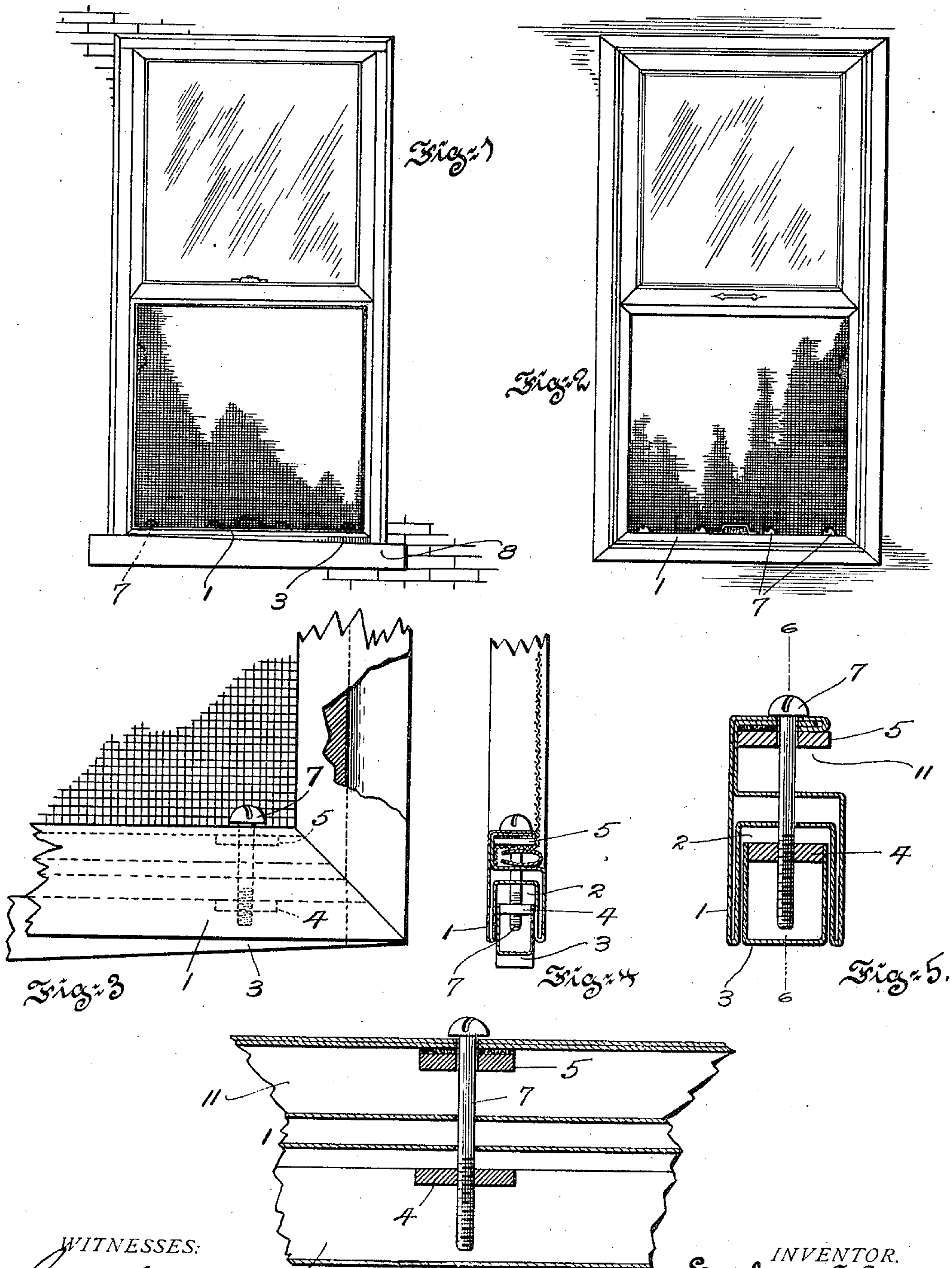


H. S. BENSON.  
METAL SCREEN.  
APPLICATION FILED JULY 30, 1910.

999,479.

Patented Aug. 1, 1911.



WITNESSES:  
Frank Osborne  
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Fig. 6

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# UNITED STATES PATENT OFFICE.

HEPBURN S. BENSON, OF ALDAN, PENNSYLVANIA.

METAL SCREEN.

999,479.

Specification of Letters Patent.

Patented Aug. 1, 1911.

Application filed July 30, 1910. Serial No. 574,642.

*To all whom it may concern:*

Be it known that I, HEPBURN S. BENSON, a citizen of the United States, residing at Aldan, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Metal Screens, of which the following is a specification.

