

H. HIGGIN.
 WEATHER STRIP.
 APPLICATION FILED FEB. 4, 1911.

1,004,788.

Patented Oct. 3, 1911.

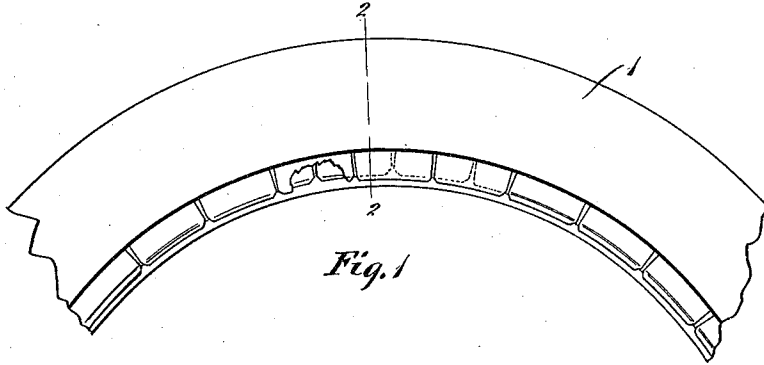


Fig. 1

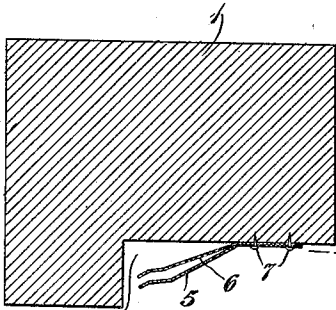


Fig. 2

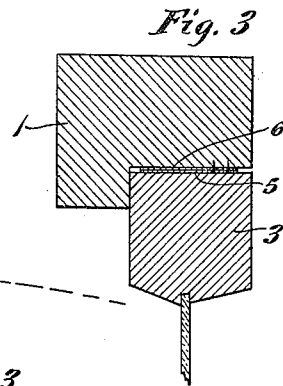


Fig. 3

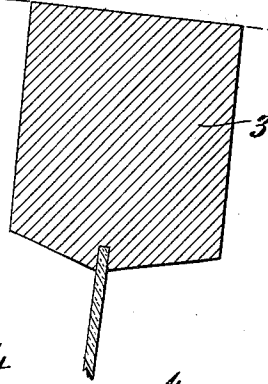
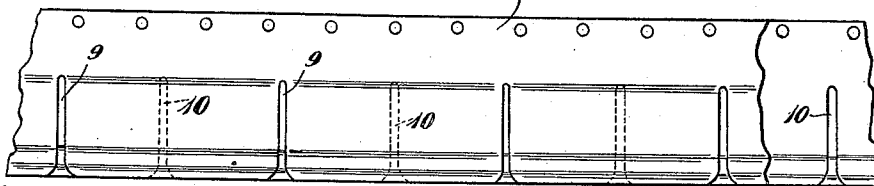


Fig. 4



Witnesses
 Carl W. Liffin
 A. Smith

Inventor
 Henry Higgin
 by Alfred M. Allen
 Attorney

UNITED STATES PATENT OFFICE.

HENRY HIGGIN, OF NEWPORT, KENTUCKY, ASSIGNOR TO THE HIGGIN MANUFACTURING COMPANY, OF NEWPORT, KENTUCKY, A CORPORATION OF WEST VIRGINIA.

WEATHER-STRIP.

1,004,788.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY HIGGIN, a citizen of the United States, and a resident of the city of Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Weather-Strips, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

The object of my invention is to provide a simple, cheap and effective weatherstrip for curved or arched openings, more particularly for Gothic, dormer and casement windows, or those of arched or semi-circular construction.

The invention consists of that certain novel construction and arrangement to be herein-after particularly pointed out and claimed, in which sheet metal strips are employed to close the opening between the sash and frame, and in which the weather strip is slotted transversely to its length in order to permit the strip of material to be attached to the curved surface.

In the preferred form of construction, a doubled strip or two sheet metal strips are secured together along one edge of the opening to be closed, with the free portion of the strips slotted or divided into wings, and in which the various sections of the two strips are placed in staggered relation to each other, so that the slotted portion of one strip will fall upon the body portion of the other. In some constructions, however, instead of having both strips attached either to the frame or to the sash as desired, it will be found advantageous to attach one of the strips to the sash and the other to the frame, and in this event, when the sash is open, the two strips will be entirely separate, but when the sash is closed, the two strips will be brought together and superimposed and effectually close the opening, in the same way that the closure is effected when both strips are attached either to the frame or to the sash.

In the drawings,—Figure 1 is a front elevation of a portion of the arched frame of a window opening with my improved weather strip in place. Fig. 2 is a transverse section taken on the lines 2, 2, of Fig. 1, showing the window sash open. Fig. 3 is a similar section with the sash closed. Fig. 4 is a plan view of the weather strip partly broken

away to show the relation of the two parts of the strip.

1 is the semi-circular frame of an arched window opening grooved at 2, to receive the upper portion of a sash 3 of a swinging window.

4 represents the weather strip as a whole. This weather strip is formed of two similar parts or strips 5, 6, of resilient sheet metal, preferably of bronze, and as already stated, these two strips may be secured,—one to the fixed frame and the other to the moving sash, or both may be secured together, and either to the fixed frame or to the sash. The essential feature is that when in use as a weather strip device, the two parts of the strip shall be superimposed.

In the preferable form of construction, as illustrated in the drawings, the two strips are secured together along one edge by nails or screws 7 to the window frame 1. In order that the strips may be effectively secured around the curved surface, the free portions of the strips are subdivided by transverse slots 9, 9, for one strip, and 10, 10, for the other, the slots being cut at right angles to the free edges of the strips. The two strips are then secured together, or secured the one to the frame and the other to the sash in such relation to each other that when the sash is closed, the slots 9 of one strip will come opposite the uncut body portion of the other, and vice versa. In order that there may be effective resiliency, the free portions of the two strips are bent into a flaring position as shown in Fig. 2, and when the sash is closed, the two strips will be forced together to effectively close the opening between the sash and frame as shown in Fig. 3.

The construction as above described is applicable to any curved surface with which a closure is to be made by a door or sash, although as stated, the construction is especially applicable for Gothic windows.

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

1. A weather strip for curved meeting surfaces, comprising two strips of resilient sheet metal adapted to be secured intermediate the curved meeting surface with the free edge of each strip divided into sections by transverse cuts, and with the divisions of each strip so disposed in relation to the divi-

sions of the opposing strip that when superimposed they shall bear staggered relation to each other, to close the sections when they are pressed together.

- 5 2. A weather strip for curved frames, comprising a double strip of resilient sheet metal adapted to be secured to a curved surface along one edge, with the free portion of each strip divided into sections, and having the divisions of each strip arranged in
10 staggered relation to each other to close the sections when they are pressed together.

3. The combination, with a curved frame and curved window sash to fit therein of two

strips of superimposed resilient sheet metal 15 secured along one edge to the curved meeting surface of the frame and with the free edges of the two strips slightly flaring from the said curved surface, the free portion of each strip divided into sections, and having 20 the divisions of each strip arranged in staggered relation to each other, whereby a complete closure will be made when the sash is closed.

HENRY HIGGIN.

Attest:

HENRY A. FABER,
CONRAD GUENTHER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."