

(No Model.)

J. T. WATTS.
WEATHER STRIP.

No. 605,590.

Patented June 14, 1898.

Fig. 1.

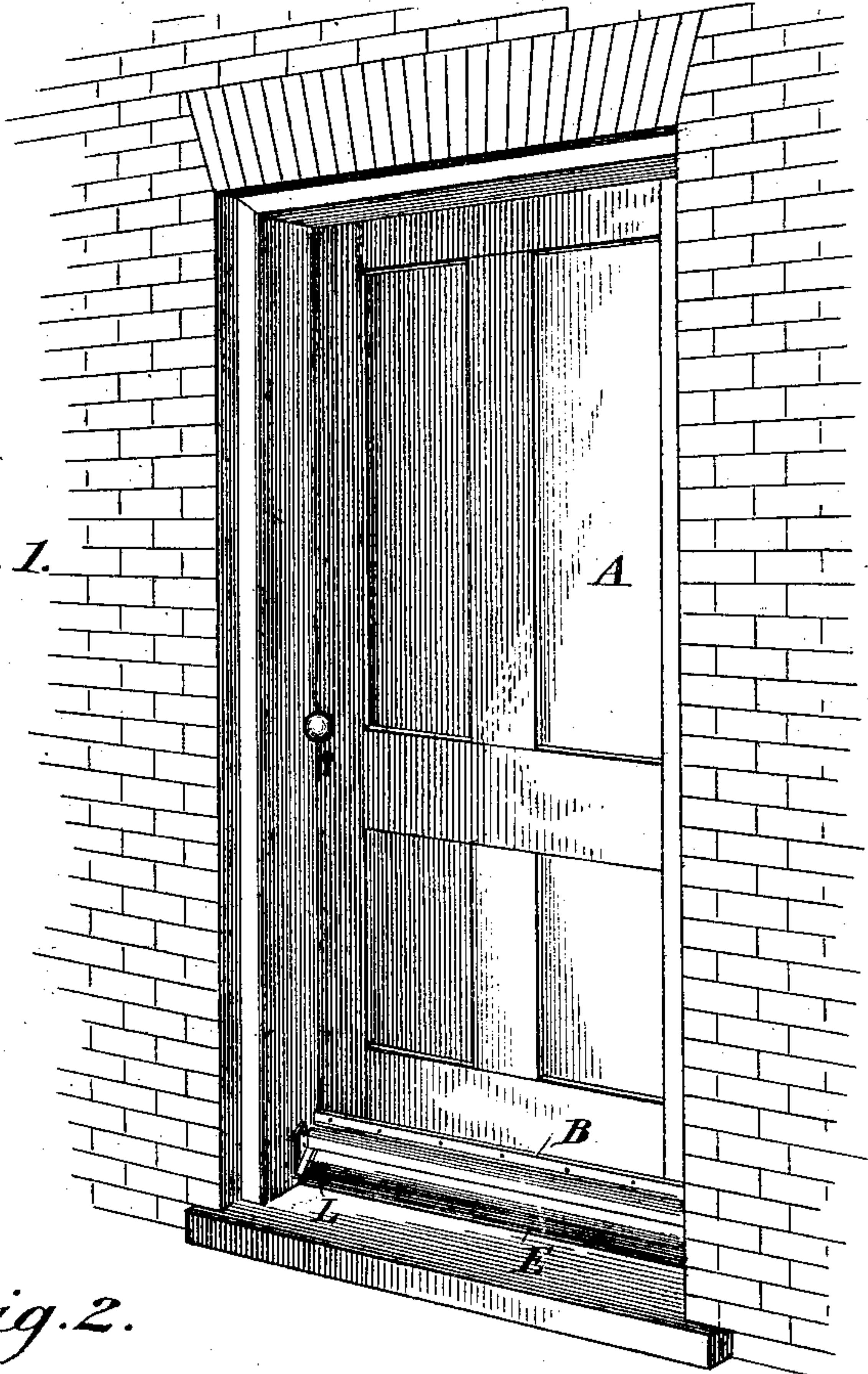


Fig. 2.

