Nov. 10, 1925. 1,561,195

A. SZYMKOWIAK

WEATHER STOP

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Fig. 1

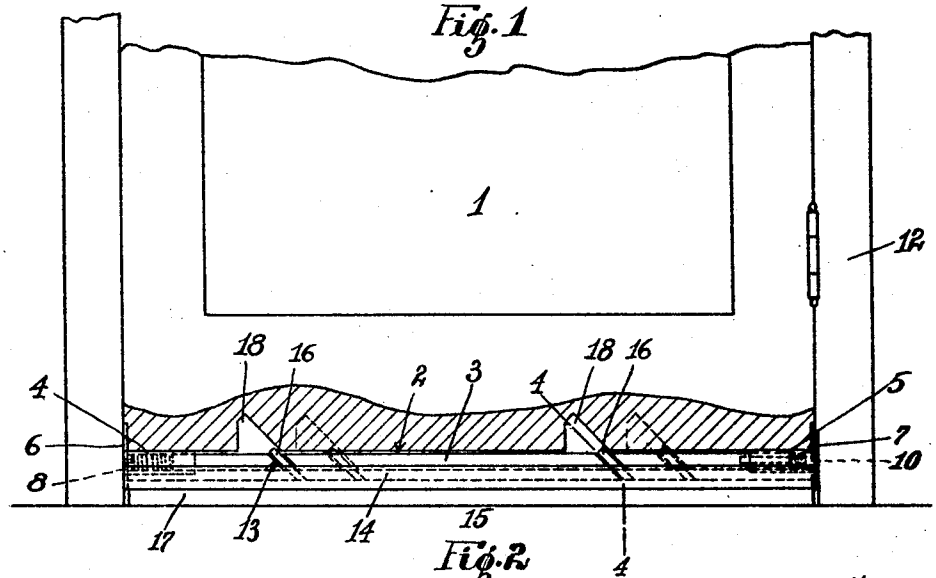


Fig. 2

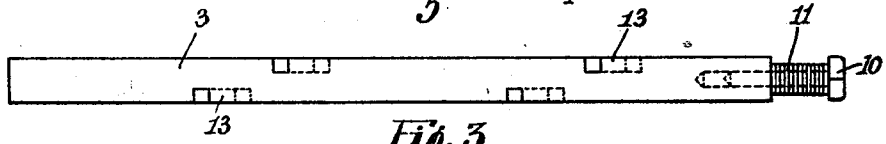


Fig. 3

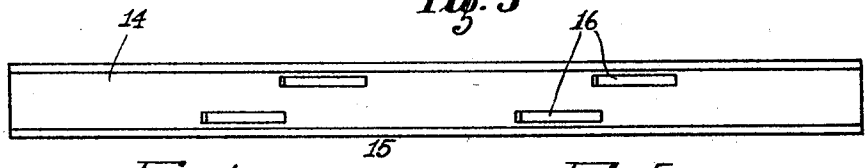


Fig. 4

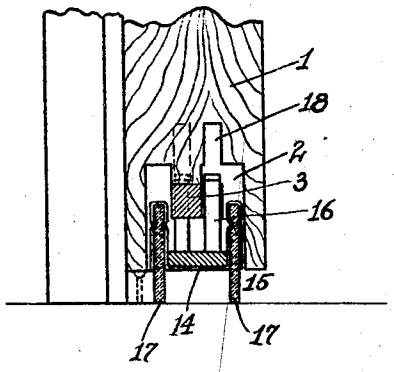
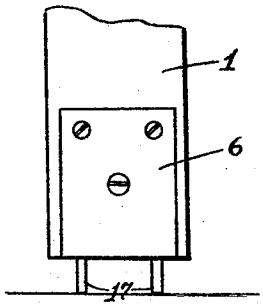


Fig. 5



INVENTOR
ANTON SZYMKOWIAK
BY
Harry Schroeder
ATTORNEY

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A. SZYMKOWIAK

WEATHER STOP

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Fig. 6

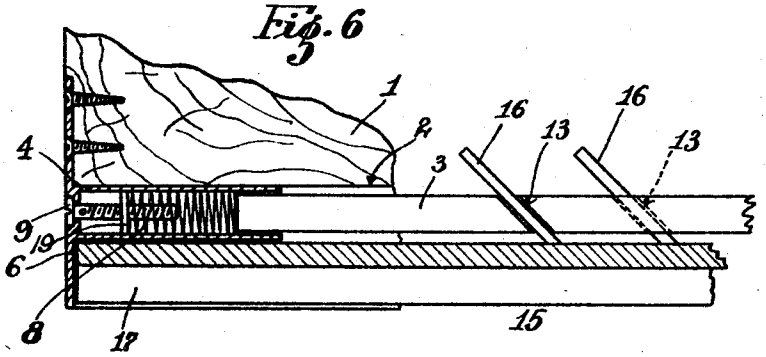


Fig. 7

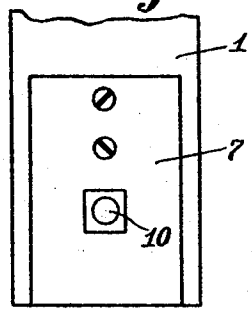
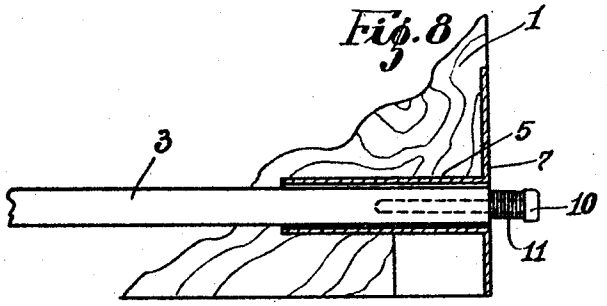


