F. DAVIS.

WEATHER-STRIP.

No. 186,714. Patented Jan. 30, 1877.

Fig. 1.

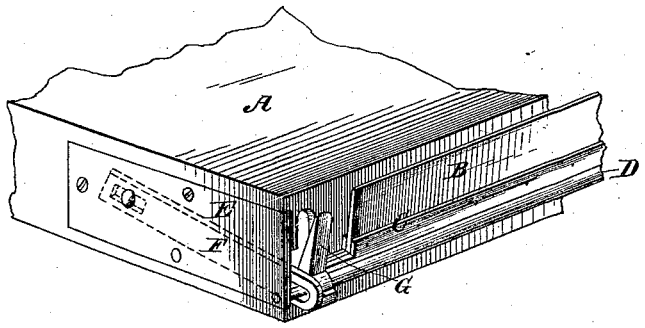


Fig. 2.

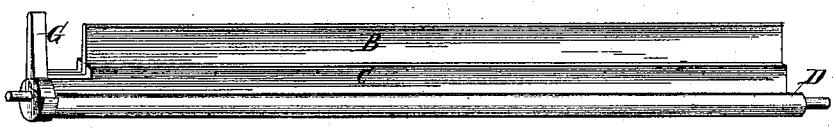


Fig. 3.

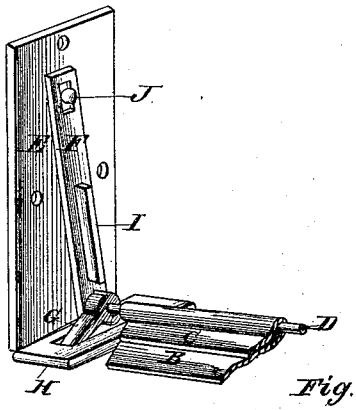


Fig. 4.

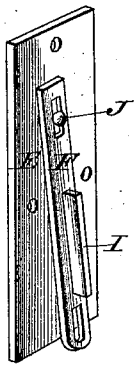
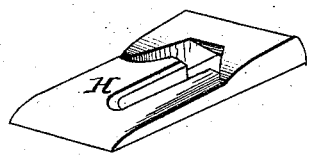


Fig. 5.



Witnesses.

J. L. Rowe

A. M. Ketchum.

Inventor.

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per David Daggett Attorney

UNITED STATES PATENT OFFICE.

FRANK DAVIS, OF NORTH ADAMS, MASSACHUSETTS.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **186,714**, dated January 30, 1877; application filed November 11, 1876.

To all whom it may concern:

Be it known that I, FRANK DAVIS, of the village of North Adams, in the county of Berkshire, in the State of Massachusetts, have invented a new and useful Improvement in a Combined Weather-Strip and Threshold for Doors, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

Figure 1 shows a perspective view of a section of the door, with the weather-strip attached. Fig. 2 shows the weather-strip and notched tongue. Fig. 3 shows the weather-strip and its connection with the tongue, and slotted slide, and slotted shoe, and iron plate. Fig. 4 shows the slotted slide attached on the inside of the plate by a pivot. Fig. 5 shows the slotted shoe, which can be adjusted by starting the screw and moving the shoe forward or back.

The object of my invention is to produce a cheap and substantial weather-strip, to attach to the lower edge of doors in dwelling-houses, for the purpose of preventing the ingress of cold air, snow, rain, and dust into the hall or room, and also to attach to the inner doors of buildings, as a substitute for what is commonly called "thresholds."

The strips are combined with a rod running through them lengthwise, and the rod pivoted to plates of iron attached to the door at either end. The metal strips are bent over the rod, and the rubber cloth is inserted in the metal like a clamp, rivets being put through and clinched to hold it, or it may be secured by indenting the metal into the rubber, instead of riveting them together, and are hung in a concavity in the lower edge of the door.

The strip being thus made of a substantial material, is thus rendered thin, and does away with the necessity of cutting away the door, thus weakening it and rendering it liable to break off at the edges.

A notched tongue is arranged to the rod, and in connection with the pivoted or slotted slide, and is so arranged at the bottom that, when the door is being closed the slotted slide is raised by coming in contact with the shoe, which motion releases the notched tongue and allows it to enter the aperture in the shoe, thereby turning the weather-strip down to a proper position for closing the opening beneath the door.

When the door is being opened the tongue is raised by coming in contact with the slotted shoe, so as to let the slotted slide drop into the notch in the tongue, thereby holding the strip to its place in the concavity in the door while the door is ajar or wide open.

The strips are constructed of metal and rubber cloth, and can be made at a moderate cost, and are not liable to get out of order. Each strip is reversible, and may be applied without alteration to right or left hand doors.

A in the drawings represents a corner section of the door broken off. B represents the rubber cloth clamped by the metal. C represents the galvanized iron or metal inclosing the rod D. D represents the rod, passing through the galvanized iron C, and pivoted at either end to plates E. E represents one of two plates, attached to the door, a supporting-rod, D, and slotted slide, F, at pivot J. F is the slotted slide, connected to plate E by pivot J. G represents the notched tongue, notched to receive the projecting catch I, which acts as a stop and rest when it is inserted in the notch in the tongue G. H represents the shoe, which is slotted, so it may be adjusted to control the pressure on the tongue G, and turn down the strip more or less according to the size of the opening underneath the door.

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

The combination, with the rod D, metal C, rubber cloth B, tongue G, slotted slide F, slotted shoe H, plates E, connected and acting automatically, as and for the purposes set forth.

FRANK DAVIS.

Witnesses:
A. M. KETCHUM,
M. A. LANSING.