

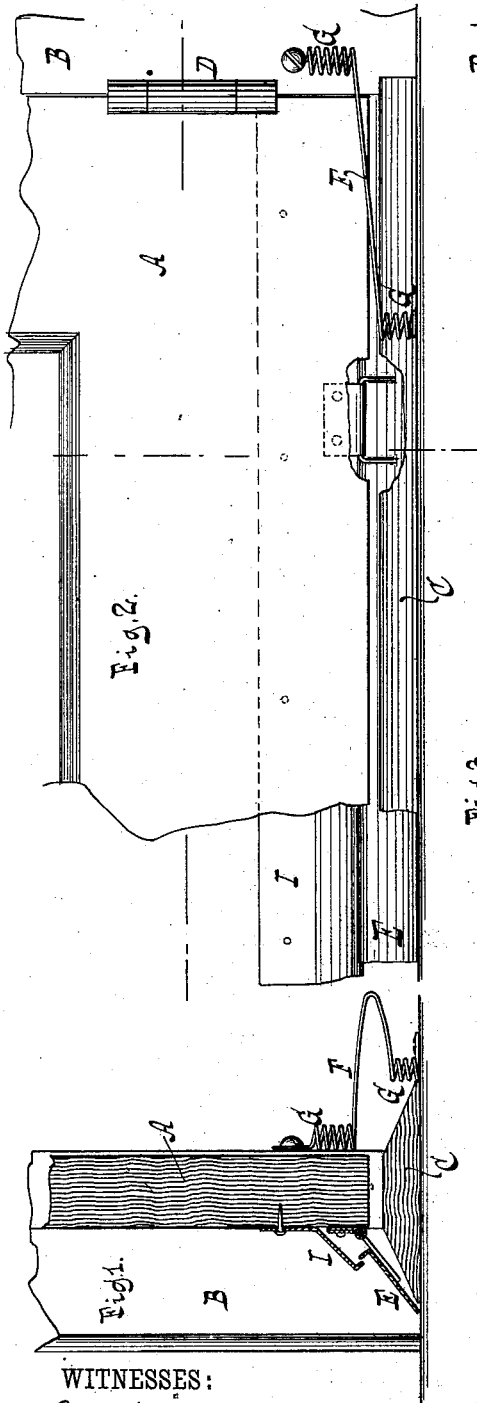
(No Model.)

G. BURKHARDT.

WEATHER STRIP.

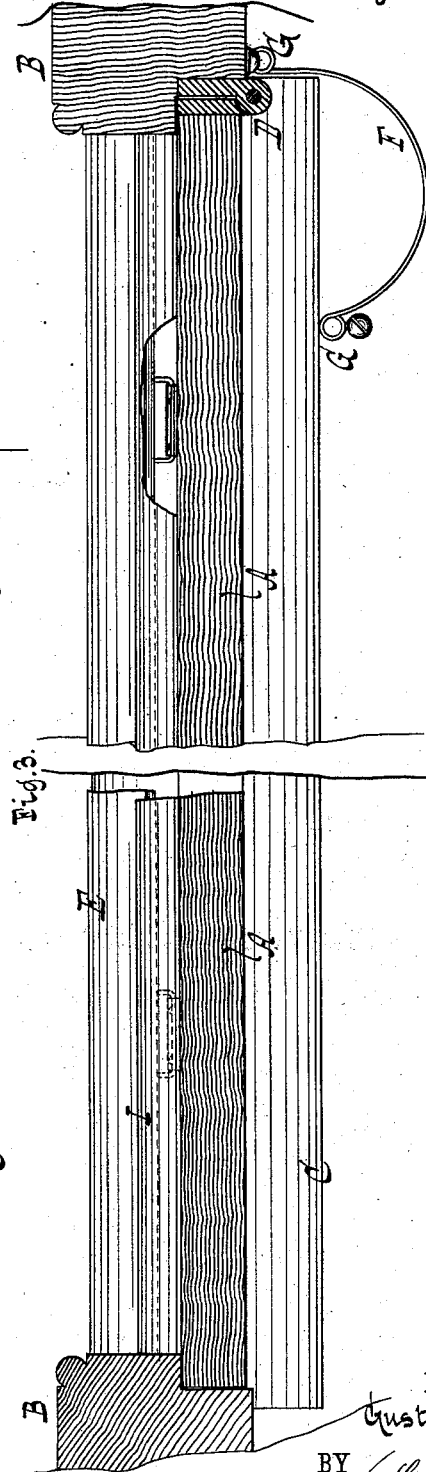
No. 302,095.

