

F. DAVISON.
 FLY PROOF AND OTHER LIKE SCREEN FOR WINDOWS.
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978,437.

Patented Dec. 13, 1910.

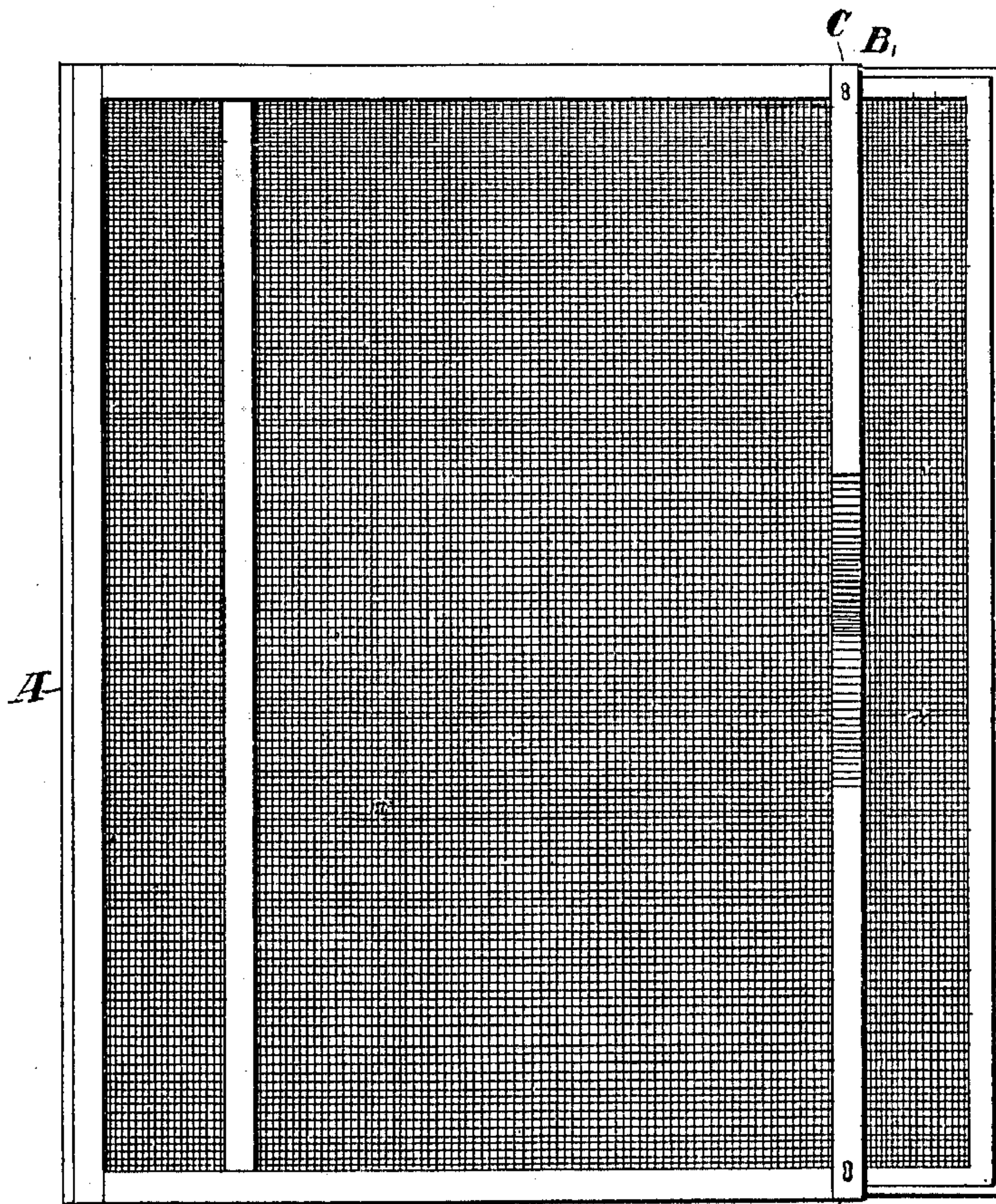


Fig. 1.

