

G. P. BENNETT.
Weather-Strip.

No. 167,820.

Patented Sept. 21, 1875.

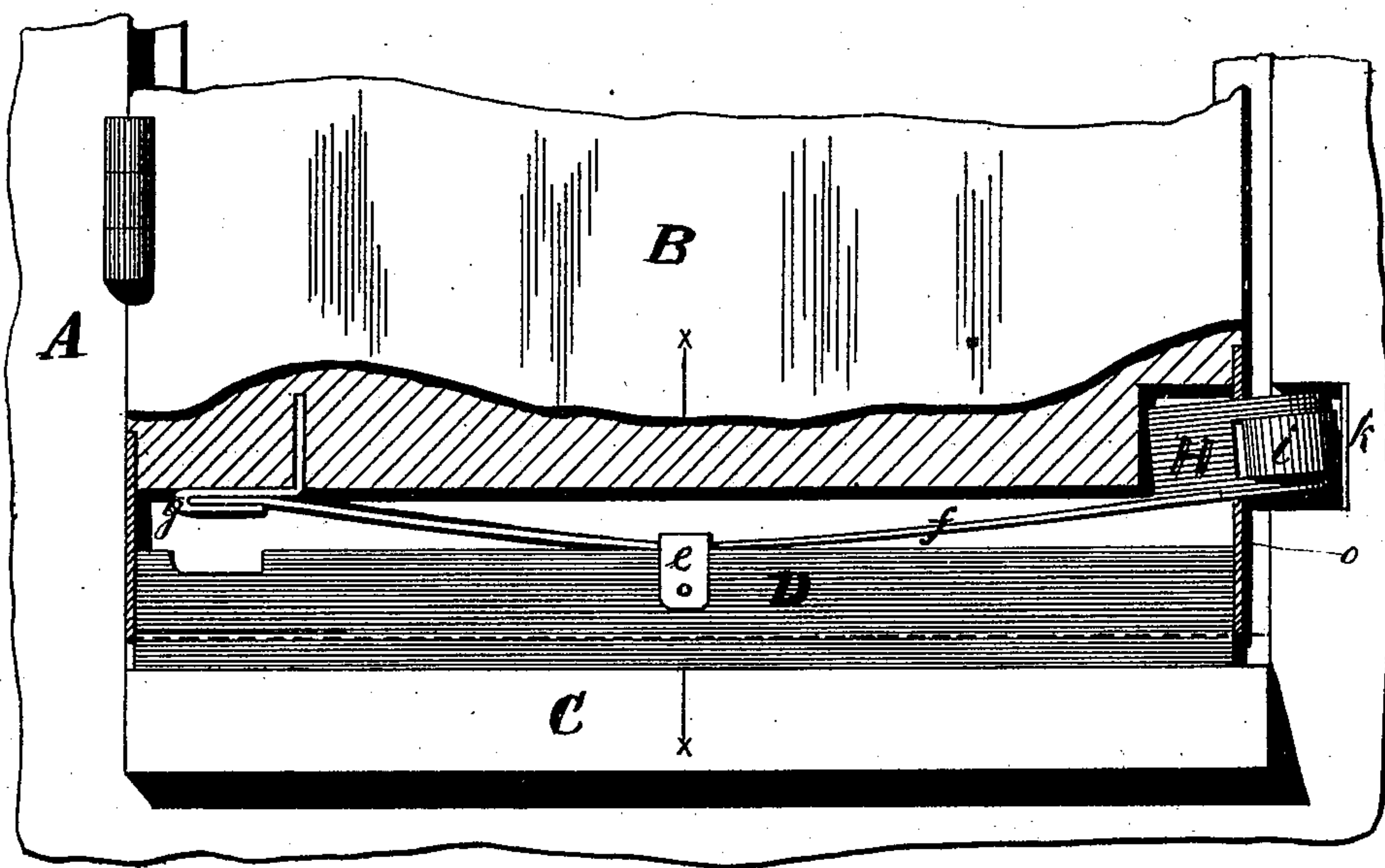


FIG. 1.

