

(No Model.)

S. C. GOOCH.
WEATHER STRIP.

No. 375,619.

Patented Dec. 27, 1887.

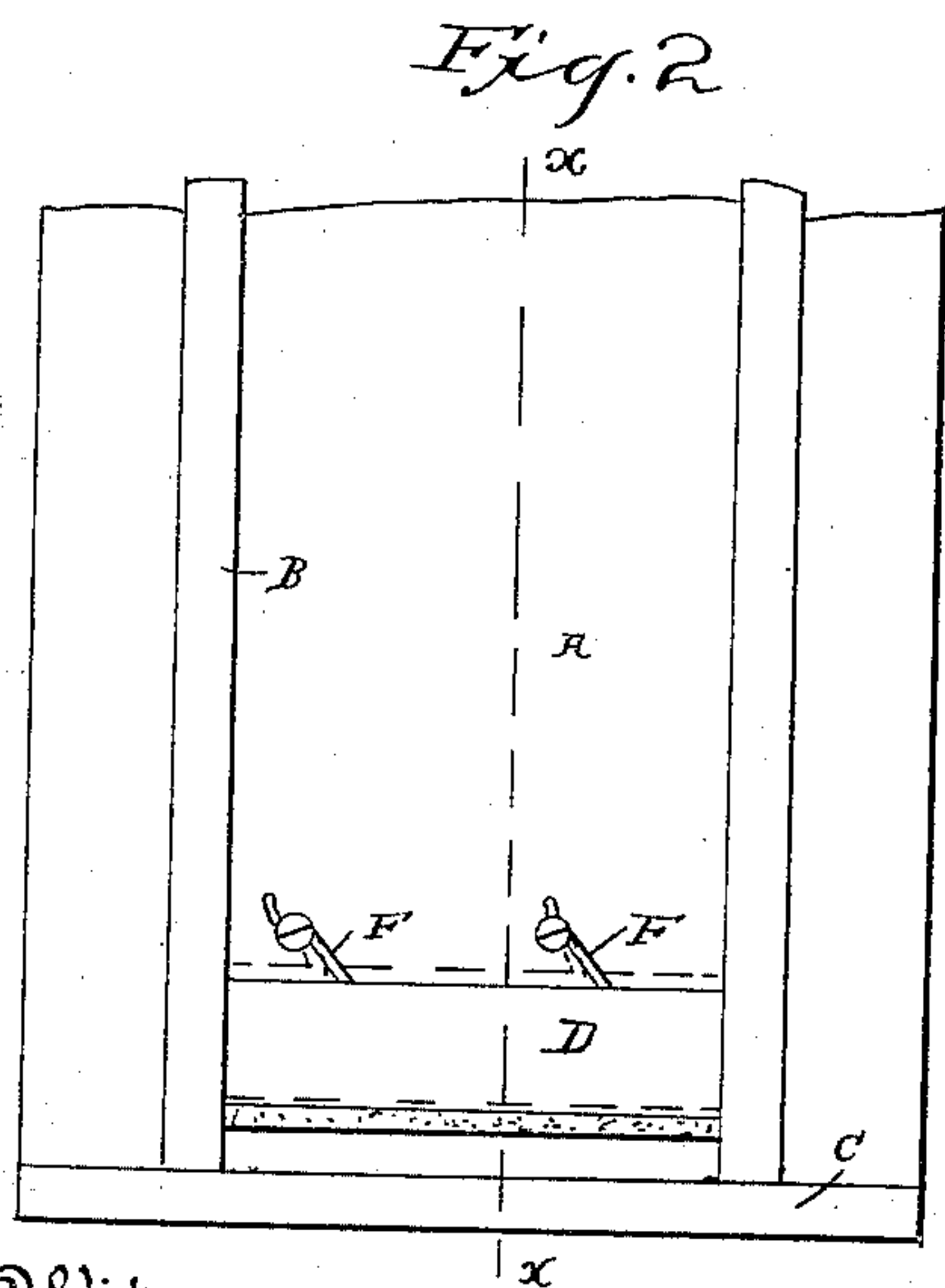
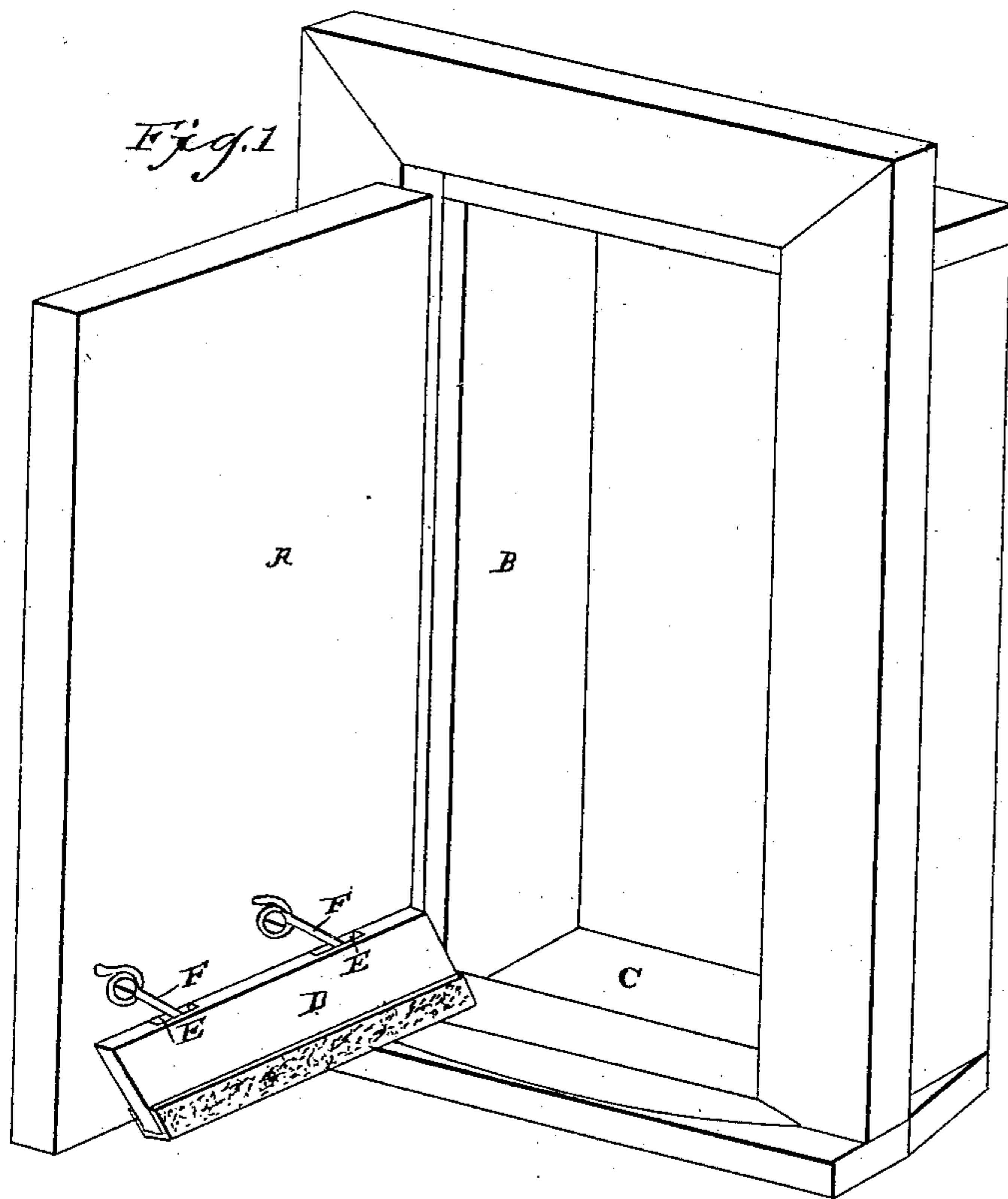


