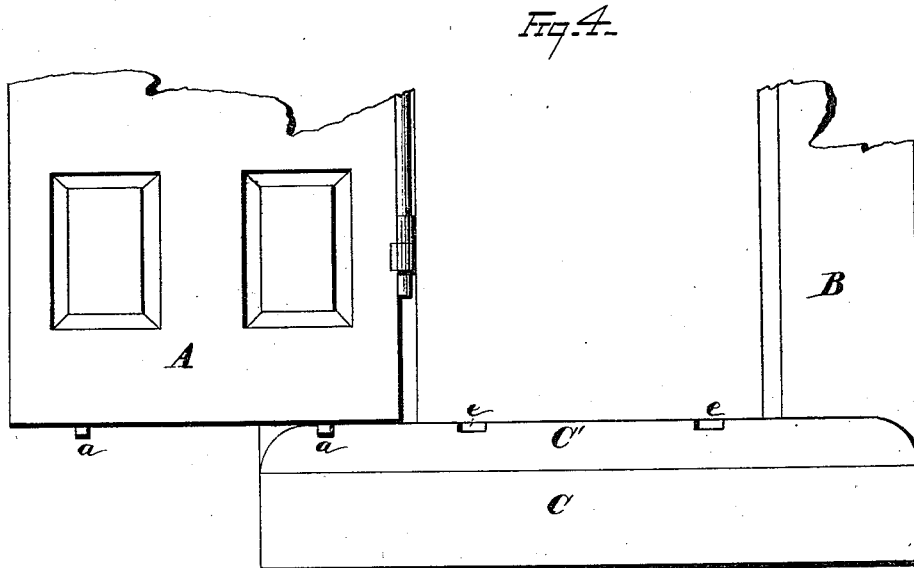
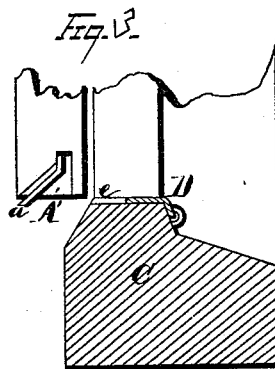
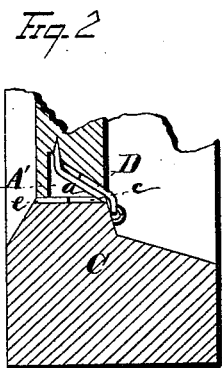
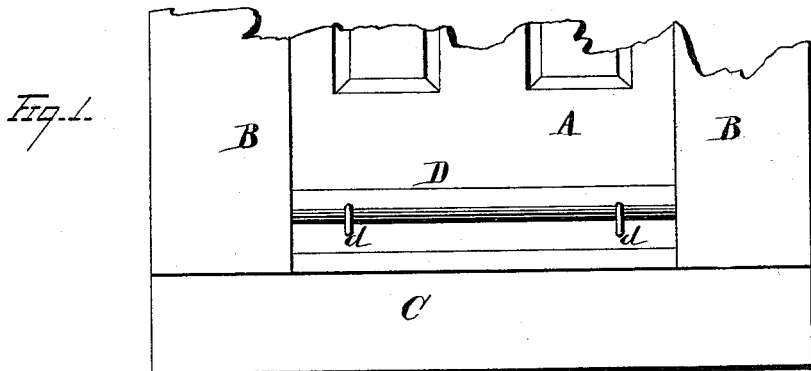


D. L. HOFFMAN & P. M. SHOEMATE

Weather-Strips.

No. 165,489.

Patented July 13, 1875.



WITNESSES
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UNITED STATES PATENT OFFICE.

DAVID L. HOFFMAN AND PARKER M. SHOEMATE, OF AULLVILLE, MISSOURI,
ASSIGNORS TO GEO. W. ENNIS, OF SAME PLACE.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. 165,489, dated July 13, 1875; application filed
February 1, 1875.

To all whom it may concern:

Be it known that we, DAVID L. HOFFMAN and PARKER M. SHOEMATE, of Aullville, in the county of La Fayette and State of Missouri, have invented certain new and useful Improvements in Weather-Strips or Thresholds; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

Our invention relates to certain new and useful improvements in weather-strips or thresholds.

In the drawings, Figure 1 is an inside or rear view of a portion of a door, its jambs, sill, and threshold provided with the weather-strip; Fig. 2, a transverse section of a door and sill, the door being closed; Fig. 3, the same, the door being open; Fig. 4, an outside view of a portion of the door, sill, and jamb, the door being thrown open.

Our invention consists in arranging and seating within the carpet-strip of a door a hinged weather-strip; also providing the bottom edge of the door with hooks or catches, which operate the weather-strip, and a groove within which the strip is housed when the door is shut, as hereinafter more fully set forth and claimed.

A is the door; B B, the side posts or jambs; C, the sill, and C' the carpet-strip. D is the weather-strip, hinged on the inside to the carpet-strip C' at *d d*. This strip C' is cut away or recessed along its top edge at *e*, to receive the weather-strip, which fits down snug into this recess *e*, the top part of the weather-strip being even and on a line with the top of the carpet-strip. Grooves or notches *e e* are also cut transversely across the top of the sill C'. Within the bottom edge and running its entire length of the door A is a deep groove or channel, A'. Within this groove and secured into the door are hooks or catches *a a* bent or curved rearward and projecting a slight distance below the door. These catches, as the door is closed, enter the gutters *e* and engage beneath the hinged strip D.

The operation of the device is as follows:

The parts are all in position and adjusted as above described, the weather-strip by its own weight lying close down in the recess *e*. On the door being closed the hooks *a a* enter the grooves *e e* and engage beneath the weather-strip D, lifting it up, and, as the door is still farther closed, carrying the strip up into the groove or channel A', as shown in Fig. 2, thus effectually closing the crack and preventing the entrance of wind, rain, &c., beneath the door.

The advantages of this device are its simplicity, cheapness, and operativeness.

By placing the strip in a recess provided for it in the sill or carpet-strip the weather-strip is placed out of the way, and it may be applied to doors that have very small cracks beneath them. Providing the slot or groove A' in the door and housing the strip therein avoid all unnecessary complications and multitudinous parts, making the device cheap, simple, and effective.

We are aware that a broad, curved plate provided with a hook has been placed on the bottom inside edge of doors, and the hinged weather-strip housed therein is old. This, therefore, we do not claim; but

What we do claim as new and of our invention, and desire to secure by Letters Patent, is—

1. In combination with the weather-strip D, hinged and laying in a groove or recess *e* in the carpet-strip C', the door A, provided in its bottom edge with a deep groove or gutter, A', and curved hooks or catches *a a*, as and for the purposes described.

2. The weather-threshold herein described, consisting of the hinged strip D *d*, recessed carpet-strip C' *c e*, and door A, the bottom edge of which is deeply slotted, A', and provided with hooks *a a*, all constructed, arranged, and adapted to operate, as and for the purposes set forth.

In testimony that we claim the foregoing we have hereunto set our hand this 23d day of January, 1875.

DAVID L. HOFFMAN.
PARKER M. SHOEMATE.

Witnesses:

MARCELLUS T. HARTMAN,
WILLIAM W. DOWNING.