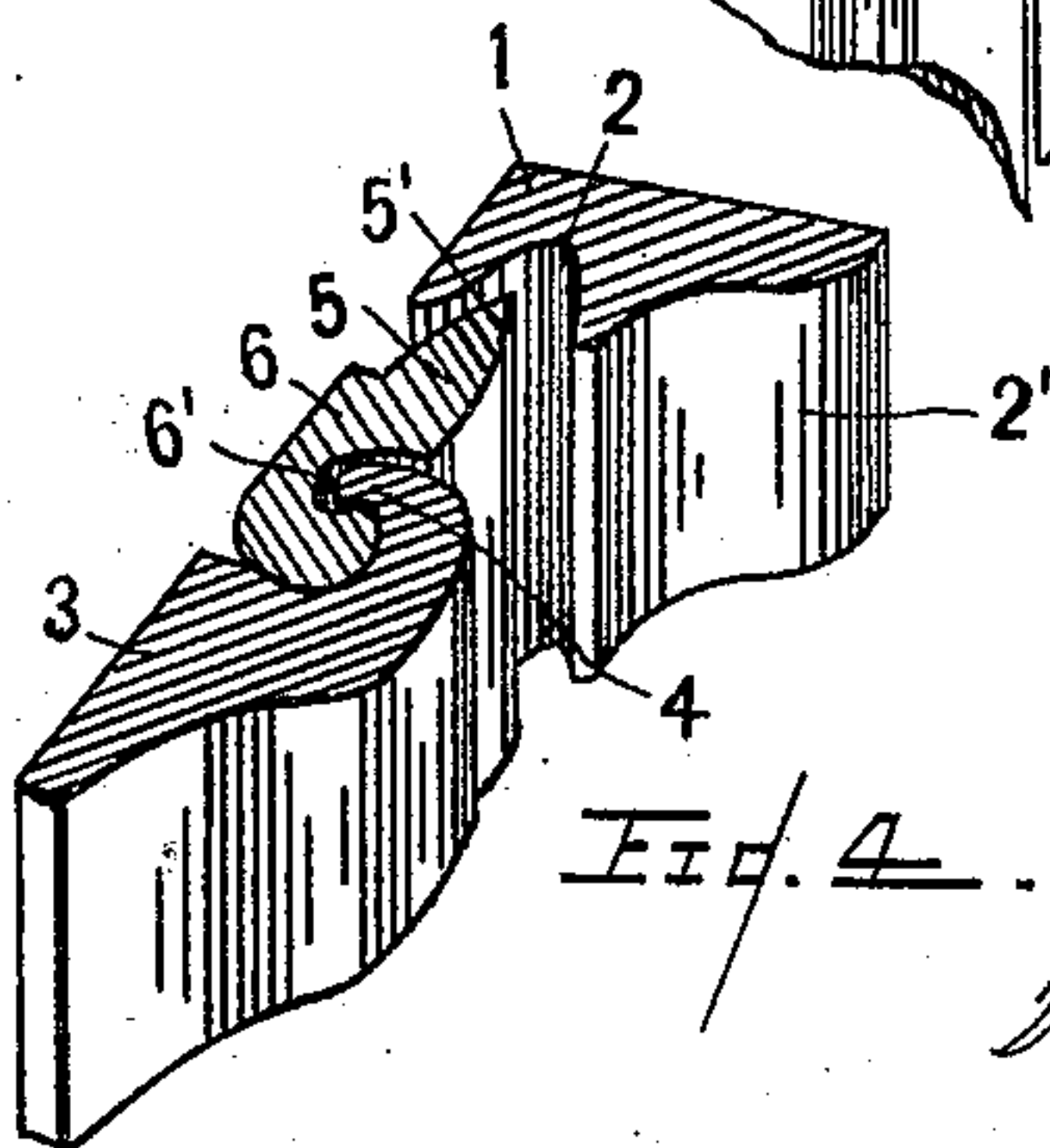
