C. M. PACKER.
Weather-Strip.

No. 211,254. Patented Jan. 7, 1879.

Fig. 1.

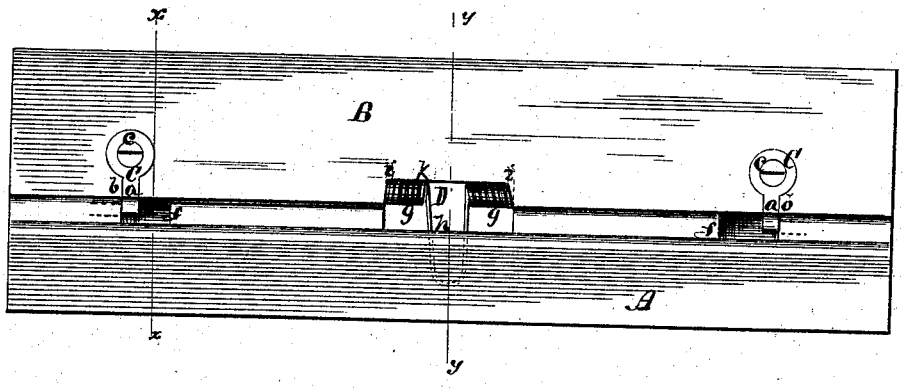


Fig. 2

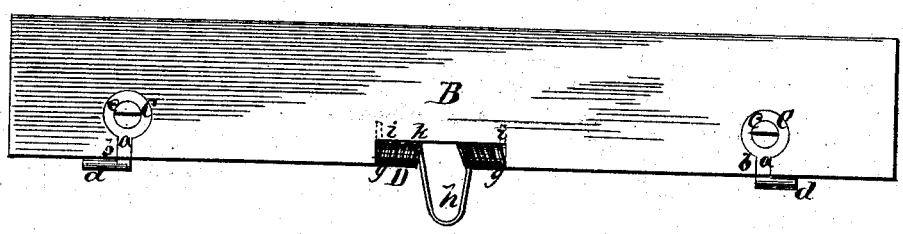


Fig. 3.

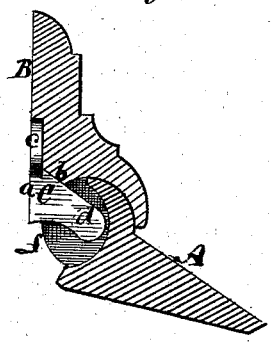
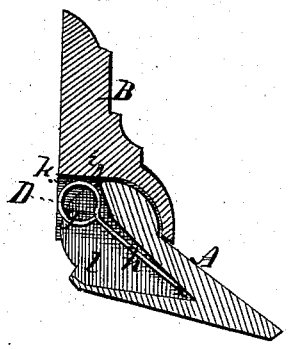


Fig. 4.



Witnesses
Thos. G. Dietrich

Inventor,
Clinton M. Packer,
By J. S. Brown,
his atty.

UNITED STATES PATENT OFFICE.

CLINTON M. PACKER, OF CAMBRIDGEPORT, MASSACHUSETTS.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **211,254**, dated January 7, 1879; application filed April 17, 1878.

To all whom it may concern:

Be it known that I, CLINTON M. PACKER, of Cambridgeport, in the county of Middlesex and State of Massachusetts, have invented an Improved Weather-Strip; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification—

Figure 1 being a view of the back side of the improved weather-strip; Fig. 2, a rear view of the upper or stationary strip, the movable strip being detached; Fig. 3, a cross-section of the weather-strip in a plane indicated by the line *x x*, Fig. 1; Fig. 4, a cross-section thereof in a plane indicated by the line *y y*, Fig. 1.

Like letters designate corresponding parts in all of the figures.

My improvement belongs to the class of door-strips in which a hinged strip is thrown forward and upward by a spring, to lift it from the floor, and is forced down close to the floor or door-sill by the closing of the door.

The improvement consists in an improved mode of hinging the movable strip A to the fixed strip B, which is attached to the door.

The strip A has a rounded upper edge, which fits and turns in a rounded cavity in the lower edge of the strip B. I form a metallic pintle, C, in one piece, there being a vertical wing, *a*, thereon, which fits in a cross-notch, *b*, in the back of the lower edge of the upper strip, B, and a countersunk screw-eye, *c*, by which to insert a screw for securing the pintle to the strip. From the lower end of the wing *a* a pivot, *d*, projects at right angles, so as to be parallel and concentric with the axis or hinge-line of the two strips. A notch, *f*, is cut across the rounded part of the strip A, wide enough to insert the pintle with its pivot, and toward the end of the strip from the said notch a pivot-hole is made concentric with the axis of the pintle to receive the pintle-pivot. The pintle, being inserted in the cross-notch *f*, is pushed toward the end of the strip to insert it in its pivot-hole. Then the wing *a* of the pintle is pushed into its notch *b* in the strip B, thereby securing all fixedly in place, to be held there by the screw in the eye-flange *c*. A similar pintle is applied near the other end of the strip in precisely the same way, except that its pivot projects preferably in the opposite direction. Thus the strips A B are hinged together, so that there is no longitudinal play of the movable strip.

The hinge is simple, cheap, strong, durable, and effective.

I employ a coiled spring, D, which forces the lower strip, A, forward. It is formed of a single piece of wire bent near its two ends into several coils to form springs *g g*, while a loop, *h*, formed of the middle of the wire between the spring-coils, extends laterally some distance from the line thereof. The two ends *i i* project a little beyond the coils *g g*. To apply this spring a notch, *k*, is formed in the middle of the upper strip, B, in its rear edge, deep enough to hold the coils of the spring without projecting. The ends *i i* are driven into holes in the wood of the strip at the ends of the notch. A cavity or socket, *l*, is also formed in the upper rear edge of the movable strip A, into which the loop or arm *h* of the spring enters, the form and arrangement of the parts being such that the spring acting in the said cavity forces forward the said strip, as desired. Thus the spring is sunk and nearly concealed in the strips out of the way. It also is simple, cheap, durable, and effective.

I disclaim, in weather-strips, a spring formed from a single piece of wire and arranged between the two strips.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a weather-strip, the combination, with strips A B, having notches *b f*, of the pintles C C, formed as described, and secured in said notches, substantially as and for the purpose herein specified.

CLINTON M. PACKER.

Witnesses:

GEO. LEONARD,

CHARLES ROBINSON.