

C. S. SMALLWOOD.
 WINDOW SASH.
 APPLICATION FILED OCT. 9, 1907.

911,619.

Patented Feb. 9, 1909.

Fig. 1.

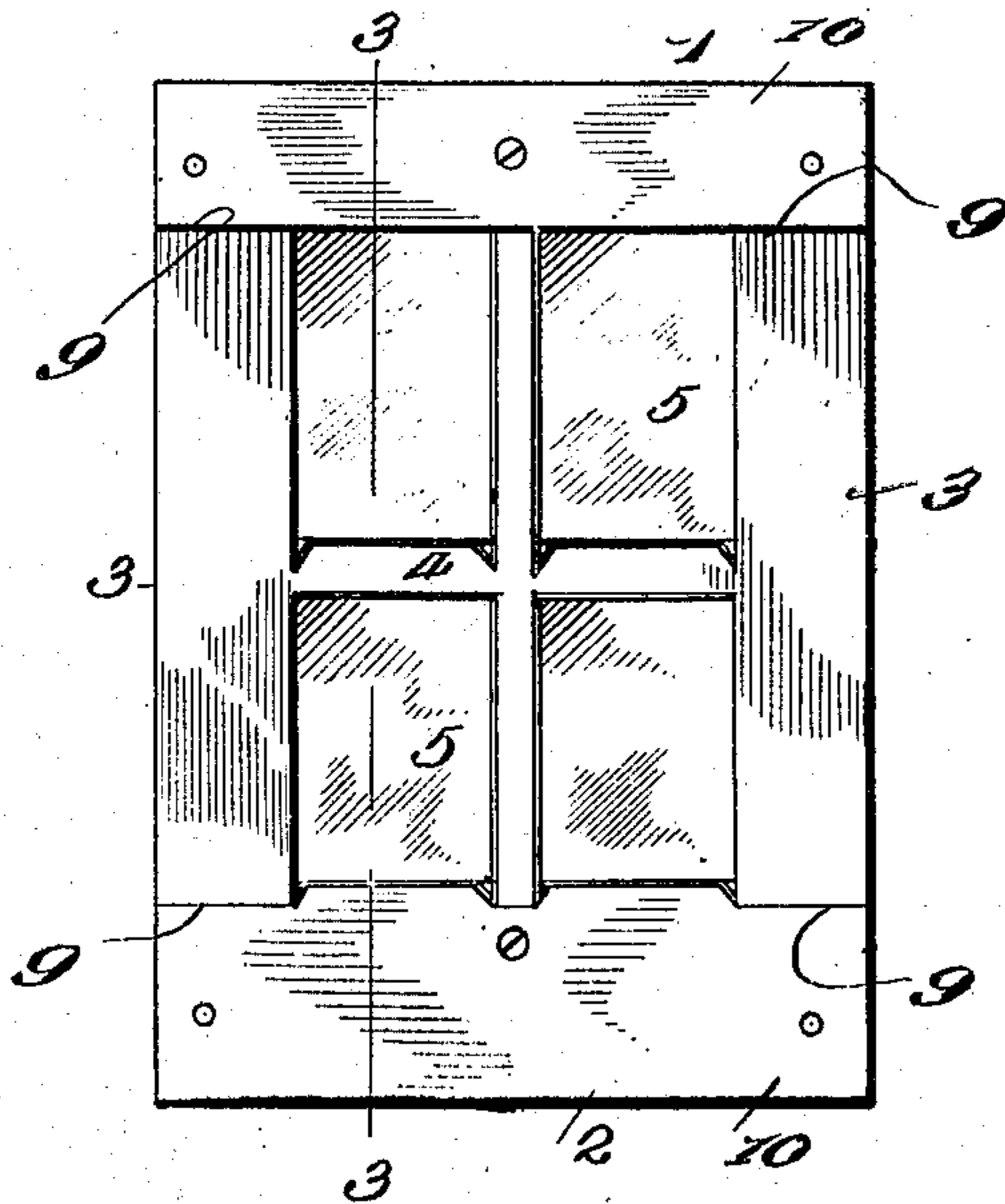


Fig. 3.