Fig. 8



INVENTOR
ANTON SZYMKOWIAK

BY
Harry D. Schroeder
ATTORNEY

Patented Nov. 10, 1925. 1,561,195

UNITED STATES PATENT OFFICE.

ANTON SZYMKOWIAK, OF SAN FRANCISCO, CALIFORNIA.

WEATHER STOP.

Application filed December 7, 1922. Serial No. 605,467.

To all whom it may concern:

Be it known that I, ANTON SZYMKOWIAK, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Weather Stops, of which the following is a specification.

My invention is an improved weather stop for doors.

The proper closing of the space under a door has always presented a problem. Any material which protrudes below the door will obstruct its swing and crease the carpet. A weather stop on the sill makes an obstruction over which a person may stumble.

The object of my invention is to provide a weather stop which will effectually close the aperture under the door when the door is closed, and which will raise out of the way when the door is opened.

Another object of my invention is to provide a weather stop which is simple in construction and efficient in operation.

In the drawing in which my invention is illustrated and which forms a part of this specification,

Figure 1 is a fragmentary front view of a door partially in section to illustrate my invention.

Figure 2 is a top plan view of the actuator bar.

Figure 3 is a top plan view of the weather stop.

Figure 4 is a sectional view taken on the line 4—4 of Figure 1.

Figure 5 is a fragmentary end view of the swinging edge of the door.

Figure 6 is a fragmentary sectional view of the invention.

Figure 7 is a fragmentary end view of the hinged edge of the door.

Figure 8 is a fragmentary sectional view of the actuator bar and guide.

Referring more particularly to the drawings, the numeral 1 indicates a door in the lower edge of which is formed a channel 2. Reciprocally mounted in the channel 2 is an actuator bar 3 which is journaled in tubes 4 and 5. The tubes 4 and 5 have plates 6 and 7 respectively formed on the outer ends thereof whereby they are secured to the edges of the door. A spring 8 is positioned within the tube 4 between the end of the bar 3 and a nut 19 on an adjusting screw 9. A bolt having a head 10 is threaded into the end of the bar 3 and projects beyond the tube 5. The amount which the bolt projects beyond the tube may be regulated by adjustment washers 11 spaced between the head of the bolt and the bar 3. When the door 1 is closed the bolt 10 comes in contact with the door frame 12, which causes the bolt and bar 3 to move longitudinally against the tension of the spring 8. When the door is opened the spring 8 moves the bar 3 and bolt 10 in the opposite direction. The object of this movement will be described later.

A plurality of inclined slots 13 are formed in the front and rear faces of the bar 3. The bar 3 and tubes 4 and 5 lie within the U-shaped frame 14 of a weather stop 15. A plurality of inclined cam arms 16 are formed on the frame 14 and are adapted to fit in the slots 13. A pair of depending strips 17 are secured to the frame 14 and are formed of a pliable material. Inclined apertures 18 are formed in the bottom of the door 1 to receive the arms 16 in the raised position of the strip 15. The strips 17 engage the floor in the lowered position of the strip 15 to prevent passage of air, dirt or rain thereunder.

The operation of my invention is as follows: Looking at Figure 1, the bolt 10 strikes the frame 12 and moves the bar 3 to the left. This movement allows the arms 16 to lower which drops the weather stop 15 in contact with the floor. When the door is opened the spring 8 moves the bar 3 to the right which causes the slots 13 to carry the arms 16 upwardly and raise the stop 15.

Having described my invention, I claim:

1. In combination with a door and a door frame, tubes mounted on said door, a bar mounted in said tubes, a spring positioned against one end of said bar, a bolt projecting from one end of said bar and adapted to engage said frame whereby said bar is reciprocated, a weather stop mounted below said bar, a plurality of inclined cam arms formed on said stop, said bar having a plurality of inclined slots therein for the reception of said cam arms whereby said weather stop is raised and lowered.

2. In combination with a door and a door

frame, said door having V-shaped slots adjacent the lower edge thereof, tubes mounted in said door, a bar mounted in said tubes, a spring positioned against one end of said bar, a bolt projecting from one end of said bar and adapted to engage said frame whereby said bar is reciprocated, said bar being provided with diagonal apertures, a weather strip, pins carried by said weather strip extending through the apertures in said bar and into the notches in said door whereby said strip is raised and lowered.

In testimony whereof I affix my signature.

ANTON SZYMKOWIAK.