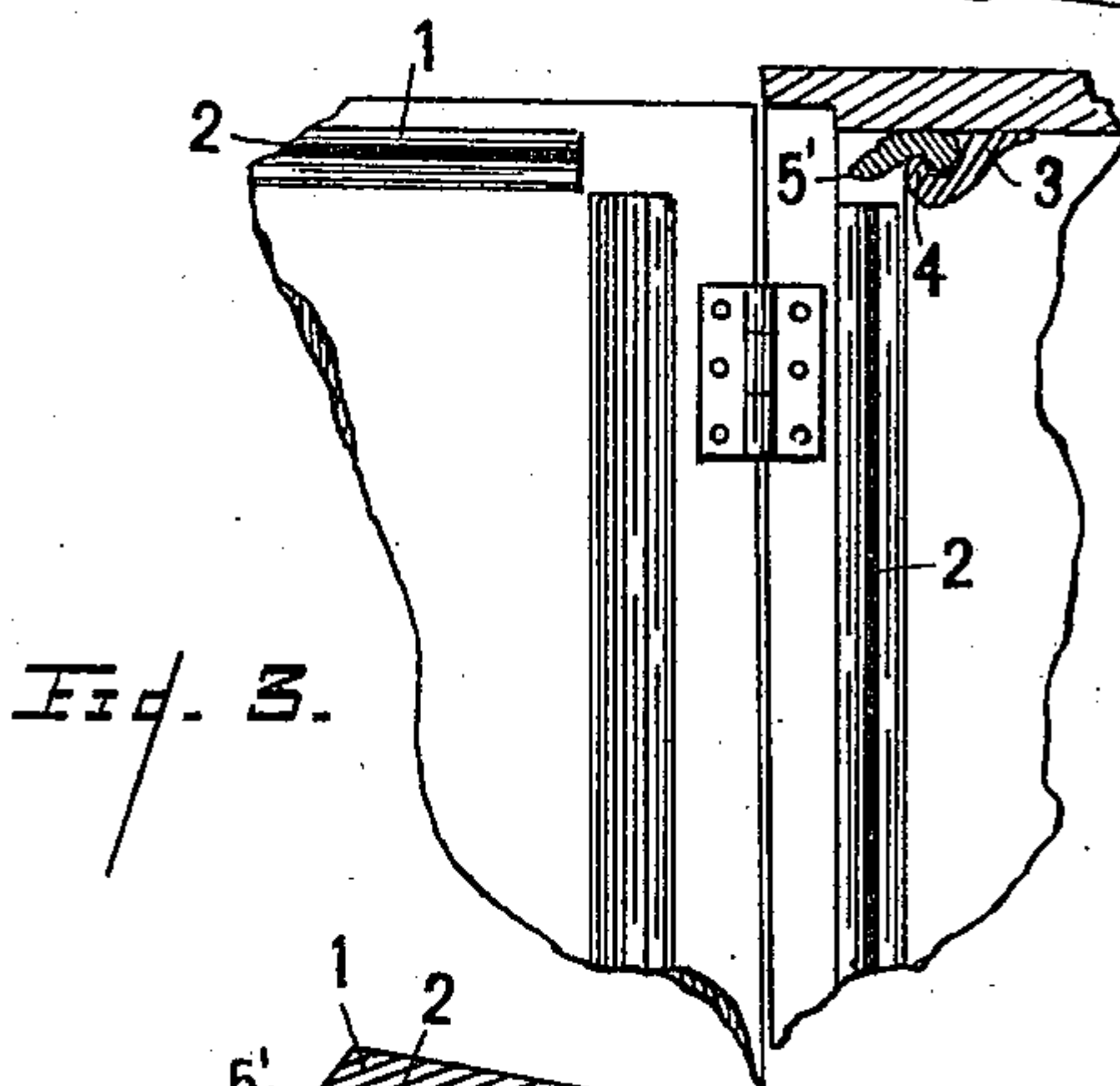