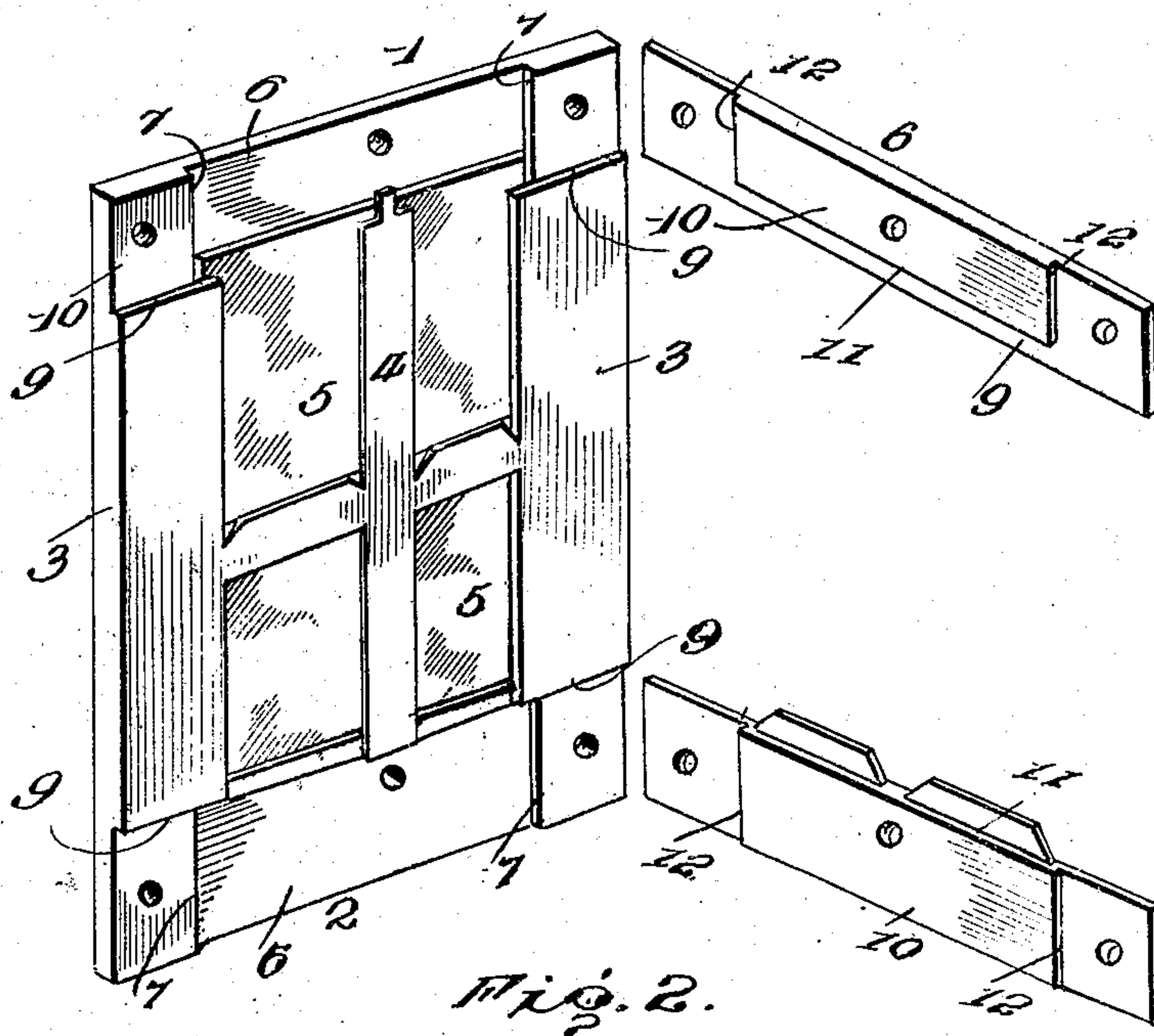
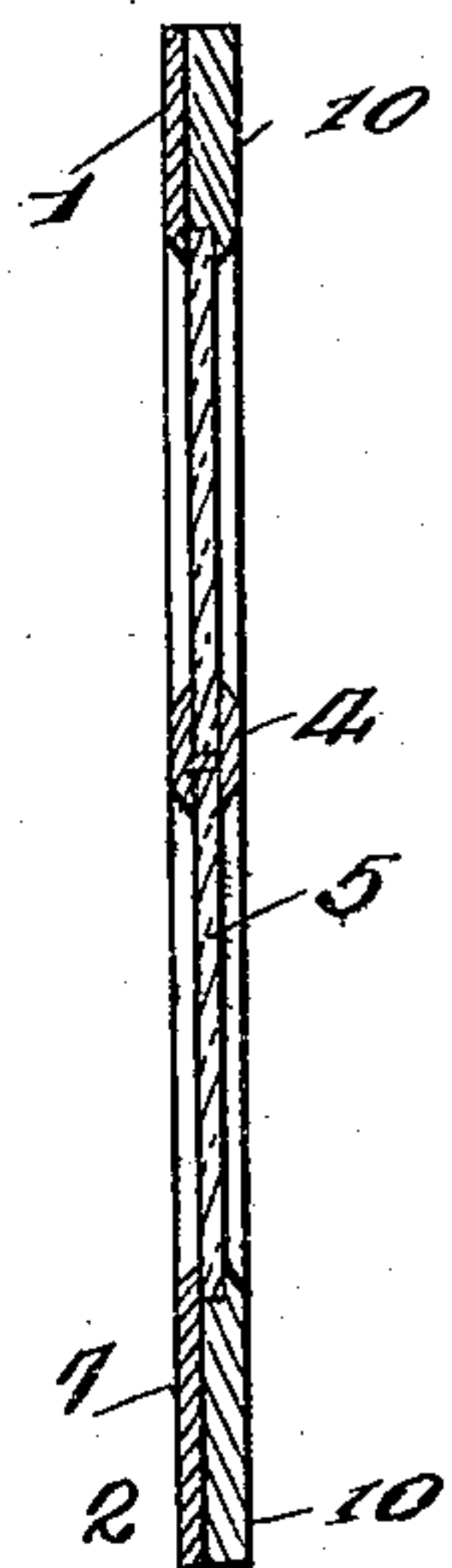


