

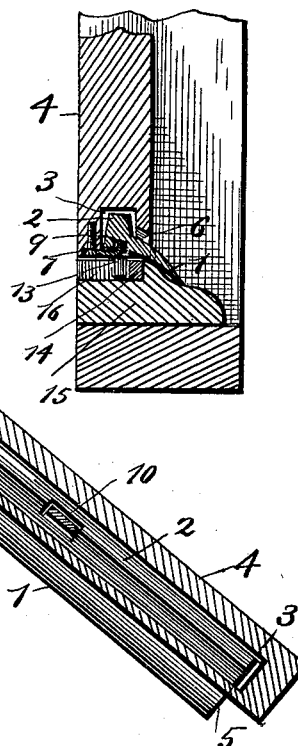
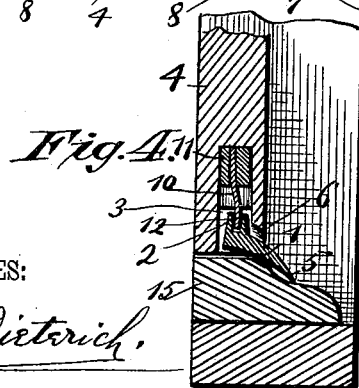
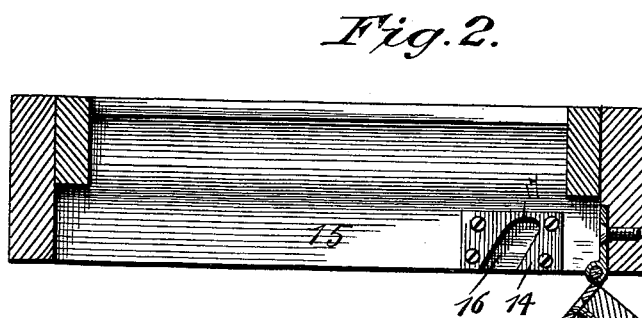
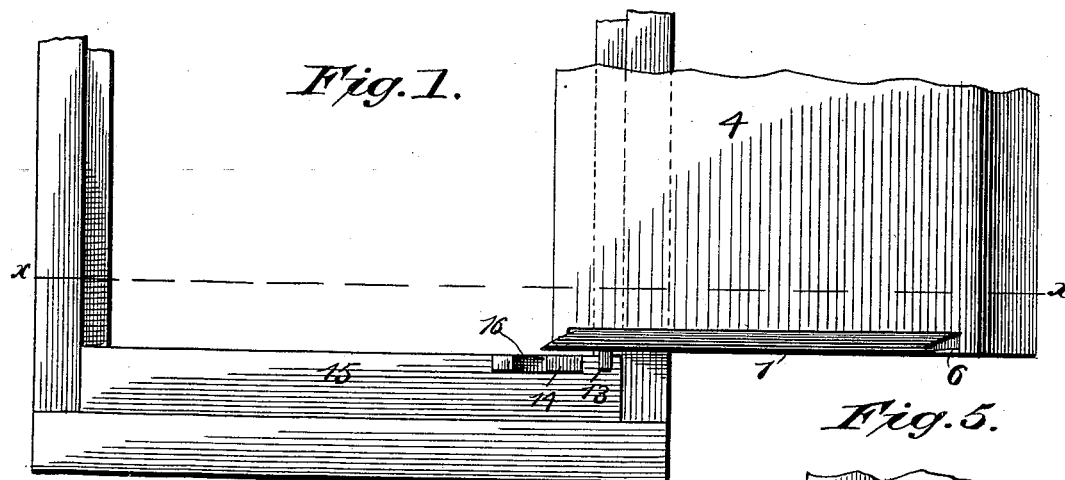
(No Model.)

R. C. REDMAN.

WEATHER STRIP.

No. 386,267.

Patented July 17, 1888.



WITNESSES:

Phil. C. Dietrich,
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UNITED STATES PATENT OFFICE.