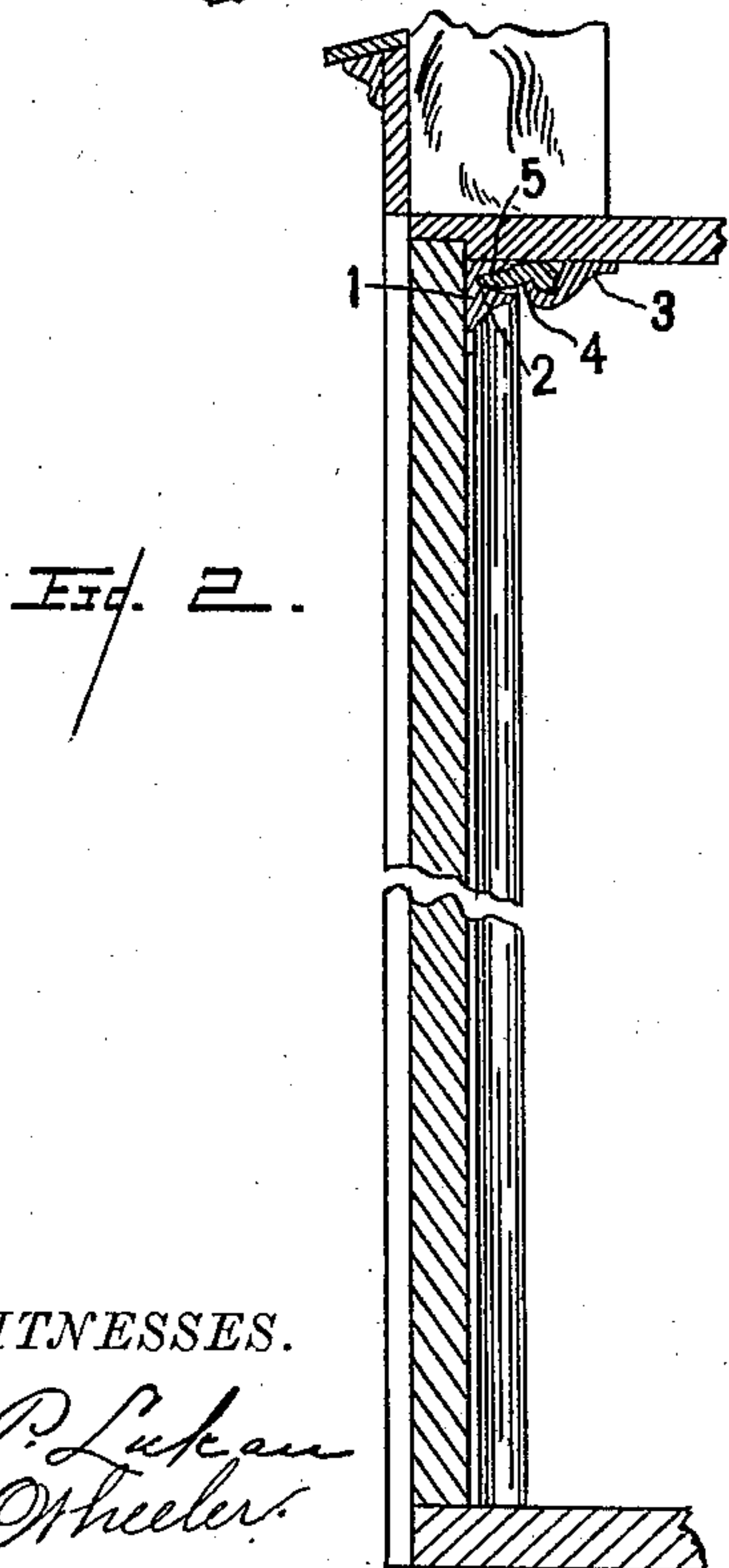