Fig. 2.

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Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES S. SMALLWOOD, OF CHOKOLOSKEE, FLORIDA.

WINDOW-SASH.

No. 911,619.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES S. SMALLWOOD, citizen of the United States, residing at Chokoloskee, in the county of Lee and State of Florida, have invented certain new and useful Improvements in Window-Sashes, of which the following is a specification.

The object of this invention is to provide a simple and durable construction of window sash, comprising upper and lower rails provided with detachable sections, ordinary stiles, and, if desired, a number of bars for supporting a requisite number of window panes, said parts preferably to be constructed of metal, either hollow or solid, thereby embodying strength, lightness, and simplicity of construction.

The invention consists in certain constructions and arrangements of parts that I shall hereinafter fully describe and then point out the novel features in the appended claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a side elevation of my improved window sash; Fig. 2 is a perspective view of the window sash with the detachable sections separated from the rest of the sash; and Fig. 3 is a vertical transverse section of the sash on the line 3—3 of Fig. 1.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

My improved sash comprises the upper rail 1, the lower rail 2, the common stiles 3, and if desired, one or more pane-supporting bars 4, the opposing edges of the stiles 3 and the bars 4 being provided with grooves for accommodating the window panes 5, which are slid endwise therein.

The rails 1 and 2 are formed in their outer faces with longitudinally extending cut-away portions or recesses 6 which permit the panes to be inserted in the grooves and which terminate in inwardly facing or opposing shoulders 7, the ends of the stiles being formed in their corresponding faces with relatively shallow recesses, as shown, which provide outwardly facing shoulders 9. The upper and lower rails are provided with detachable sections 10 which fit in the cut-away portions or recesses 6, and the inner

edges of which are recessed, as indicated at 11, so as to extend over the adjacent ends of the panes and retain the same securely in position in the grooves, said sections being detachably secured to the rails by screws or other suitable fastening means. The ends of the sections 10 overlap the adjacent ends of the stiles and are recessed in their inner surfaces to form oppositely facing shoulders 12 which bear against the corresponding opposing shoulders 7 at the terminals of the recesses 6, to prevent any lateral movement of the said sections, said ends of the latter also fitting in the recesses in the ends of the stiles and abutting against the outwardly facing shoulders 9 thereof to hold the respective sections against upward or downward displacement, and thus form interlocking joints with the main portion of the sash to rigidly secure the detachable rail sections thereto.

All edges surrounding the window panes are beveled and on the outside, the lower corners of surrounding edges are notched as shown, thereby serving to drain off water flowing down said panes.

In the manufacture of this improved window sash the stiles, the non-detachable parts of the rails and the bars, if any, are preferably constructed of a single piece of material while the detachable rail sections are made of separate pieces. The edges of the window panes are preferably dipped in white lead and then slid into the grooves provided for them, and the detachable sections secured in place.

Having thus described the invention, what is claimed as new is:

A window sash comprising stiles formed in their inner edges with grooves, and recessed at their ends to constitute outwardly facing shoulders, pane supporting bars interposed between the stiles and having their edges grooved and arranged to cooperate with the stiles to accommodate the window panes, upper and lower rails formed with cut-away portions to permit the panes to be inserted in the grooves and terminating in opposing shoulders, and rail sections detachably secured to the upper and lower rails and fitting in the cut-away portions thereof with their inner edges recessed so as to extend over the adjacent edges of the panes to retain the latter in the grooves, the ends of said sections overlapping the adjacent ends of the

stiles and being recessed to form oppositely facing shoulders abutting against the shoulders at the terminals of the cut-away portions, said sections also abutting against the outwardly facing shoulders of the stiles to form interlocking joints with the main portion of the sash.

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

CHARLES S. SMALLWOOD. [L. s.]

Witnesses:

W. P. Cox,

J. T. RUSSELL.