

(No Model.)

E. V. HEAFORD.

WEATHER STRIP.

No. 316,264.

Patented Apr. 21, 1885.

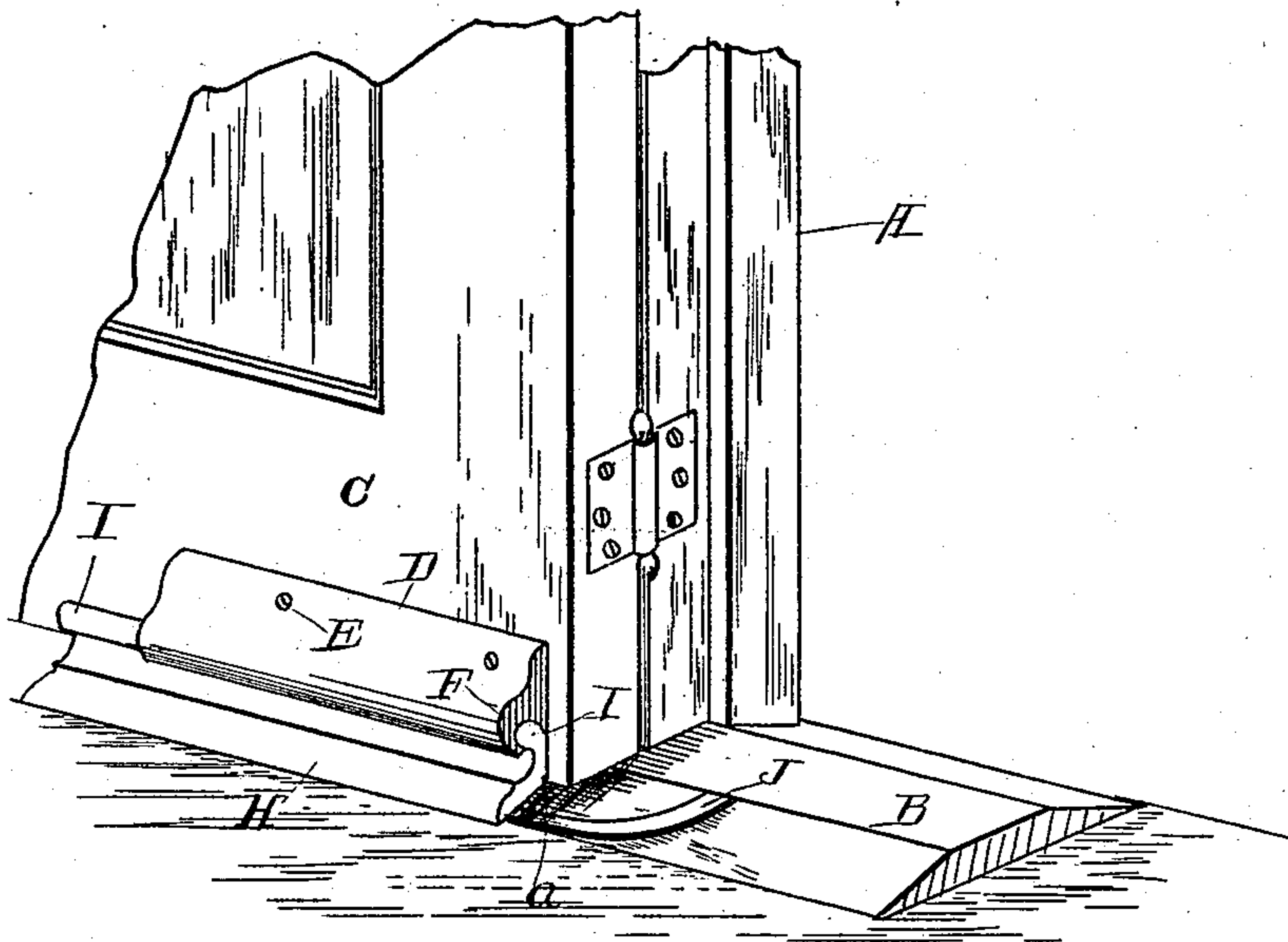


Fig. 1.