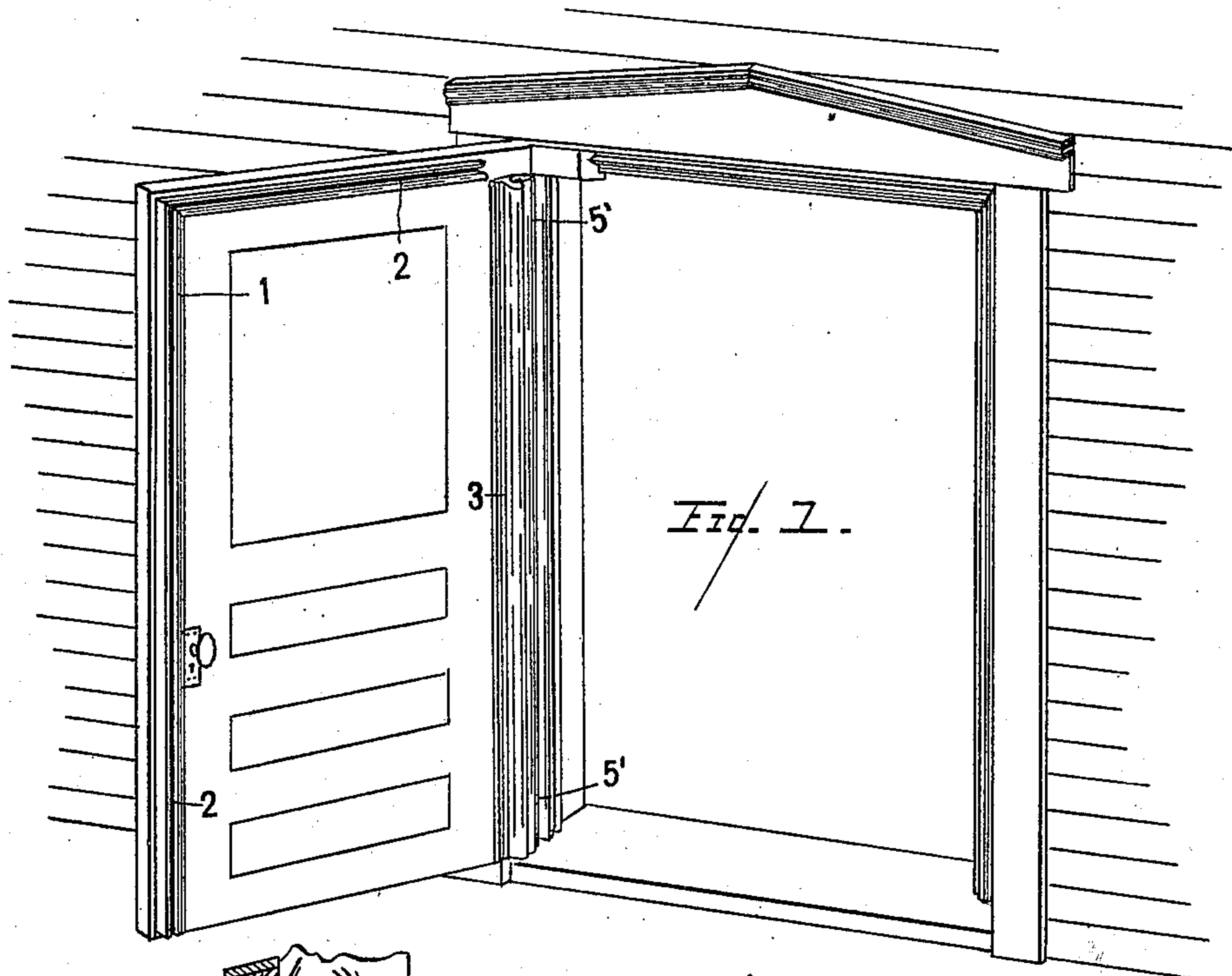


