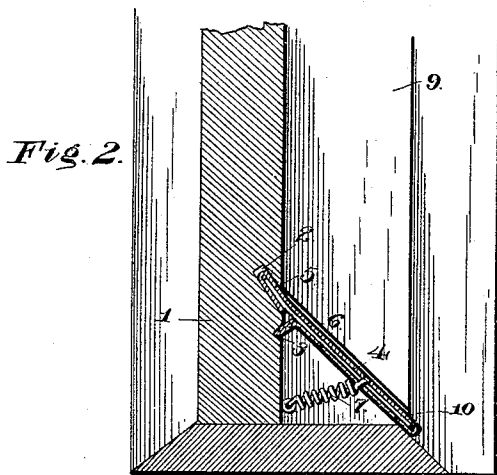
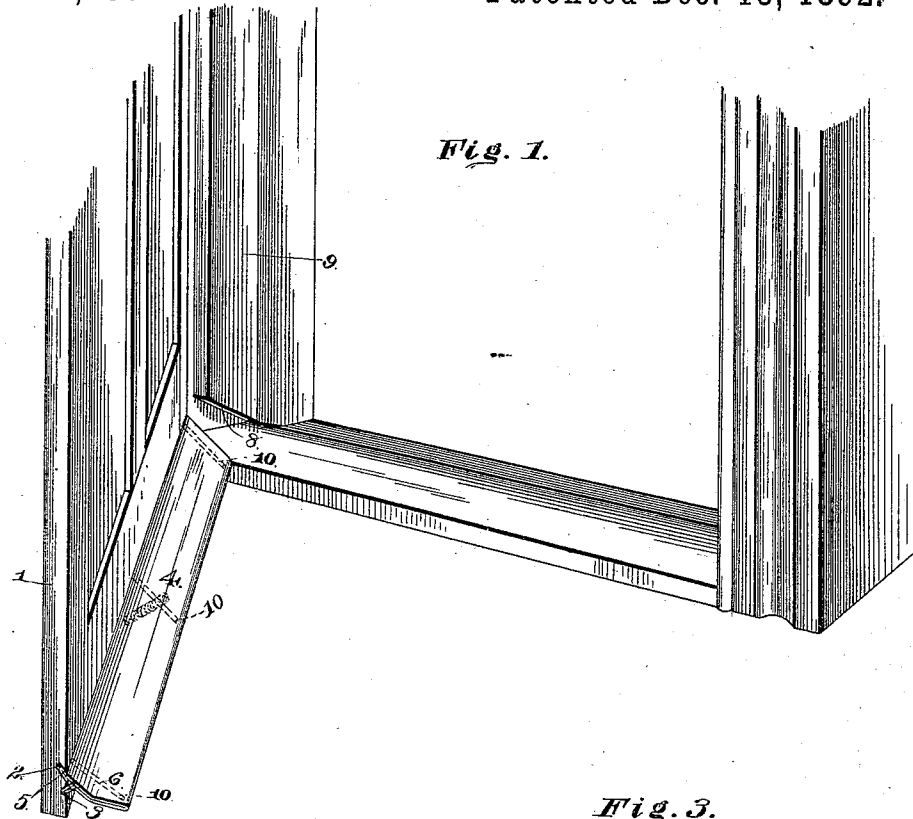


(No Model.)

O. A. GALLATIN.
WEATHER STRIP.

No. 487,830

Patented Dec. 13, 1892.



Witnesses.

Chas. A. Ford.
H. H. May

Inventor
Oliver A. Gallatin.

By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

OLIVER A. GALLATIN, OF GALT, MISSOURI.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 487,830, dated December 13, 1892.

Application filed April 30, 1892. Serial No. 431,270. (No model.)

To all whom it may concern:

Be it known that I, OLIVER A. GALLATIN, a citizen of the United States, residing at Galt, in the county of Grundy and State of Missouri, have invented a new and useful Weather-Strip, of which the following is a specification.

The invention relates to improvements in weather-strips.

10 The object of the present invention is to simplify and improve the construction of weather-strips and to provide one which will be strong and durable and which may be readily applied to a door.

15 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.

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

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

1 designates a door provided near its lower edge with an upwardly-inclined slot 2 and an oppositely-disposed recess 3, forming a downwardly-inclined face, and secured in the slot and in the recess is an inclined weather-strip 4, having its upward edge 5 arranged in the slot and provided on its lower face with a downwardly-inclined flange 6, arranged in the recess and engaging the shoulder formed thereby.

30 The weather-strip is constructed of a single piece of sheet metal doubled on itself and having the lower portion of the fold bent downward to form the flange.

40 The weather-strip is held in position on the door by a spiral spring 7, arranged at the center of the strip and having one end secured to the strip and the other end attached to the door, and it serves to draw the weather-strip inward toward the door. When the door closes, it carries the weather-strip, which inclines downward and outward in the usual manner, against lower beveled ends 8, abutting strips 9 of the door-jamb. The beveled end of these strips carry the weather-strip down upon the sill and holds it there in po-

sition to exclude wind, rain, dust, and the like. 55

When the door is open, the weather-strip is held up above and out of contact with the carpet by springs 10, arranged at the ends and the middle of the weather-strip. 60

It will be seen that the weather-strip is simple and comparatively inexpensive in construction, strong and durable, and adapted to be readily applied to a door.

The springs 10 are arranged between the folds of the metal of the weather-strip, and they strengthen, support, and impart resiliency to the weather-strip and enable the same to spring upward and be held above the carpet when the door is being opened. 70

What I claim is—

1. The combination, with a door provided with an upwardly-inclined slot and having an oppositely-disposed recess, of a resilient weather-strip constructed of metal and having its upper edge arranged in the slot and rigidly connected to the door and provided on its lower face with a downwardly-inclined flange arranged in the recess of the door, substantially as described. 80

2. The combination, with a door provided with an upwardly-inclined slot and having an oppositely-disposed recess, of a weather-strip constructed of a single piece of sheet metal folded on itself and having its upper edge arranged in the slot and having the lower portion of the fold bent downward to form a flange and arranged in the recess of the door and a spring secured to the weather-strip and the door and holding the former in position, substantially as described. 90

3. The combination, with a door provided with a slot, of a weather-strip constructed of folded sheet metal, straight springs arranged within the folds of the weather-strip to impart resiliency to the latter, and a spiral spring having one end attached to the door and the other end connected to the weather-strip and securing the latter to the door, substantially as described. 100

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

OLIVER A. GALLATIN.

Witnesses:

J. W. MAGEEHAN,
CHARLIE BUTLER.