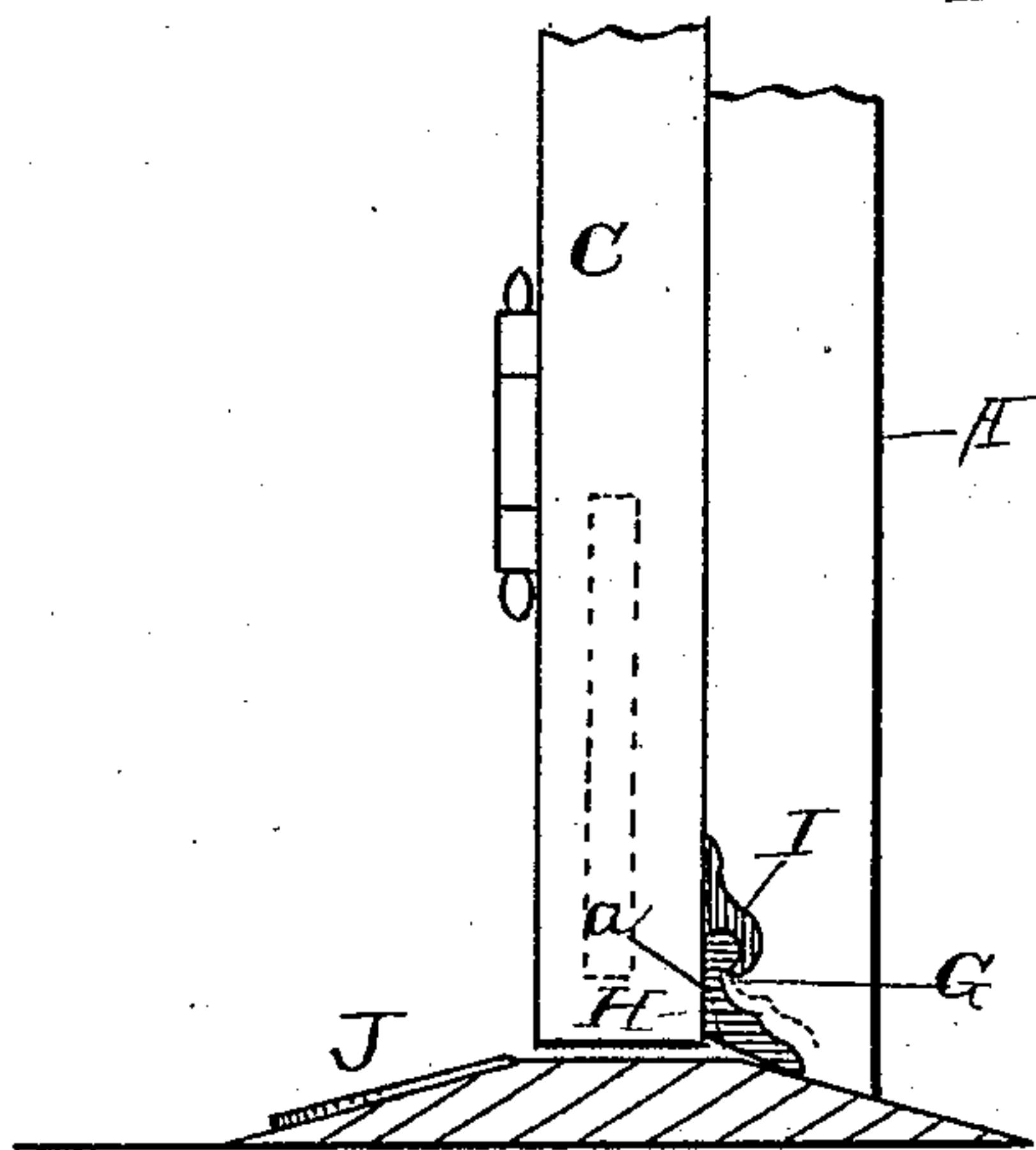
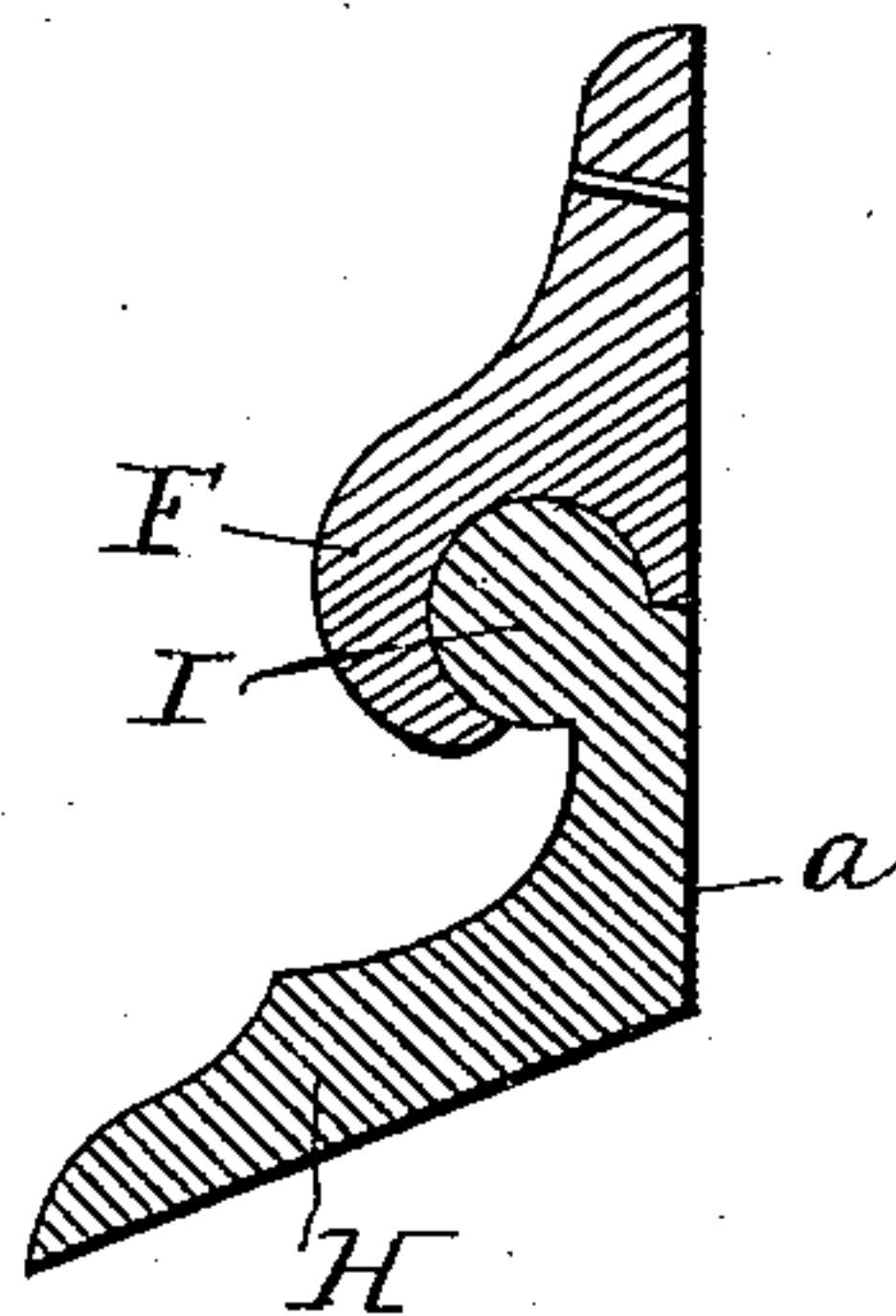