(No Model.)

W. J. DEVERS.
WEATHER STRIP.

No. 577,239.

Patented Feb. 16, 1897.



WITNESSES.

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WILLIAM JOSEPH DEVERS, OF SCRANTON, PENNSYLVANIA.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 577,239, dated February 16, 1897.

Application filed October 26, 1896. Serial No. 610,060. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM JOSEPH DEVERS, a citizen of the United States, residing at Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Weather-Strips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to new and useful improvements in weather-strips; and it consists in the construction and arrangement of parts, as hereinafter fully set forth, and pointed out particularly in the claims.

The object of the invention is to provide a weather-strip composed of a molding provided with a longitudinal groove along one of its faces and a similar molding or strip provided with a curved edge adapted to engage the rear portion of a movable tongue, one edge of said tongue adapted to be received by the longitudinal groove of said first-named molding. Some of the many advantages of this construction will appear in the more complete description following.

Referring to the drawings, Figure 1 is a perspective view of a door swung open from its casing and showing my improved weather-strip mounted thereon. Fig. 2 is a vertical transverse section through a door having my improved strip mounted thereon, showing the door closed and the operation of the strip when mounted upon the upper edge thereof, said view represented on an enlarged scale. Fig. 3 is an enlarged detail of a portion of a door-casing, showing my weather-strip mounted thereon in position to be engaged by the complementary portion of the strip, which portion is located upon a door hinged thereto, a portion of which door is represented in said figure; and Fig. 4 is an enlarged detail view of the weather-strip, showing more particularly the formation of the parts.

Referring to the figures of reference, 1 designates the female strip of molding, which is provided with a groove 2 along one of its longitudinal edges and has a sloping portion 2',

extending therefrom to afford means for attaching said strip to a door or casing, as hereinafter described, and to give strength and stiffness to said strip.

3 represents a strip of molding, which is provided with a curve or hook 4 along one of its longitudinal edges, and represents a bent finger in cross-section, as clearly shown in Fig. 4.

5 represents a tongue provided with a nose 5', said nose adapted to be received by the longitudinal groove 2 of strip 1.

6 designates the body of tongue 5, which is preferably oblong in cross-section, and which is provided with a longitudinal cavity 6' in one of its sides, (see Fig. 4,) said cavity being of such size as to loosely receive the hook 4 of strip 3.

In placing this improved strip in position for use the molding 1 is secured along the inner face of a door, far enough in from the edge thereof to come within the casing when the door is closed, as shown in Figs. 1 and 3. When molding 1 has been secured in place, as described, the door is closed and the nose 5' of tongue 5 placed within the groove 2 of said molding 1, so that the body portion 6 thereof will lie against the inner face of the casing, when strip 3 is placed adjacent to said body 6, so that the curved portion 4 thereof will extend into its cavity 6', as shown in Fig. 4, when said strip 3 may be secured to the casing by passing brads or other fastening devices therethrough and into said casing, as will be understood.

It will be seen that when the door is swung open the tongue 5 is free to have a limited side movement, but as the portion of body 6 of the tongue is greater in size than the distance between the nose 6' and the door-casing to which it is attached said tongue and body cannot get out of place.

It will now be seen that a door having a portion of this improved weather-strip mounted upon the edge thereof and the complementary portion of said strip mounted upon its casing may shrink, warp, or expand, yet a tight joint will always be maintained between said door and its casing, for as the parts of the weather-strip come together the inclined sides of the groove 2 will direct the nose thereinto, thereby overcoming the difficulty in former weather-

strips where the tongue is made stationary. The movement of the nose 5' of the tongue being limited to the sides of the groove 2, said tongue cannot get out of position to be engaged thereby.

It is preferred to mount strip 1 upon the upper and front edges of a door and the tongue and strip 3 upon the casing, and said strip 3 and tongue upon the rear edge of a door and the complementary portion upon the casing, as shown in Figs. 1 and 3.

It will be seen by reference to Fig. 3 that when the door is swung open the tongue 5 will droop or swing down, but as the grooved strip 1 is brought into engagement therewith said tongue will be raised by bearing upon the lower side of the groove of strip 1, and as the door continues to close a tight and perfect contact is made between said door and its casing, as shown in Fig. 2.

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

1. In a weather-strip of the character set forth, the combination of the grooved molding forming one portion of the weather-strip and the complementary portion consisting of a molding having a curved edge and a movable tongue having a longitudinal cavity

therein, said cavity adapted to loosely receive said curved edge and said tongue adapted to be received in the groove of said first-named strip as the door and casing upon which they are mounted are brought together, as set forth.

2. As a new article of manufacture, a weather-strip consisting of a grooved molding 1 having a side 2' extending therefrom, by means of which it may be secured upon a door-casing, the complementary portion of the weather-strip consisting of the molding 3 provided with a curved edge 4; and a tongue 5 having a body portion 6, said body portion being provided with a longitudinal cavity 6', the curved edge of said molding 3 adapted to be loosely received in the groove 6' of said tongue 5 when said molding 3 and tongue 5 are mounted upon a door and said tongue brought into mesh or engagement with the groove of said molding 1, as set forth, to form a tight closure therebetween.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM JOSEPH DEVERS.

Witnesses:

FRANK J. DEVERS,
J. H. TEAL.