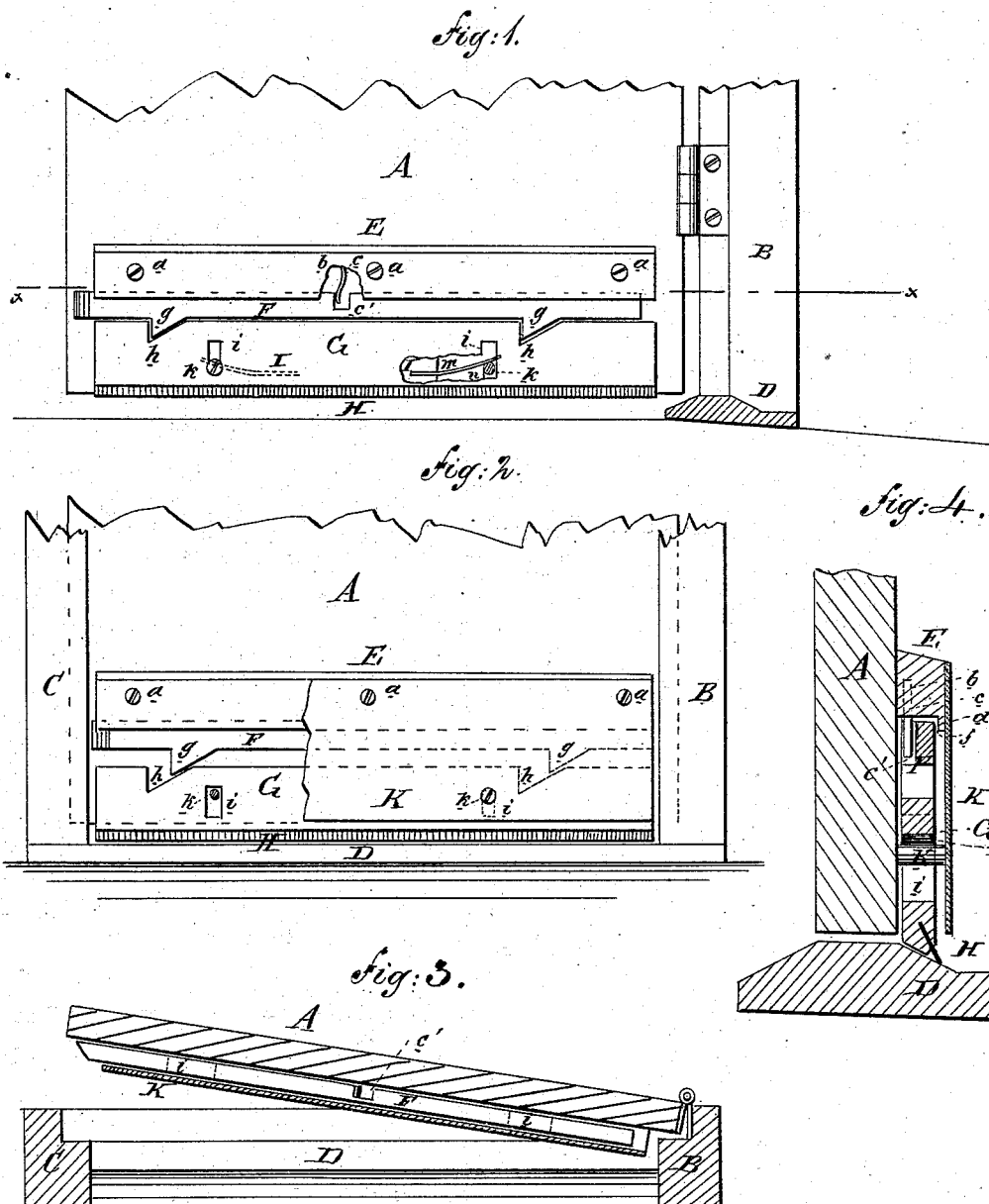


(No Model.)

J. E. GOWEN.
Weather Strip.

No. 237,516.

Patented Feb. 8, 1881.



WITNESSES:

Chas. N. Noyes.
C. Sedgwick

INVENTOR:

J. E. Gowen
BY *Mum Ho*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES E. GOWEN, OF PEABODY, KANSAS, ASSIGNOR TO HIMSELF AND
GEORGE TENNEY, OF SAME PLACE.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 237,516, dated February 8, 1881.

Application filed August 21, 1880. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. GOWEN, of Peabody, in the county of Marion and State of Kansas, have invented a new and Improved Weather-Strip, of which the following is a specification.

The object of this invention is to provide a self-adjusting weather-strip for doors.

Figure 1 is a front elevation of the device on an open door, with parts broken away to exhibit other parts. Fig. 2 is a front elevation of the device on a closed door, showing a portion of a covering-plate. Fig. 3 is a plan view on line *xx*, Fig. 1, and of the attached covering-plate. Fig. 4 is an enlarged vertical section of the same.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents a door hinged to the rear jamb, B. C is the front jamb, and D the door-sill.

E is a molding secured across the door A, near the bottom thereof, by screws *a a*, and having inserted in a central vertical socket, *b*, a spring, *c*, that projects downward below the edge of said molding E into a corresponding socket, *c'*, in the sliding bar F, and along its front edge the said molding E is provided with a downward-projecting lip, *d*, which, in combination with the door A, forms a groove, *f*, in which the upper edge of the sliding bar F moves.

On the lower edge of said sliding bar F are one or more (in this instance two) downward-projecting teeth, *g g*, whose forward edges are vertical or at right angles to said bar F, while their rear edges are inclined upward at an angle of about forty-five degrees. These teeth *g g* engage in corresponding recesses *h h* in the weather-strip proper, G, which consists of a strip of wood or metal having vertically-slotted screw or bolt holes *i*, through which pass the screws or bolts *k* that hold it to the door A, and is provided with a strip of rubber or other elastic material, H, that is in-

serted longitudinally and at an outward inclination in the lower edge of said strip G, so as to rest upon the sill D when the door A is closed.

Springs I I, held by pins *m* in suitable sockets *n* in the strip G, and having their free ends resting on the screws or bolts *k*, serve to force and hold up the said strip G when the door A is opened, the slotted screw or bolt holes *i*, permitting the vertical movement of said strip G.

When, in closing the door A, the forward end of the sliding bar F comes in contact with the door-jamb C, as shown in Fig. 2, the said bar F is pushed rearward with the effect of forcibly pressing the inclined planes of its teeth *g g* against the corresponding planes of the recesses *h h*, and thereby urging the weather-strip G downward and holding its elastic strip H in close contact with the sill D, as shown in Figs. 2 and 4. On opening the door A the tension of the spring *c* serves to restore the sliding bar F to its primary position, and the tension of the springs I I serves to restore the weather-strip G to its primary position, as shown in Fig. 1.

K represents a plate secured upon the molding E, and extending downward to cover the bar F and strip G.

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

The combination, with the door A and door-jamb C, of the molding E, provided with spring *c*, sliding bar F, provided with socket *c'* and teeth *g g*, having inclined edges, and weather-strip G, provided with elastic bottom strip, H, slotted screw-holes *i*, springs I I, and inclined recesses *h h*, and screws or bolts *k*, substantially as herein shown and described.

JAMES E. GOWEN.

Witnesses:

THOS. OSBORNE,
I. GROVER.