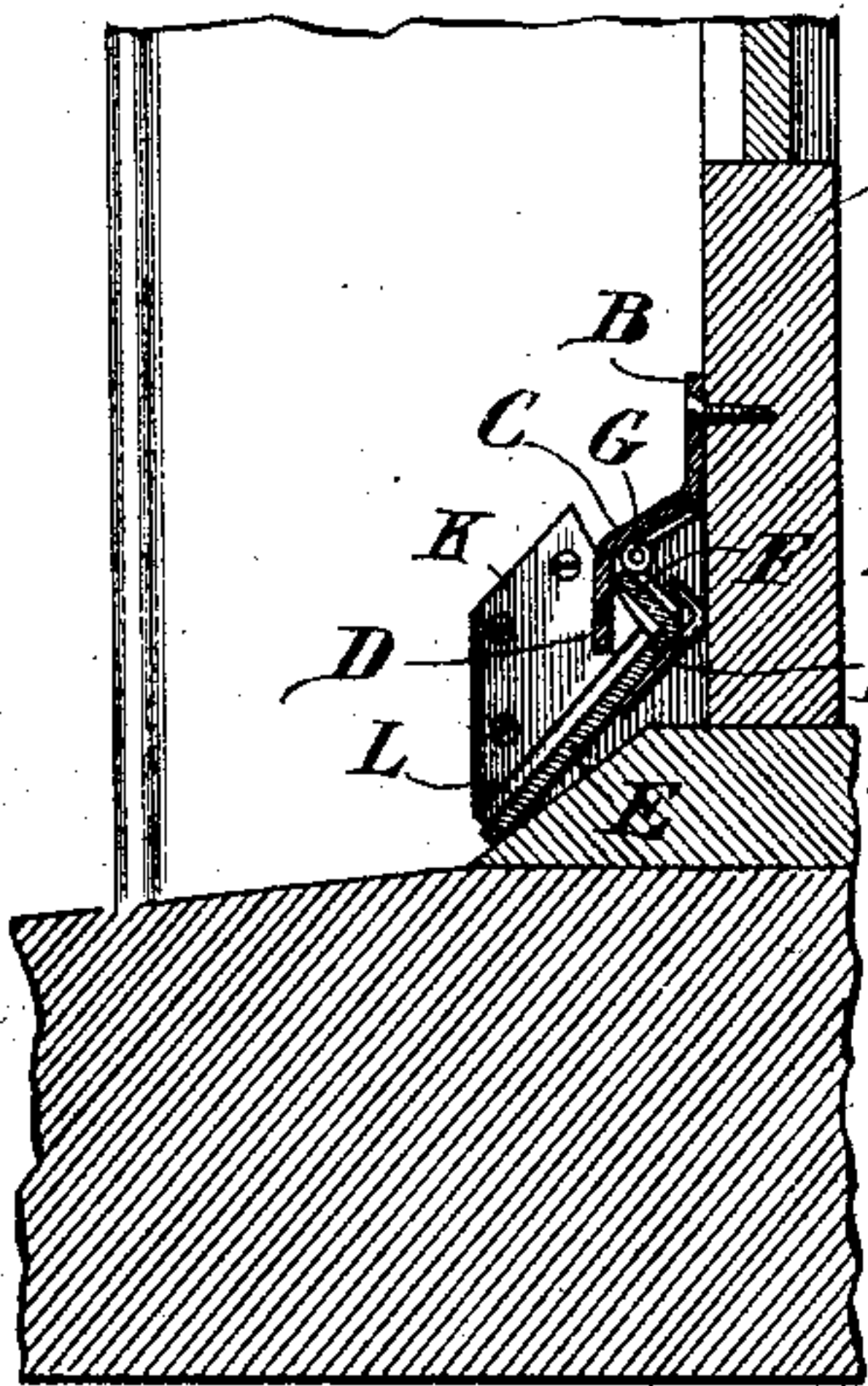


Fig. 3.