This invention relates to metallic screens for windows and the like and has more particular reference to an improvement upon Letters Patent, Nos. 802,090, 836,419 and 836,475, granted to Henry W. Watson, *et al.*

The metallic screens embodied in the above-recited patents, while generally efficient have proven in use unsatisfactory in this respect that if the window sill is irregular or uneven, the said metallic screens will not properly fit the window or like opening to which they are applied. In practice should the window sill be uneven or crooked when a metallic screen is fitted to place, it is customary to build up the window sill to provide a level or even surface by securing to the window sill a strip of wood or the like. This practice, however, is disadvantageous, in that water is retained upon the window sill, which is disadvantageous inasmuch as said water serves in time to rot the

To overcome the above-recited disadvantageous features by providing a metallic screen with an adjustable base piece, whereby a screen may be caused to fit crooked or uneven window sill is the principal object of the present invention.

A further object of the present invention is to provide a neat, attractive, efficient and comparatively inexpensive adjusting base piece for metallic screens, which may be readily regulated from the inside of a window or the like, without removing the screen from the window.

Other objects of the present invention relate to general details of construction and arrangement of parts.

The invention consists of the improvements hereinafter described and finally claimed.

The nature, characteristic features and scope of the invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof and in which:

Figure 1, is a view in elevation showing the exterior of a window frame having applied thereto a metallic screen embodying

the invention, Fig. 2, is a similar view illustrating, however, the window frame from the inside, Fig. 3, is a fragmentary view principally in elevation of a metallic screen equipped with a device of the invention, and illustrating the position of the adjustable base in fitting a window sill of a crooked nature, Fig. 4, is a fragmentary view in cross-section illustrating the adjusting device of the invention in the same position as in Fig. 3, Fig. 5, is a view in cross-section drawn to an enlarged scale of the adjusting feature of the invention and illustrating the adjustable base in normal or flush position with the bottom of the screen, and Fig. 6, is a fragmentary view in longitudinal section taken upon the line 6—6 of Fig. 5.

Referring to the drawings there is disclosed a metallic screen for windows and like openings of the general configuration disclosed in the Letters Patent above mentioned in which the framework of the screen is tubular sheet metal consisting of horizontal top and bottom pieces and vertical lateral pieces, the vertical lateral pieces being provided with channels or grooves to receive suitable guide strips of the window casing. The bottom piece 1, in the present instance is channeled as at 2, to accommodate a vertical adjustable base strip 3. As is clearly illustrated this base strip 2, is of generally U-shaped cross-section and extends throughout the width of the screen. This base strip 1, is provided at intervals with laterally extending cross-bars 4, and similar bars 5, may be present in the channeled portion 11, of the base piece as clearly illustrated in Figs. 5 and 6. The said bars 4, and 5, may be soldered or otherwise secured to place as desired.

Adjusting screws 7, are present for raising and lowering the base strip 3. As clearly illustrated in Figs. 5, and 6, adjusting screws 7, have screw-threaded relation with the cross-bars 4, the heads of the screws abutting against the top surface of the base piece. By a slight adjustment the base 3, may be caused to extend below the bottom edges of the channeled base piece. In this connection, it may be remarked that the base piece 3, may be caused to abut against and fit more or less irregular or crooked window sills. As clearly illustrated in Fig. 1, the window sill 8, is shown as inclining toward the right-hand side of the figure. To compensate for this inclination, the ad-



justable base strip 3, is manipulated until the desired angle is procured, whereupon the metallic screen is made to fit snugly and evenly within the window frame. The appearance of the window screen from the outside of the window, see Fig. 1, is not marred by the addition of this strip and the appearance of the window screen from the interior, see Fig. 2, is unchanged with the exception of the heads of the adjusting screws. By the addition of this adjusting strip 3, metallic screws are rendered more efficient in that no cracks are left through which insects may find their way through. Also, if a window sill is perfectly level, the adjusting strip 3, is left flush with the bottom edges of the base piece, see Fig. 5.

What I claim is:

In a window screen, a frame consisting of

strips of sheet metal bent to form lateral side pieces and longitudinal end pieces one of said end pieces consisting of a single sheet of metal channeled longitudinally by bending up a double edged portion of U-shape cross-section, a longitudinal adjusting strip mounted for up and down movement in said channeled portion and screws for cooperating with said adjusting strip for raising and lowering the same either in parallelism with or at an inclination to said end piece.

In testimony whereof I have hereunto signed my name.

HEPBURN S. BENSON.

Witnesses:

EDGAR W. S. JACKMAN,  
JOHN T. FISHER.

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