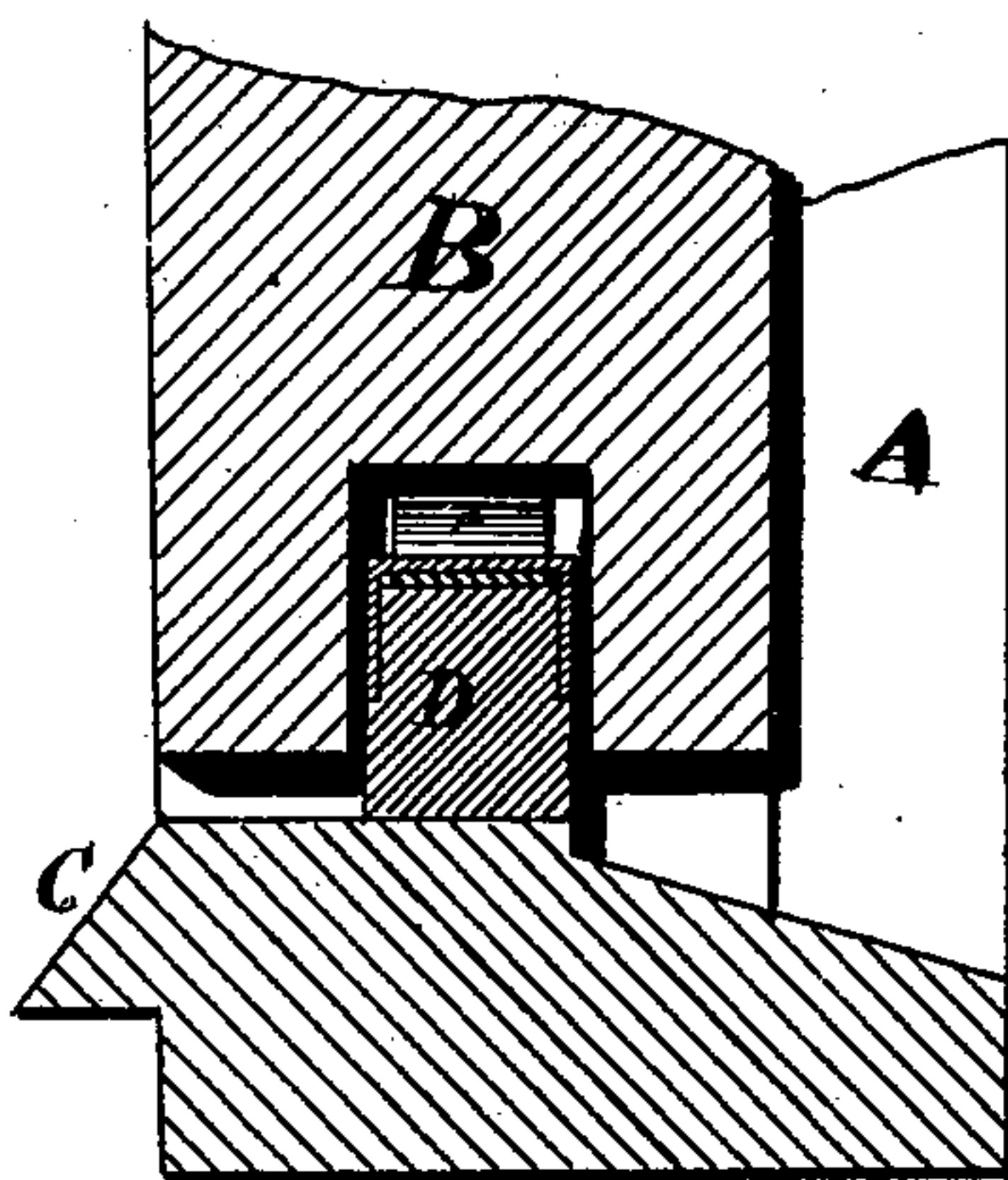


FIG. 2.

WITNESSES.

A. W. Gibson
James C. Richardson

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George P. Bennett

UNITED STATES PATENT OFFICE.

GEORGE P. BENNETT, OF COVENTRY, RHODE ISLAND.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **167,820**, dated September 21, 1875; application filed February 17, 1875.

To all whom it may concern:

Be it known that I, GEORGE P. BENNETT, of Coventry, in the county of Kent, in State of Rhode Island, have invented a new and valuable Improvement in Weather-Strips for Doors of Dwelling-Houses, &c.; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures marked thereon for reference.

Figure 1 of the drawings is a representation of the weather-strip as applied to the door, a section of which having been cut away so as to show its operation. Fig. 2 is an end view, with the side of the frame taken away, showing the door when closed and the strip in operation.

A represents the door-frame; B, the door; C, the threshold. D is the wood portion of the strip, which is operated upon by the spring *f*, being attached thereto with a staple or clamp, *e*. The spring *f* is fastened to the door with a bracket, *g*, or can be done with simply a staple driven one tang through the spring and the other into the door, forming a joint, a hole having been made for the purpose; but I prefer the present mode. H is a supporting bracket, fastened to the end of the spring on the upper side, the farther end from the hinge of the door, for the purpose of supporting the friction-roll *i*, which operates against the cam-piece inserted into the frame of the door, as seen at *k*.

Now, in order to apply this strip to the door, it is only necessary to remove it from the hinges, and with a suitable plane, to correspond with the thickness of the tongue of the strip D, and plane a groove say one and one-half inch deep. Then have a straight, flat, or other shape spring, of steel or any other material, of the proper length, with the

roll bracket at one end. Put this through the staple *e*, which has been previously fastened to the tongue-piece, and fasten the other end on the bottom of the groove, as shown. Then put on the guard-piece *o* at the roll end, through which is a suitable hole to allow of the free action of the spring and bracket. Place the tongue, which may be made of wood or any suitable material, against the guard *o*, and cut the other end of suitable length to work free inside of the guards or caps, which should be made of metal, the use of which will be to cover the ends of the groove, and also to keep the sides of the same from spreading. Then plane the edge of the tongue to fit the threshold, when it will be ready to operate.

It will be readily seen that whenever any pressure is exerted upon or against the roll, it being placed upon the upper side of the spring, the tendency is to bow or curve it downward, and thus force the tongue from the groove, and when the door is closed cause it to come in contact with the threshold, closing whatever space there may be between the door and the same, preventing the possibility of dust or water being blown under the door, the whole combination presenting a strip of great simplicity, durability, and efficiency.

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

The combination of the door B, strip D, spring *f*, having the bracket H, roller *i*, and cam-plate *k* fastened to the door-frame, all constructed substantially as and for the purpose described.

In testimony that I claim the above I have hereunto set my hand in the presence of witnesses.

GEORGE P. BENNETT.

Witnesses:

A. C. GIBSON,

JAMES C. RICHARDSON.