J. S. Peterson.

Weather Strip.

No. 64,031. Patented Apr. 23, 1867.

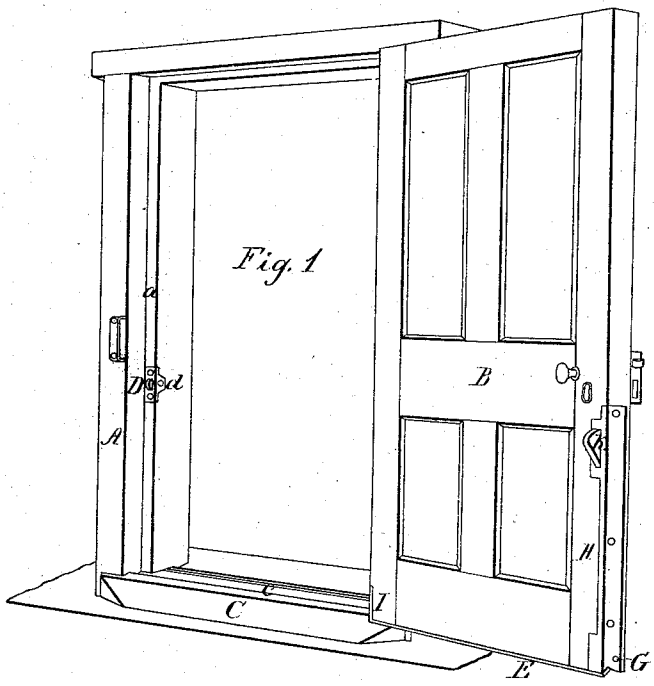

Fig. 1

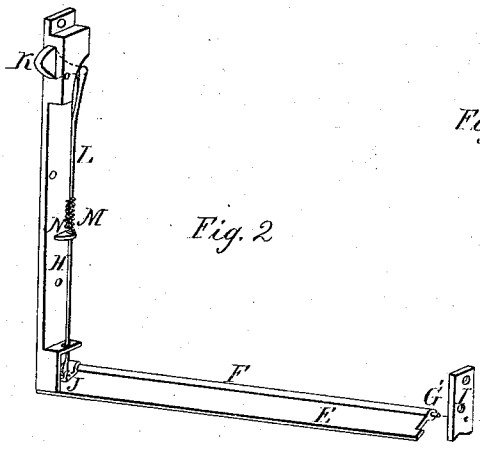

Fig. 2

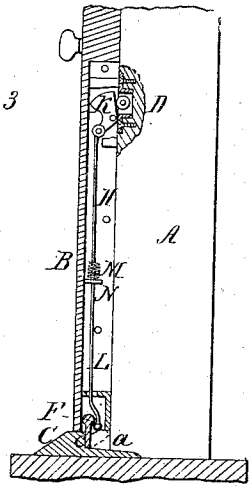

Fig. 3

Witnesses
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United States Patent Office.

JACOB S. PETERSON, OF SPRINGDALE, OHIO.

Letters Patent No. 64,031, *dated April* 23, 1867.

IMPROVED WEATHER-STRIP.

The Schedule referred to in these Letters Patent and making part of the same.

TO WHOM IT MAY CONCERN:

Be it known that I, JACOB S. PETERSON, of Springdale, in the county of Hamilton, and State of Ohio, have invented a new and useful Weather-Strip; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention is an improvement in the class of weather-strips which close automatically by the act of shutting the door, and is so arranged as to combine the following advantages: The strip or flap and its operating parts being all enclosed within the door, are free from exposure to the weather, and though easily accessible for repair or inspection, are not liable to become clogged with dirt and trash, nor to catch or tear the clothes. The strip is self-operating by the mere act of closing the door. The spring and cam which operate the strip, also assist in opening the door on turning the latch.

Figure 1 is a perspective view of a door embodying my improvement, the door being set open.

Figure 2 shows the weather-strip and its operative mechanism detached.

Figure 3 is a vertical section of the lower portion of the door in its closed position.

A represents a door frame, and B a door of ordinary construction. C is the carpet-sill rebated, *c*, on its outer side to afford a seat for the flap or strip. The jamb *a*, against which the door shuts, has mortised flush within it a journal box, *d*, of a roller or pulley, D, whose office will be presently explained. The strip or flap E has a cylindrical back, F, which closely hugs the mortise in the bottom of the door so as to keep out wind and rain, and which terminates in pivots G G′ journalled in plates H I, which are let into and screwed fast to the vertical edges of the door. Hinged to an ear, J, on the outer side of the flap E, and to a vibrating cam, K, pivoted to the upper part of the plate H, is a rod, L, provided with a spiral spring, M, whose upper end being fastened to the said rod, and whose lower end resting on a leg, N, restores and holds said rod and flap to their upper positions, and the cam K to its protuberant position whenever the door is opened, (see figs. 1 and 2,) and serves to assist in opening the door the instant that it is unlatched. In the act of closing the door, the cam K, striking the roller D, is forced into the door and depresses the rod L and flap E, so as to press the latter snugly against the rebate *c* of the carpet-sill C, and thus effectually exclude all wind and rain. For the more effectual exclusion of these elements, a strip or lining of India rubber may be applied along the face of the rebate *c*. An inferior modification of my invention may have a fixed object of metal or other hard substance in place of the roller D.

I claim herein as new, and of my invention—

The strip or flap E, adapted to close against the rebate of the carpet-sill by the impact of the cam K, and roller D, and to be retracted by means of a spring, M, substantially as set forth.

In testimony of which invention I hereunto set my hand.

JACOB S. PETERSON.

Witnesses:

GEO. H. KNIGHT,

JAMES H. LAYMAN.