

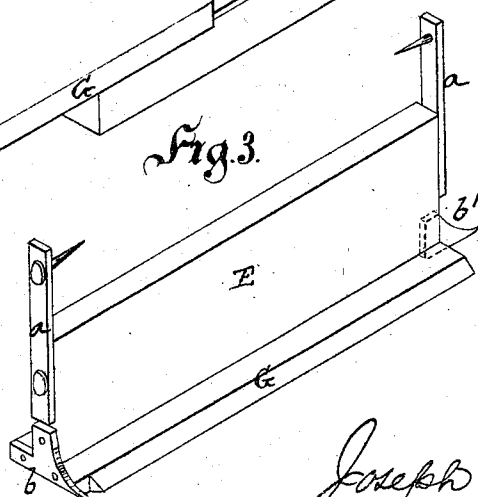
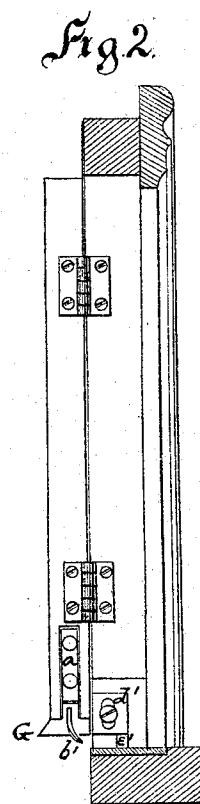
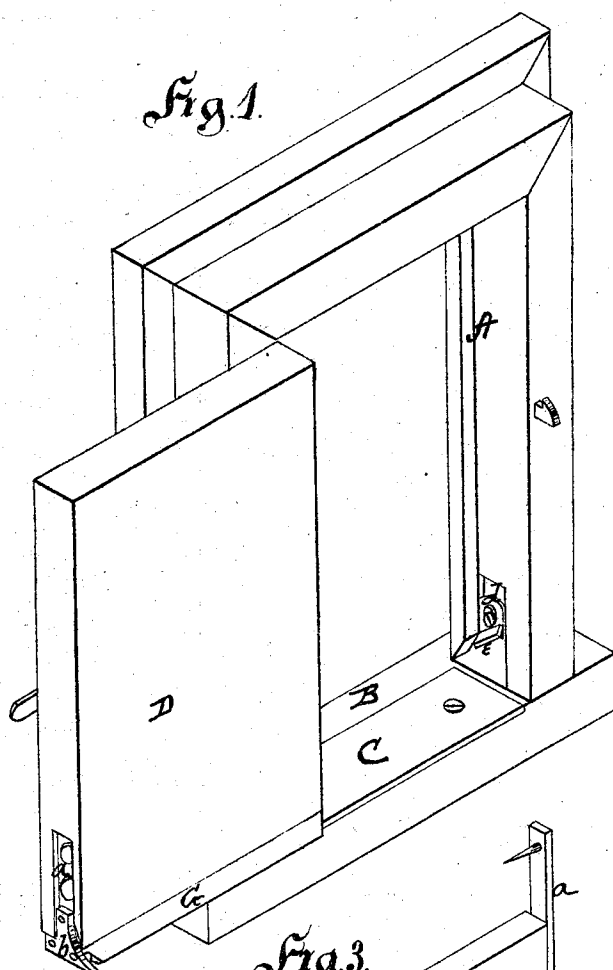
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JOSEPH M. DILS.

Improvement in Weather Strips.

No. 122,580.

Patented Jan. 9, 1872.



Witnesses:

*Jas. O. Hutchinson
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UNITED STATES PATENT OFFICE.

JOSEPH M. DILS, OF OSCEOLA, INDIANA.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. 122,580, dated January 9, 1872.

To all whom it may concern:

Be it known that I, JOSEPH M. DILS, of Osceola, in the county of St. Joseph and in the State of Indiana, have invented certain new and useful Improvements in Threshold and Weather Strip; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "combined threshold and weather strip," as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view, showing the door-frame and door with the threshold and weather strip. Fig. 2 is a transverse vertical section of the same, and Fig. 3 is an enlarged perspective view of the combined threshold and weather strip.

A represents the door-frame, and B the sill of the same. In the sill B is laid a metal plate, C, firmly secured to the same, the entire sill being so made as to be exactly level with the floor. D represents the door hinged in the usual manner to the frame A. In the lower edge of the door, extending the entire width and a suitable distance up into the same, is a slot, in which is inserted a slide, E, held at each side to the door by a rubber band, *a*, said bands being let into the edge of the door so as to not project beyond the same. To the lower edge of the slide E, or, as it might be termed, the tongue, is attached the threshold G, the two forming, as it were, one piece, supported and drawn up by the rubber bands *a a*, so that the threshold will, when the door is open, be close up against the lower edge of the door. Attached to the outer edge of the tongue and threshold is a plate, *b*, inclined on the edge outward from the door, as shown in Figs. 1 and 3; and corresponding with this plate, in

the side of the door-frame, is an adjustable plate, *d*, provided with an outward-projecting inclined flange, *e*, against which the inclined plate *b* will strike when the door is shut, and thus force the threshold downward against the sill-plate C. As soon as the door is opened far enough to clear the plate *b* from the flange *e*, the rubber band *a* at this end of the door draws the threshold up again. For the same purpose there is a curved inclined plate, *b'*, projecting outward from the inner end of the tongue and threshold, which plate, when the door is closed, comes against and under an adjustable plate, *d'*, attached to the inner side of the door-frame, the plate *b'* entering a hole, *e'*, made for that purpose in the door-frame.

By these means, it will be seen that when the door is closed the threshold is forced downward close to the sill-plate, while, when the door is open, it is raised close up to the lower edge of the door.

By making the plates *d d'* adjustable, the threshold may be brought as close to the sill as may be desired.

The movable threshold possesses a great many advantages in sweeping, mopping, carpeting, moving furniture, &c., which are too obvious to need any mention. It is, besides, not only a movable threshold for inside doors, but forms also a weather-strip for outside doors.

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

The threshold G and slide E, arranged at and in the lower part of the door D and suspended by the springs *a a*, in combination with the inclined plates *b b'* and the plates *d d'*, or their equivalents, all substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of October, 1871.

JOSEPH M. DILS.

Witnesses:

A. N. MARR,
J. C. ABBOTT.

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