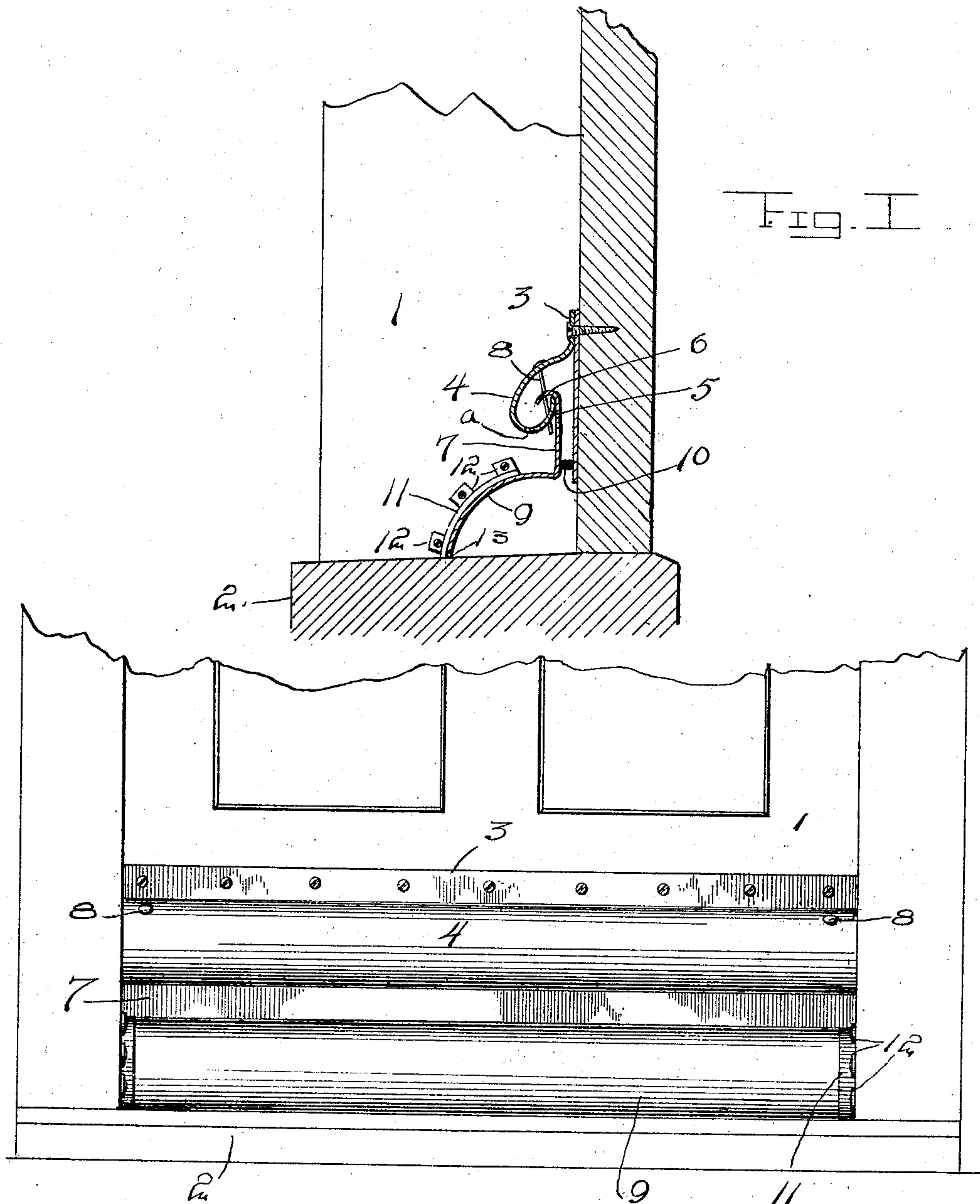


No. 842,502.

PATENTED JAN. 29, 1907.

W. U. G. SHAW.
WEATHER STRIP.

APPLICATION FILED NOV. 6, 1905.



