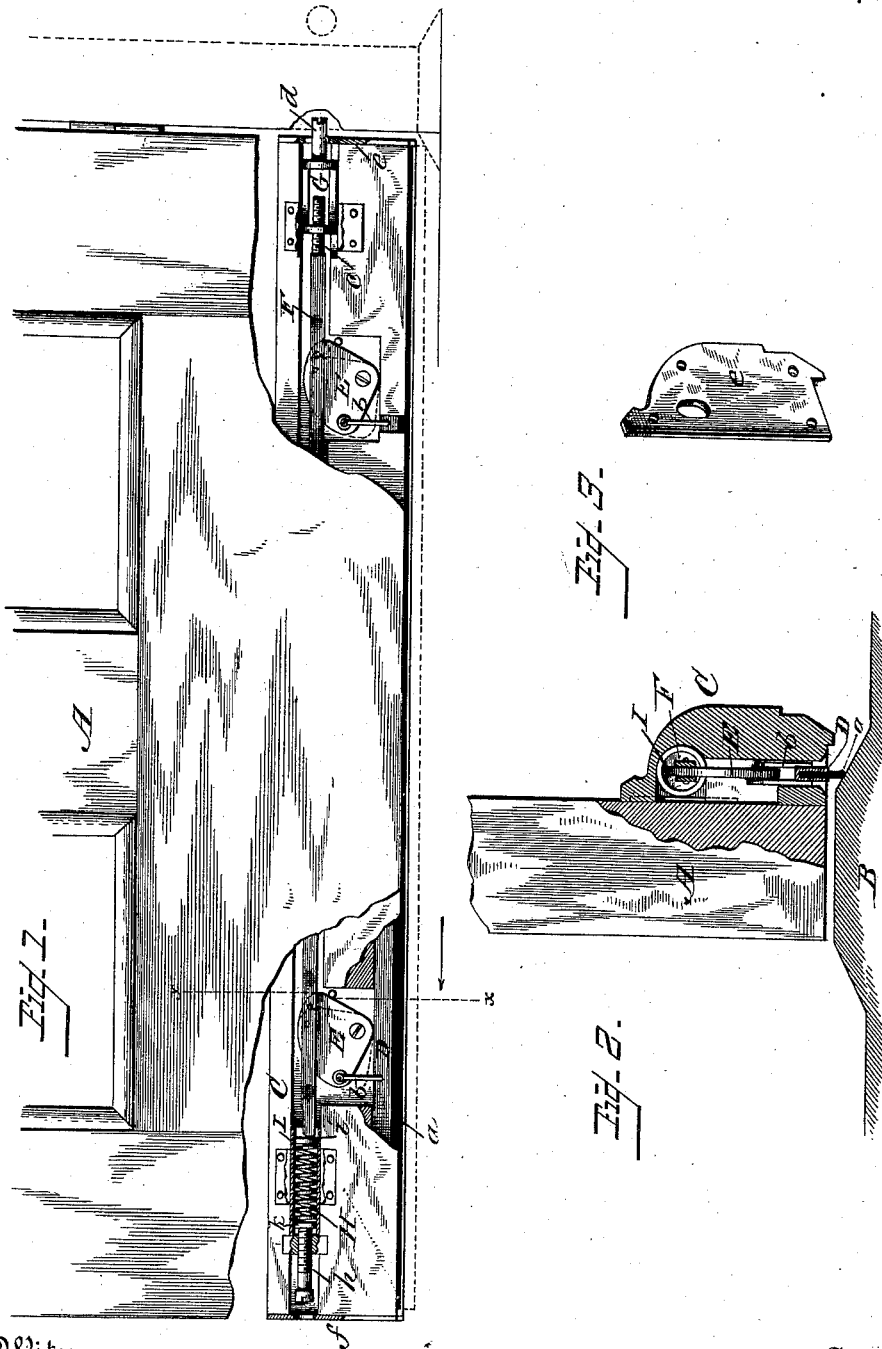


(No Model.)

J. S. DUFFEE.
WEATHER STRIP.

No. 344,773.

Patented June 29, 1886.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN S. DUFFEE, OF RICHMOND, INDIANA.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 344,773, dated June 29, 1886.

Application filed April 19, 1886. Serial No. 199,444. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. DUFFEE, a citizen of the United States, residing at Richmond, in the county of Wayne and State of Indiana, have invented certain new and useful Improvements in Weather-Strips; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a front elevation of my invention, partly in section; Fig. 2, a cross-section taken on line *xx* of Fig. 1, and Fig. 3 a detail perspective view of one of the plates connected to the end of the bracket to which the operating parts of the weather-strip are connected.

The present invention has for its object to provide a simple and easily-operating weather-strip that will effectually and accurately close the space between the shut door and the threshold; and it consists in the details of construction, substantially as shown in the drawings and hereinafter described and claimed.

In the accompanying drawings, A represents the door, and B the threshold, the door having connected to its lower edge a bracket, C, extending the entire width thereof. Within the bracket C is supported a metal plate, D, of a length equal to that of the bracket, and having secured thereto a rubber or felt strip, *a*, to form a tight and closed joint between it and the threshold.

The plate D is connected to eccentrics E by means of links *b*, said eccentrics being pivoted to the bracket C, and also to a plunger-bar, F. The distance of stroke of the bar F is regulated by an adjusting or gage device, G, which engages with a screw-threaded shank, *c*, on the end of the bar. The gage G terminates at its outer end in a short rod, *d*, which passes through an opening in a plate, *e*, secured to the inner end of the bracket C, a similar plate, *f*, being attached to the opposite end thereof.

By means of the gage G the distance which

the rod *d* projects beyond the end of the bracket is regulated, and consequently when the rod is brought in contact with the frame of the door the throw of the bar F and also the eccentrics E is acted upon with greater or less force to bring the rubber strip in contact with the threshold.

When the door is opened, the strip *a* is raised flush with the lower edge of the bracket C by means of a spiral spring, H, inclosed in a casing, I, open at both ends. The tension of the spring H is regulated by an adjusting-screw, *h*, having a disk, *k*, on its inner end, which bears on the end of the spring to compress the coils to any degree required. The opposite end of the spring H is provided with a bearing-disk, *i*, for the end of the bar F to come in contact with, and both the rod *d* and screw *h* have slotted heads for engaging there- with a screw-driver for turning them.

The spring H, as will be understood, forces the bar F back to its normal position when pressure is removed from the rod *d*, and through its connection with the rubber strip *a* the latter is elevated.

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

The plunger-bar F, having a screw-threaded shank, *c*, an adjusting or gage device, G, engaging therewith, and terminating in a rod, *d*, for turning it, in combination with the spring H, contained within the casing I, and adjusting screw *h*, for regulating the tension of the spring, the plate D, having the strip *a* and connected to the plunger-bar by links *b*, and pivoted eccentrics E, arranged to operate substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN S. DUFFEE.

Witnesses:

OLIVER E. MITCHELL,
CHARLES C. BINKLEY.