Fig. 2.

Fig. 3.



WITNESSES:

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By

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UNITED STATES PATENT OFFICE.

EDWIN V. HEAFORD, OF CINCINNATI, OHIO.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 316,264, dated April 21, 1885.

Application filed October 31, 1884. (No model.)

To all whom it may concern:

Be it known that I, EDWIN V. HEAFORD, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Weather-Strips, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a perspective view of a section of a door and doorway with my improved weather-strip, and Fig. 2 a side view in section of the same. Fig. 3 is an enlarged cross-section through the two strips united.

My invention relates to weather-strips for doors; and it consists in a weather-strip which is composed of two pieces of molding, which are jointed together in such manner that not only are the parts held together when not applied to a door, but the article complete is put on the market for sale by the foot in any desired lengths.

In the accompanying drawings, A is a section of a door-frame, B the door-sill, and C the door, constructed in any ordinary manner. Upon the outer face of the door, and at its lower part, I provide a piece of molding, D, preferably formed of wood and secured in position by means of screws E. On the lower face of this molding I provide a hollow longitudinal groove, F, with the outer lower part, G, of the molding curved inwardly somewhat, as shown in the drawings. The groove F should be formed in the bottom of the molding D, and it should also be greater than one-half of a circle, for a purpose which will hereinafter appear. Within this circular groove F, I provide a piece of molding, H, having at its upper part a longitudinal bead, I, so arranged as to rest loosely therein. The bead I is greater than a semicircle, so that the strip H can only be applied to or detached from the molding D by an endwise movement. The bottom and back sides of the strip H form an obtuse angle, and the side *a* lies snugly against the door when shut, as shown in Fig. 2, thus effectually preventing rain from beating into the room or into the joint of the said strip with the molding D.

When the door is open and swung back the outer and lower part of the wing H is turned down and rests upon the floor. A piece of wire, J, is secured at the upper and inner part

of the threshold, and is curved around inwardly in such a manner that when the door is being closed one end of the wing H may rest thereon, and thus raise it sufficiently to swing clear of the carpet and one edge of the threshold. When the door is closed, the wing H of the strip laps outwardly and downwardly over the outer part of the threshold, and thus effectually prevents the rain from beating inwardly beneath the door. I design to have the hollow groove F of the molding D formed in such manner that when the molding or wing H is placed therein and secured in position against the door the bead I cannot be removed therefrom without removing the upper molding, D, from the door.

I am aware that it is not new to connect a weather-strip to a strip fixed rigidly to the door by means of a flexible strip. I am also aware that a weather-strip has been invented before me consisting of a sheet-metal plate fixed to the door, and having a half-round bend on one edge, forming a slip-bearing for a corresponding curved portion formed on the weather-strip proper, and therefore I disclaim such devices.

I am furthermore aware that it is not new to construct a weather-strip of two parts, jointed together by a male and female bead, held together by means of one or more springs. My improved weather-strip is composed of only two pieces, so shaped and jointed together that they are not detachable except by moving one on the other in an endwise direction. I am thus able to furnish the strips on sale complete to be cut into the required lengths.

What I claim is—

A weather-strip consisting of a molding, D, having a groove in its lower edge greater than a half-circle, in combination with the hinged strip H, forming an obtuse angle, and provided with a bead, I, greater than a half-circle, and an inclined curved support, J, all constructed and adapted to operate substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of October, 1884, in the presence of witnesses.

EDWIN V. HEAFORD.

Witnesses:

J. S. ZERBE,

R. M. Cox, Jr.