Patented July 15, 1884.



WITNESSES:

Otto Hufeland
William Miller



INVENTOR

Gustav Burkhardt

BY

Van Santvoord & Hauff

ATTORNEYS

UNITED STATES PATENT OFFICE.

GUSTAV BURKHARDT, OF HOMER, ASSIGNOR OF ONE-HALF TO CHARLES
HESSE, OF DANVILLE, ILLINOIS.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 302,095, dated July 15, 1884.

Application filed April 24, 1884. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV BURKHARDT, a citizen of the United States, residing at Homer, in the county of Champaign and State of Illinois, have invented new and useful Improvements in Weather Strips, of which the following is a specification.

This invention relates especially to weather-strips for the sills of swinging doors; and it consists in the novel means hereinafter described for automatically adjusting such strips to the positions of the doors.

In the accompanying drawings, Figure 1 is a cross-section of my weather-strip applied to a door. Fig. 2 is a side view thereof. Fig. 3 is a horizontal section of the same.

Similar letters indicate corresponding parts.

The letter A designates a portion of the door, which is hung in a frame, B, above the sill or threshold C by means of hinges D, to swing in an inward direction.

E denotes the weather-strip, which is pivoted to the door at or near the lower edge thereof, to project outwardly, so that when the door is closed this strip rests by gravity on the floor, and thus performs the required function. When the door A is opened, the gravitating weather-strip E is received on a fender, F, and thus kept out of contact with the floor, this fender consisting of a curved wire which is attached to the floor at one end and to the door-frame B at the other end, in the path of the weather-strip, and since this wire also lies in the path of the door, the latter is received thereon, together with the strip, and thereby held by friction in any position to which it may be adjusted.

In order to increase the effect of the wire composing the fender F in holding the door open, it is arranged on an inclined plane, as shown in Figs. 1 and 2, and is constructed with spiral springs G at the opposite ends, tending to increase its elasticity, so that it

readily yields to the door as the latter is swung inward, while its acts thereon with a gradually-increasing pressure.

Above the weather-strip E, on the outside of the door, is attached a shield, I, to overlap the upper edge of the strip and protect the parts whereby it is pivoted to the door.

I do not broadly claim a weather-strip having a hinged connection with the lower edge of a door, combined with a bent rod or an extension of the door-sill, to hold the strip raised horizontally when the door is opened.

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

1. The combination, substantially as hereinbefore described, with a door, of the weather-strip pivoted to the door at or near the lower edge thereof, to rest on the floor by gravity when the door is closed, and the spring-acting fender adapted to receive the strip when the door is opened for keeping it out of contact with the floor, and to yieldingly press against the lower edge of the door to retain the latter in an open position.

2. The combination, substantially as hereinbefore described, with a door, of the inclined spring-acting wire arranged to receive the door when it is opened, and to yieldingly press against the lower edge of the door for holding it in position by friction.

3. The combination, substantially as hereinbefore described, with a door, of the inclined wire arranged to receive the door when it is opened, and constructed with spiral springs at the opposite ends to increase its elasticity.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

GUSTAV BURKHARDT. [L. S.]

Witnesses:

E. R. E. KIMBROUGH,
GEO. E. COCKERTON.