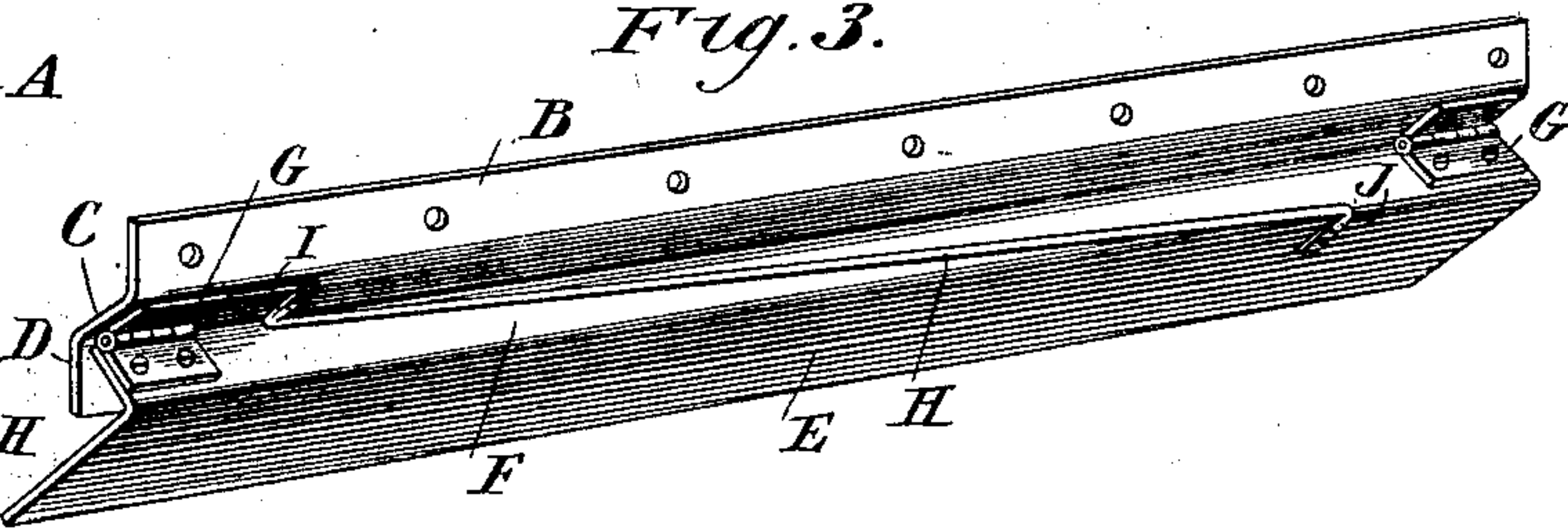
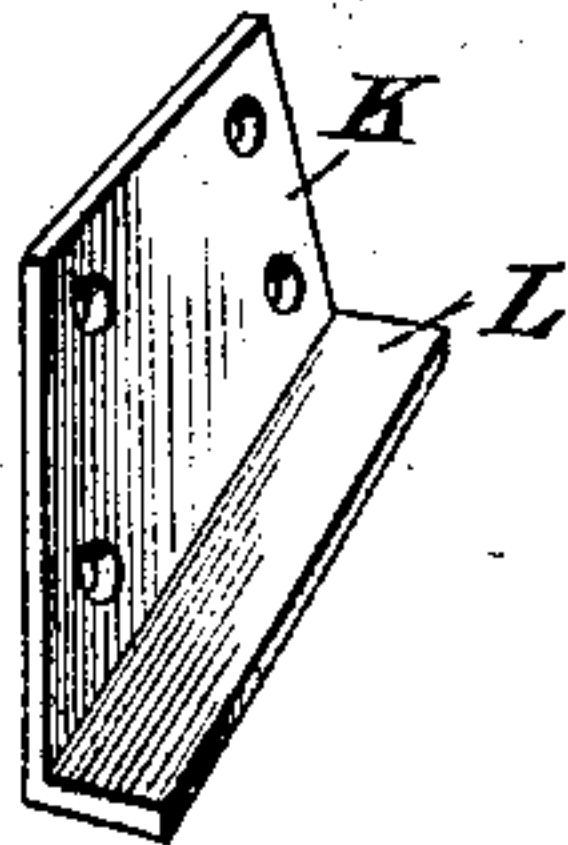


Fig. 4.



Witnesses,

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UNITED STATES PATENT OFFICE.

JOHN T. WATTS, OF GOLDEN, ILLINOIS.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 605,590, dated June 14, 1898.

Application filed June 18, 1897. Serial No. 641,348. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. WATTS, residing at Golden, in the county of Adams and State of Illinois, have invented a new and useful Weather-Strip, of which the following is a specification.