Fig. 3.

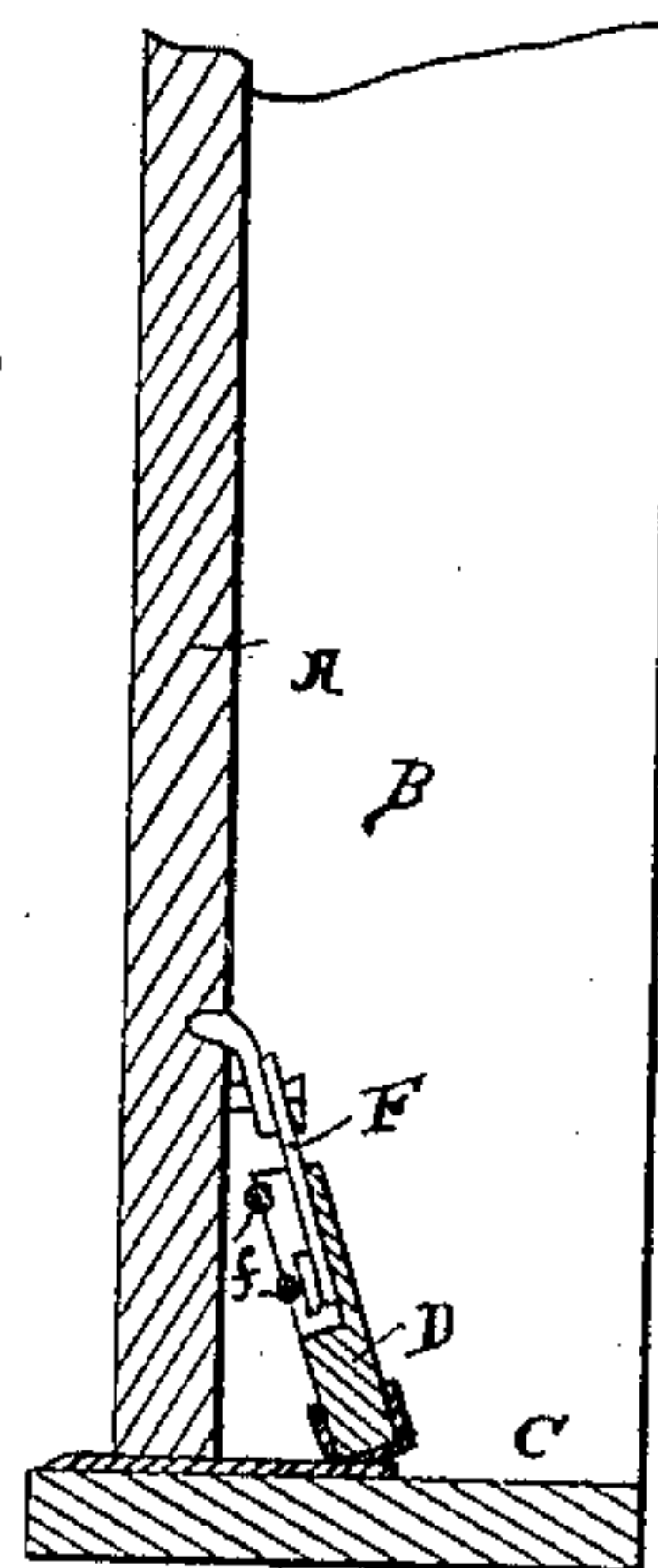
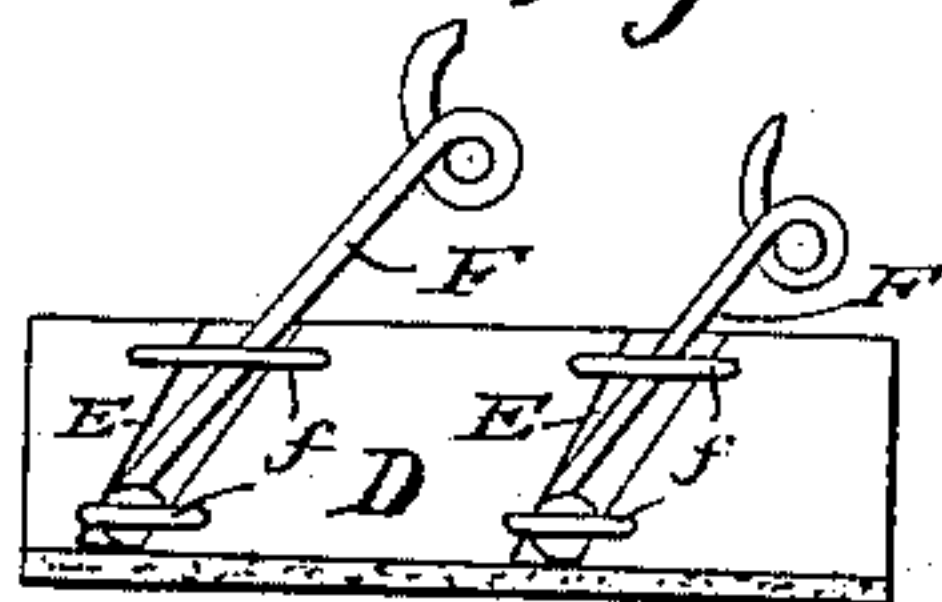