ROBERT C. REDMAN, OF SALEM, OREGON.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 386,267, dated July 17, 1888.

Application filed February 29, 1888. Serial No. 265,654. (No model.)

To all whom it may concern:

Be it known that I, ROBERT CRAIG REDMAN, of Salem, in the county of Marion and State of Oregon, have invented a new and Improved Weather-Strip, of which the following is a full, clear, and exact description.

This invention relates to an improvement in weather-strips, and has for its object to provide a weather-strip which will be easily closed against a threshold and tightly held there when the door is shut, and which will readily clear the threshold when the door is opened.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 represents, with parts broken away, the invention applied to an open door. Fig. 2 is a horizontal section on the line *x x*, Fig. 3 is an inverted plan view of the lower edge of a door with the invention applied. Fig. 4 is a detail view in vertical section of the operating-spring connection, and Fig. 5 is a detail view in vertical section of one of the supports for the weather-strip.

1 indicates the weather-strip, formed with a vertical portion, 2, projecting into a recess, 3, in the lower edge of door 4, and a portion, 5, extending at an angle thereto and projecting through a recess, 6, in the lower edge of one side of the door. The weather-strip 1 rests on lugs 7, secured by screws in recesses 8 in the lower edge of the door, so as to be flush therewith, and projecting into recesses 9 in the weather-strip. To hold the latter up when the door is open and when it is moving over the threshold, a spring, 10, is secured to a block, 11, fastened in the upper part of recess 3, and projects into a slot, 12, in the portion 2 of weather-strip 1.

Upon the lower side of weather-strip 1, adjacent to its end near the hinged side of the door, is located a pin, 13, which engages a slotted plate, 14, on the threshold 15 when the door is nearly closed, and thereby draws the weather-strip down close over the threshold.

The slot 16 of plate 14 is so cut out that when the door is being closed the pin 13, at-

tached on the under side of weather-strip near the lower hinge of the door, passes into slot 16 and bears against the end wall, 17, just before being closed. The act of pushing the door, so that the latch of the door-lock may pass into slot of door-frame, causes the pin 13 further to bear upon the end wall, 17, and thus tilt the weather-strip 1, so that its outer edge comes in contact with the threshold 15. (Shown in Fig. 4.) The spring 10 having been brought under tension in closing the door, it reacts when the door is opened and brings the weather-strip 1 back into its normal position, as shown in Fig. 1.

The plate 14 is let into the threshold to be flush therewith, and, being of metal, will stand the wear of pin 13. The strip may be applied to left-hand doors by locating the pin 13 at the other end of the weather-strip.

Two springs may be employed instead of the spring 10, and the form and arrangement of the parts may be varied without departing from the essential features of my invention.

By means of a weather-strip constructed in this manner the strip will not get out of order, will be durable, and will effectually render the lower edge of the door weather-tight.

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

1. A weather-strip consisting of an angular strip loosely pivoted in a recess in the bottom of a door and having a slot in the upper edge of one of its angular portions loosely engaging a depending spring in said recess, and its other angular portion projecting outward through a recess in the door and having a pin adapted to engage an inclined slot in a plate on the threshold, substantially as described.

2. A weather-strip comprising the following parts: an angular strip loosely pivoted on a support in the bottom of a door, with one of its angular portions projecting upward into a recess in the lower edge of the door and the other angular portion projecting outward through a recess in the lower edge of the door, a depending spring loosely engaging a slot in the first-named angular portion, and a

plate on the threshold having an inclined slot with which a pin in the weather-strip engages, substantially as described.

3. In a weather-strip, the combination, with
5 threshold 15, having plate 14, with inclined slot 16, of door 4, having recess 3, strip 1, located in said recess, with portion 2, having slot 12, engaging spring 10, secured to block

11, and portion 5, projecting through recess 6 and having depending pin 13, and the recesses 9, engaging supporting-lugs 7, secured in recesses 8, substantially as described.

ROBERT C. REDMAN.

Witnesses:

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JOHN A. McCARL.