

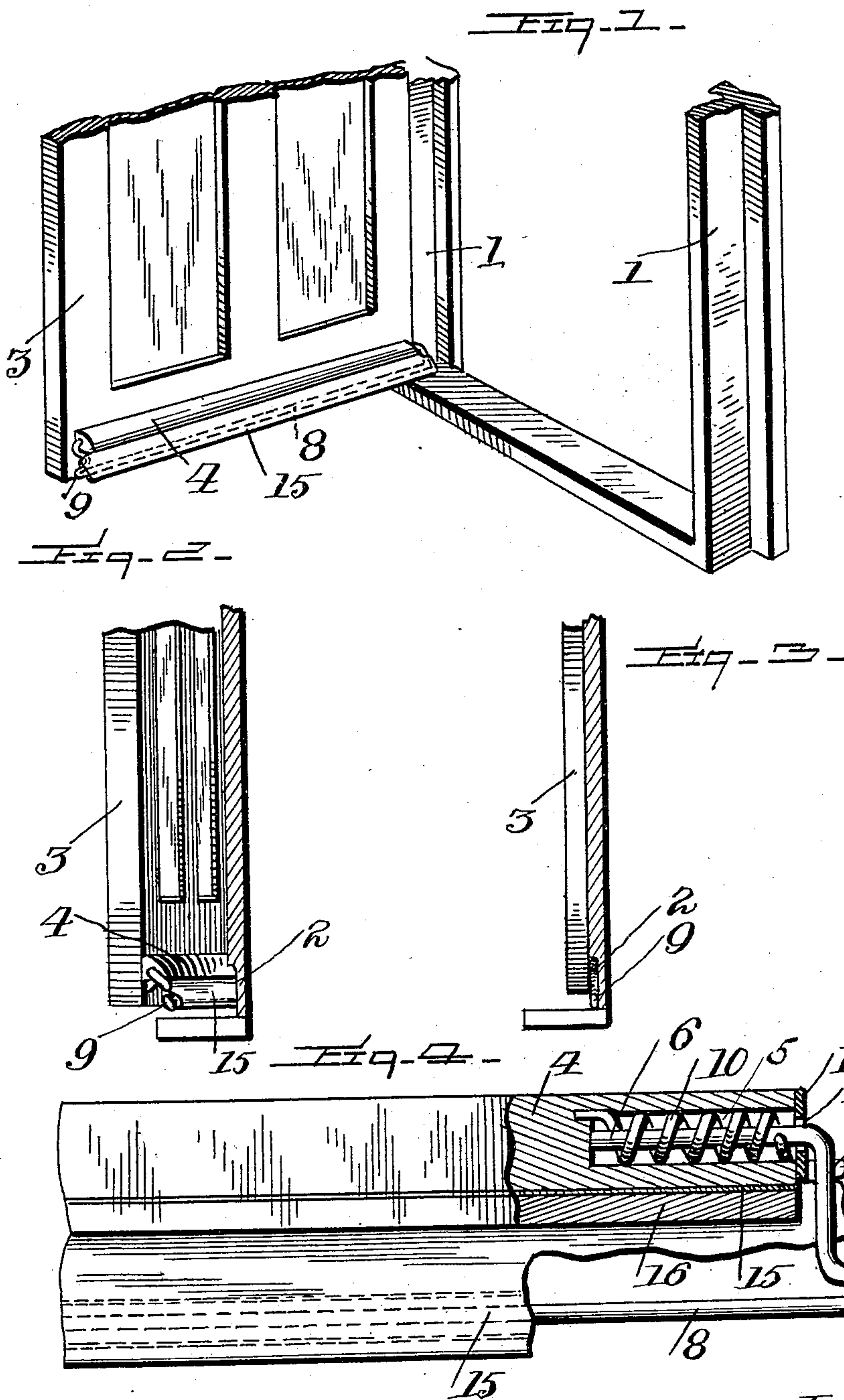
No. 694,135.

Patented Feb. 25, 1902.

F. M. CANNON.
WEATHER STRIP.

(Application filed Dec. 24, 1901.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

FRANCIS M. CANNON, OF MCKEESPORT, PENNSYLVANIA.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 694,135, dated February 25, 1902.

Application filed December 24, 1901. Serial No. 87,076. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS M. CANNON, a citizen of the United States of America, residing at McKeesport, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Weather-Strips, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in weather-strips, and relates more particularly to that class employed for doors and the like.

15 The invention has for its object the provision of novel means whereby a weather-strip will be automatically operated—i. e., raised and lowered as the door is opened and closed; furthermore, to provide novel means that will effectually guard the door from rain, 20 snow, or draft.

My invention further aims to construct a weather-strip that will be extremely simple, strong, durable, and comparatively inexpensive to manufacture.

25 With the above and other objects in view the invention consists in the novel combination and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claim.

30 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in 35 which—

Figure 1 is a perspective view of the lower portion of a door, the frame having my improved weather-strip attached thereto. Fig. 2 is a vertical sectional view of the door-frame, showing the door in perspective. Fig. 40 3 is a similar view showing door closed. Fig. 4 is an enlarged front elevation of my improved weather-strip partly in section and the covering partly broken away.

45 In the drawings the reference-numeral 1 represents the door-frame, having a recess 2 formed therein, and the reference-numeral 3 represents the door. To the lower portion of said door is secured a semicircular strip 4. 50 In the ends of said strip are formed openings 5, in which are secured the ends 6 of the wire 7, forming the loop 8 and the shoulder 9 on one end, the end 6 of the wire being encircled by the coil-springs 10, secured in the recess 5.

The reference-numerals 11 represent end 55 plates having openings 12 formed therein, through which the end of the wire passes. Said end plates 11 carry stops 14 to limit the movement of the wire loop 8. The said wire loops 8 extends the entire width of the door 60 and is provided with an oil-cloth covering 16, said covering being secured between the reinforcing-strip 16, attached to the under side of the semicircular strip 4.

The operation of my improved device is as 65 follows: The spring or springs 10 normally retain the wire loop carrying the oil-cloth in an elevated position, bearing same against the stops 14 and allowing the door to be easily opened or closed. As the door is closing the 70 shoulder 9 will ride into the opening 2 of the frame of the door bearing against the same, which will tend to lower the loop carrying the oil-cloth covering, and forming a perfectly air-tight connection between the lower 75 portion of the door and the door-frame. As soon as the door is opened and the shoulder 9 disengaged the spring or springs will automatically raise the wire carrying the covering, permitting the door to be easily opened. 80

The many advantages obtained by the use of my improved device will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may 85 be made in the details of construction without departing from the general spirit of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters 90 Patent, is—

In a weather-strip the combination of a securing-strip, a reinforcing-strip attached to said securing-strip, a wire forming a loop, the end of which extends into said securing- 95 strip, a spring encircling one of the ends arranged in said securing-strip, a covering arranged over said wire loop and between the said securing and reinforcing strips, and end plates carrying stops secured to the ends of 100 said securing-strips, substantially as described.

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

FRANCIS M. CANNON.

Witnesses:

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