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

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WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 375,619, dated December 27, 1887.

Application filed March 25, 1887. Serial No. 232,417. (No model.)

To all whom it may concern:

Be it known that I, SHELBY COLUMBUS GOOCH, a citizen of the United States, residing at Adairville, in the county of Logan and State of Kentucky, have invented a new and useful Improvement in Weather-Strips, of which the following is a specification.

The invention is an improved weather-strip to prevent the cold air from entering below a door when the latter is closed, the strip being moved down automatically by the closing of the door till its edge impinges upon the floor or the carpet thereon in the interior of the room.

The invention can also be applied to swinging window-sashes, or to the sides of sliding sashes; and it consists in the construction and novel arrangement of the spring attachments, and combination with the strip and other parts, as hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a door having the device attached. Fig. 2 is a view of the outer sides of the device with the spring attached thereto. Fig. 3 is a section on the line *x x* of Fig. 2. Fig. 4 is a rear elevation of the weather-strip detached.

Referring to the drawings by letter, A designates a door hinged to the frame B in the ordinary manner, the floor on the interior of the door being indicated by C.

D is a strip of board or other suitable material, which is in practice about three inches wide and one-half inch thick. The length of the strip D is equal to the distance between the jambs, and on its outer side it is provided with two or more inclined shallow recesses, E, running from its upper edge to near its lower edge, which recesses increase in width upward.

F F are spring-rods, having their lower ends secured by suitable means within the lower parts of the corresponding recesses, and their upper ends secured to the inner surface of the door a sufficient distance above the upper edge of the strip D. The strips are confined in the recesses at the upper parts of the latter by the cross-rods *f f*, and the recesses are sufficiently wide to allow the spring a proper amount of play within them.

The strip and springs are so arranged in relation to each other and to the door that the lower edge of the strip will, when the door is

being opened, be held above the lower edge of the latter, so as not to drag or scrape on the floor, and the inner end of the strip will be in position to strike against and be thrust lengthwise by the jamb adjacent to the hinges in the act of closing, so that its lower edge, when the door is entirely closed, will be thrust firmly down on the floor on the interior of the door or the carpet thereon. The dotted lines in Fig. 2 indicate the movement. The lower edge of the strip is preferably covered with felt, rubber, or other compressible material to effect a more perfect exclusion of cold air.

The strip may be attached to the upper rail of the upper sash of a window and to the lower rail of the lower sash by allowing the edges of the strips to extend beyond the edges of said rails. The action of the springs will then be reversed.

The invention is simple, cheap, can be quickly and easily attached, and will effectually exclude the cold air.

Having thus described my invention, I claim—

1. The combination, with a hinged door and the jamb to which it is attached, of the weather-strip and the inclined springs having their lower ends connected to the weather-strip and their upper ends connected to the door, whereby the strip is raised and moved lengthwise when the door is opened, with its lower edge above that of the door, and when the door is being closed the jamb adjacent to the hinges will force the strip lengthwise against the action of the springs and extend its lower edge below that of the door, substantially as specified.

2. The combination, with the door A and frame B, of the weather-strip D, having a length equal to the distance between the jambs, and provided with the inclined shallow recesses E on its outer surface, and the inclined springs F, having their lower ends secured in said recesses and their upper ends to the door, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

SHELBY COLUMBUS GOOCH.

Witnesses:

W. K. RAYBURN,
P. B. MASON.