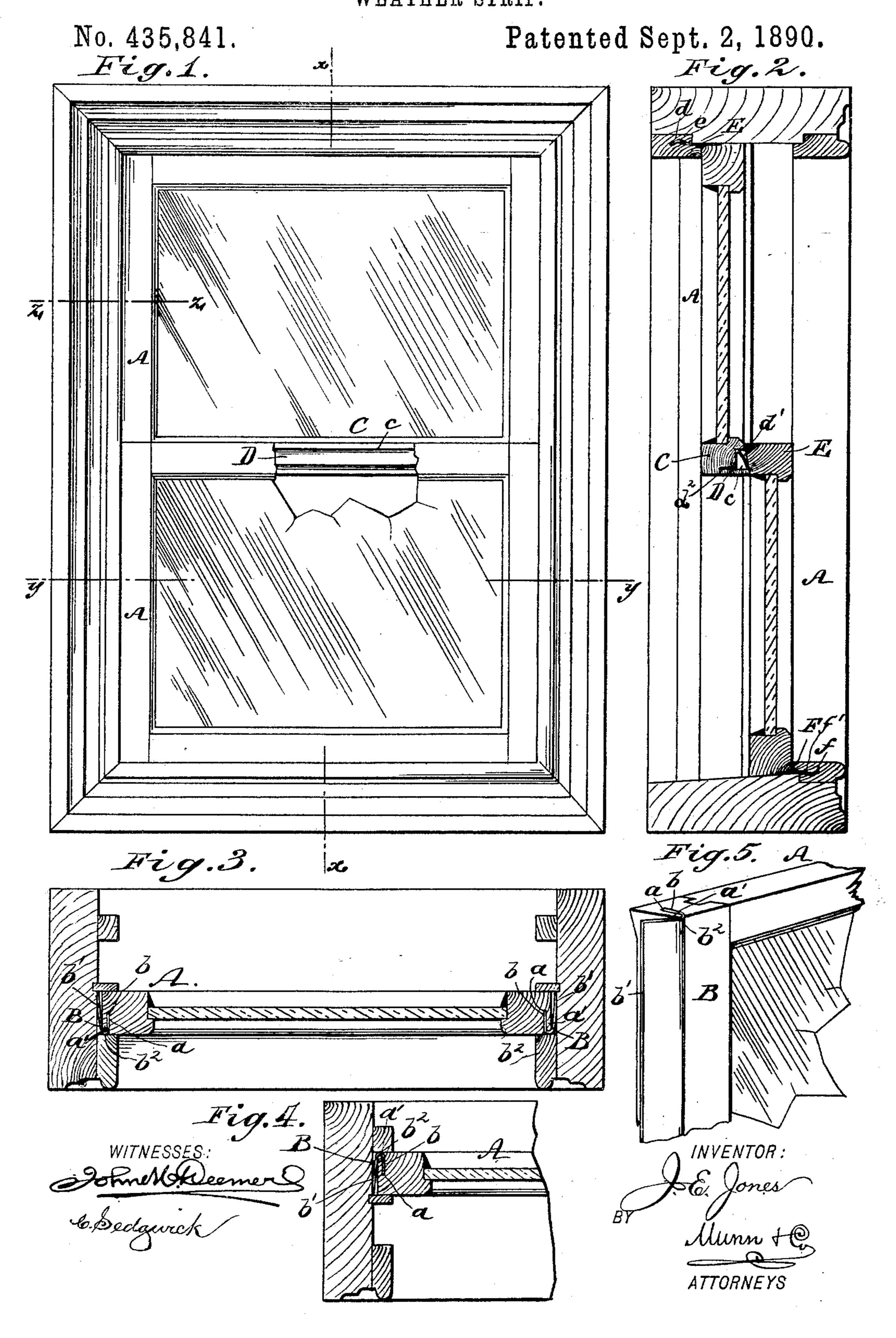
J. E. JONES.
WEATHER STRIP.



United States Patent Office.

JOHN E. JONES, OF NEW YORK, N. Y.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 435,841, dated September 2, 1890.

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To all whom it may concern:

Be it known that I, JOHN E. JONES, of New York, in the county and State of New York, have invented a new and Improved Weather-5 Strip, of which the following is a full, clear,

and exact description.

My invention relates to a weather-strip designed more particularly for windows; and the invention consists, principally, of a strip 10 of spring metal bent longitudinally to be Ushaped in cross-section, applied to the edge of the sash, so that the outer part of the strip will press constantly against the window-frame.

The invention also consists of similar strips 15 at the top and bottom of the sash and at the meeting-rails, all as hereinafter described and

claimed.

Reference is to be had to the accompanying drawings, forming a part of this specifica-20 tion, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a broken front elevation of a window-frame and sash having my invention applied thereto. Fig. 2 is a sectional eleva-25 tion of the same on line x x of Fig. 1. Fig. 3 is a sectional plan view on line y y of Fig. 1. Fig. 4 is a detailed section on line zz of Fig. 1, and Fig. 5 is a detailed perspective view of one corner of the sash and weather-strip 30 removed from the frame.

Along each side of the sash A is attached a weather-strip B, of sheet metal, preferably spring-brass, bent longitudinally to be substantially U-shaped in cross-section. The 35 preferred form is shown clearly in Fig. 5, the plate being bent to form the member b, the outer member b', and the curve b^2 . The member b is pressed into a slot a, formed in one of the outer surfaces of the sash parallel with 40 and a short distance from the vertical edge of the sash. This slot forms a bridge a', which re-enforces the spring and prevents injurious crushing or buckling of the spring at any part. This bridge acts as a cleat to re-45 tain the strip in place, and the strip fits over it, so that the upper part of the bridge reaches I

up to the fold in the strip, and it at all times keeps the fold from being crushed by any side pressure that may happen to come upon the sash.

In a recess c, formed in the front edge of the meeting-rail C, is fitted the strip D, of spring metal. This is substantially U-shaped in cross-section, with a flange d^2 to fit in a slot in the sash, as shown in Fig. 2. The outer 55 member d' by its spring action presses against the rail E, and forms a tight point

when the sashes are closed.

At the top of the window in a slot d is fitted the metal spring plate or strip E, formed with 60 a groove e, which deflects the outer edge of the plate downward to form a close contact with the upper edge of the sash, and at the window-sill is fitted in a slot f a similar strip F, which is slightly grooved at f' to normally 65 elevate the outer edge of the strip, so it will have a sufficient spring-pressure against the bottom of the sash when closed to exclude air, dust, snow, rain, &c.

Having thus described my invention, what I 70 claim as new, and desire to secure by Letters

Patent, is—

1. A sash formed with a slot in one of its outer surfaces, forming a bridge at the corner of the sash combined with a metallic strip U-75 shaped in cross-section, one of the members of the strip being inserted in the said slot,

substantially as described.

2. A weather-strip composed of a ribbon of sheet metal bent longitudinally into U shape, 80 in combination with a sash formed with a slot in its outer surface near to and parallel with the edge of the sash, one member of the strip being inserted in the slot, the other being held by spring-pressure against the window- 85 frame, and the curve b^2 acting as a frictionsurface against the window-cleat, substantially as described.

JOHN E. JONES.

Witnesses:

H. A. WEST,

C. SEDGWICK.