Witnesses
J. C. Simpson
H. C. Jones

Fig. 2

Inventor
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By

Signature

Attorney S

UNITED STATES PATENT OFFICE.

WILLIAM U. G. SHAW, OF BATTLE GROUND, INDIANA.

WEATHER-STRIP.

No. 842,502.

Specification of Letters Patent.

Patented Jan. 29, 1907.

Application filed November 6, 1905. Serial No. 286,029.

To all whom it may concern:

Be it known that I, WILLIAM U. G. SHAW, a citizen of the United States, residing at Battle Ground, in the county of Tippecanoe, State of Indiana, have invented certain new and useful Improvements in Weather-Strips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to weather-strips.

One object is to provide an exceedingly simple, inexpensive, durable, and efficient weather-strip particularly adapted for connection with the bottom of a door.

Another object resides in the provision of a weather-strip so constructed and arranged and secured to a door that one member may have a hinged movement with respect to another member, whereby snow, dirt, or water finding its way between the elements may be readily drained therefrom, thereby preventing corrosion between the parts.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claim, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claim without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a transverse sectional view through the device, and Fig. 2 is a front elevation of the invention applied to a door.

Referring now more particularly to the accompanying drawings, the reference character 1 designates a door-frame whose bottom is provided with a sill 2. These elements may be of any form and construction, and obviously I do not make claim to the same. However, my invention comprises an elongated plate 3, which may be secured in any suitable manner to the outer face of the door immediately above the lower edge of the latter. This plate 3 has an outwardly-turned portion 4, which is turned inwardly at its free edge, as at 5, to form a longitudinal edge or support for the outwardly-turned portion 6 of the sill-piece 7, whereby the sill-

piece may be hingedly connected with respect to the plate 3.

In order to prevent longitudinal separation of the sill-piece with respect to the plate 3, I provide end strips 8, as clearly shown in the drawings. The bight portion between the outwardly and inwardly turned portions 4 and 5 of the plate 1 is provided with a series of perforations *a*, designed to drain the water, snow, or dirt therefrom in the event that the same should find its way therein.

The longitudinal portion of the sill-piece 7 intermediate the turned or hinged portion 6 and the lower outwardly-curved longitudinal portion 9 lies in a plane parallel with the plane of the outer face of the door 1 and is held normally out of engagement with the latter through the instrumentality of a helical or other spring 10. This spring 10 serves to force the sill-piece outwardly, so that when the door is closed the outwardly-curved longitudinal portion 9 of the sill-piece will bind tightly against the inner face of the curved guard 11, secured to the side of the jamb opposite to the hinged side of the door, and thereby effect a tight sealing between the sill-piece and the sill 2 of the door-frame. This guard-piece 11 is provided with ears 12, through which may be passed suitable fasteners whereby the guard-piece may be removably disposed with respect to the door-frame.

While not absolutely necessary, I might secure to the lower longitudinal edge of the outwardly-curved lower edge of the sill-piece 9 a strip of rubber, felt, or other suitable material 13, as clearly shown in the drawings. At any rate, whether or not this rubber, felt, or similar material 13 be employed, I claim that in the use of my invention cold air, water, dirt, and snow will be prevented from finding its way between the bottom of the door and the sill 2.

What is claimed is—

The combination with a door and a frame including a sill, of a strip of elastic material secured to the door, a plate secured at its upper edge to the upper edge of the said strip and provided with an outwardly and downwardly turned portion, the lower edge of which is bent inwardly and upwardly, a sill-piece having its upper edge bent whereby it may be supported upon the inwardly and upwardly turned portion of said plate and

having its lower edge portion curved outwardly and downwardly, a helical spring interposed between the elastic strip and the body portion of the sill-piece directly above
5 the upper end of the downwardly and outwardly turned portion, and a curved guard secured to each side of the door-frame for co-operation with the said outwardly-curved

lower edge of the sill-piece, substantially as described. 10

In testimony whereof I affix my signature in presence of two witnesses.

WM. U. G. SHAW.

Witnesses:

EDWARD E. JOYCE,
JAMES M. MCNEELEY.