This invention has relation to certain improvements in weather-strips.

An object of the invention is to provide a weather-strip to be carried by a door, so that when the door is closed there will be no possibility of water, wind, &c., entering the room through the space between the lower edges of the door and sill.

A further object of the invention is to provide a weather-strip for doors whereby when the door is closed the strip will be held in a locked position until the same is again opened.

A further object of the invention is to provide a weather-strip simple in construction and composed of a minimum number of strong and inexpensive parts.

With these and other objects in view the invention consists in certain novel features of construction and in combinations and arrangements of parts, as will be more fully described hereinafter and specifically pointed out in the claim.

Referring to the accompanying drawings, illustrating my invention, Figure 1 is a perspective view showing my invention in operative position. Fig. 2 is a detail sectional view. Fig. 3 is a rear perspective view of the strip, and Fig. 4 is a detail view of the strip-securing device.

Like letters of reference will indicate similar parts wherever they occur in the different views.

In the practical embodiment of my invention I have shown a door A having secured to the lower portion thereof, on the outside, a strip B of any suitable material and preferably of such length as to extend the width of the door. This strip is bent forward, as shown at C, and then downwardly, as at D, to provide for the open space on the under side of the strip B.

E represents a plate formed of a single piece of material, the same being bent, as shown, to allow the upwardly-extending part F thereof to be secured by suitable hinges G to the un-

der side of the strip B, while the bottom part thereof extends outwardly to bear against the door-sill when the door is closed, this plate being always held in the desired position to the lower edge of the strip B by means of a spring H, having its ends bent at an angle thereto and extending in the reverse direction, one end I thereof being secured in any suitable manner to the rear side of the strip B, while the opposite end thereof is attached to the plate E, as shown at J. By connecting the parts above described the plate E will be permitted to slightly yield up or down as the door is opened or closed.

Secured near the lower part of one of the door-frames, at a point above the sill, is a catch or securing device, the same comprising a plate having an upwardly-extending side wall K for attachment to the door-frame, while the lower end is bent over, as shown at L, to form a catch or guide for the plate E.

The operation of the device will be apparent from the foregoing description and may be briefly stated as follows: As the door is being closed one end of the plate E will strike the upper edge of the bent portion L of the guide, thereby forcing said plate beneath the guide (the spring H permitting of the same being lowered) and locking the said plate between the sill and the under side of the catch or guide in order to lower the plate to its limit of downward movement to the sill. As the door is opened the plate will be released from the guide and will assume its normal position, as clearly shown in Fig. 3.

From the foregoing description it will be seen that I have produced an exceedingly cheap and simple construction of weather-strip, automatic in action, and one that can be attached to or removed from a door in an easy manner.

While I have described my device as being particularly adapted for use in connection with doors, it will of course be understood that I do not care to limit myself to such particular use, as the construction might be advantageously used in other places.

Various slight changes might be made in the forms, constructions, and arrangements of the parts described without departing from the spirit and scope of my invention. Hence I do not care to limit myself to the exact con-

struction herein set forth, but clearly consider myself entitled to all such slight changes that may fall within the range of my invention.

Having thus fully described my invention, 5 what I claim as new, and desire to secure by Letters Patent of the United States, is—

In a weather-strip, the combination with a stationary section, having a securing-face by means of which it is attached to the door, an 10 intermediate portion inclined outwardly and downwardly from the securing portion, a downwardly-extending stop member, a movable section having its inner end bent at an angle to form an attaching portion, hinges se- 15 cured to the outer surface of the attaching portion, and to the under side of the intermediate portion of the stationary section, whereby said sections are hinged together, said attaching portion adapted to abut against

the stop member when the door is open, a 20 spring-rod having its end bent at an angle and extending in reverse directions, one of said angular ends being secured to the under side of the intermediate portion of the stationary section adjacent one end of the weather-strip, 25 and the opposite angular end secured to the under side of the movable section adjacent the opposite end of the strip, of an angular stop-plate secured to the door-frame and adapted to be engaged by the movable sec- 30 tion of the weather-strip, whereby said section is held in engagement with the door-sill when the door is closed, substantially as described.

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Witnesses:

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