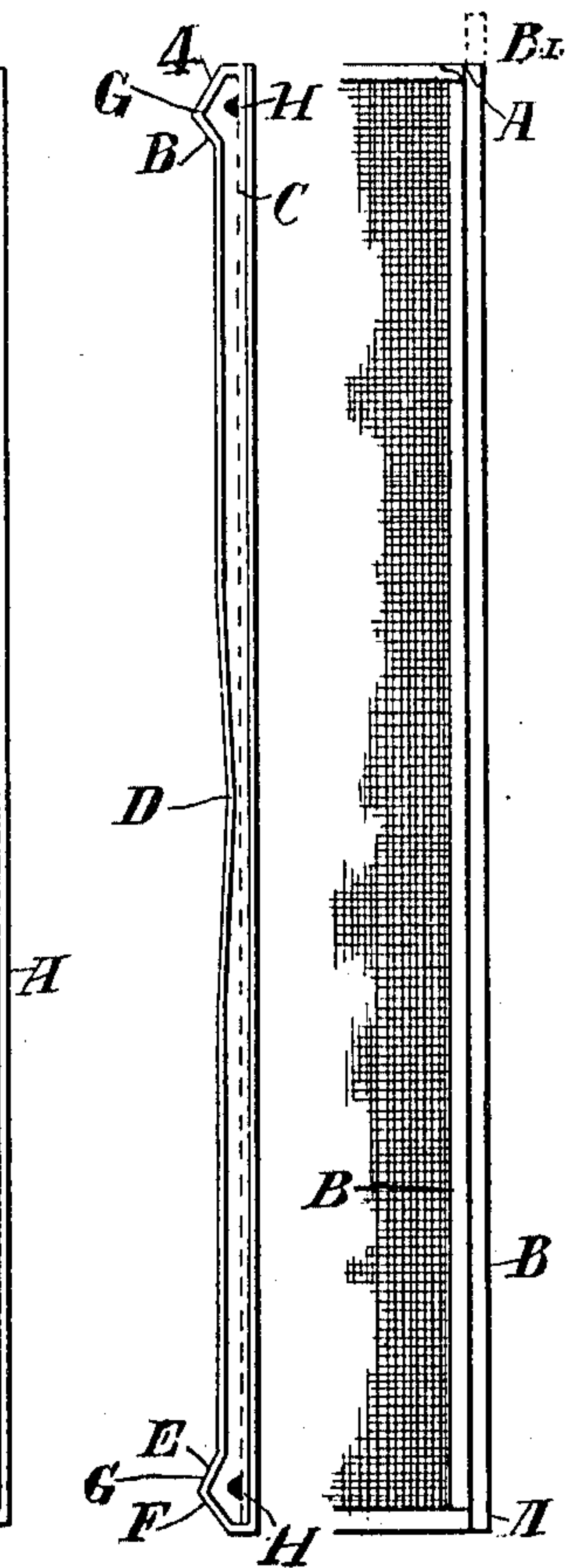


Fig. 4. Fig. 2.



Fig. 3.

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Inventor:

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UNITED STATES PATENT OFFICE.

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FLY-PROOF AND OTHER LIKE SCREEN FOR WINDOWS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FREDERICK DAVISON, a British subject, residing at 6111 West Park avenue, city of St. Louis, State of Missouri, have invented an Improvement in Fly-Proof and other Like Screens for Windows, of which the following is a specification.

My invention relates to improvements to screens composed of two slidably joined frames whereby their efficiency in excluding flies and other insects is greatly increased and whereby they are retained in the window whether the sash be open or shut; and the objects of my improvements are to fix to the outer vertical member of each of the two slidably joined frames a thin flange, this flange being of such thinness that it can be inserted between the window sash and window beading without making a special space for it and without alteration of the window frame. These flanges hold the screen in position close to the sash, whether the sash be open or shut. They may be fastened to the outer vertical members of the frames by rivets, nails, solder, clenching, or by other suitable means or may be an extension of the material of which the said outer vertical frame members are composed. They may be adapted to slidably join screen frames of metal, wood or other material and may be extended upward beyond the level of the top horizontal members of the frames so that should the sash be raised accidentally above the level of the said top members, the screen is held securely in the window and their outside edge is made preferably of single thickness, without fold.

I fix a cover piece to the inside end of the top and bottom horizontal members of the outer frame as follows: One end of this cover piece or strip is fastened to the inside end of the top member of the outer frame, thence the cover piece descends at an angle until it touches the wire cloth of the inner frame which it traverses downward with a slight inward curve near the center of the screen till near the bottom horizontal member of the outer frame, whence it extends outwardly at an angle and fastens to the inside end of the said bottom member. The function of this cover piece or strip is to press the wire cloth of the inner frame against the outer frame and thereby prevent the passage of flies etc. between the frames. The wire cloth of the outer frame is not attached to

this cover piece, thereby enabling the inner frame to be inserted between the cover piece and the outer frame. A further advantage this cover piece has is that being flat it is not rigid along its length, which combined with its slight inward curve and the angle at either end exercises sufficient pressure on the wire cloth of the frames and yet permits of the two frames being taken apart if desired, or of being put together after the processes of manufacture are entirely completed, thereby cheapening the production.

I attain these objects by the mechanism illustrated in the accompanying drawings in which:

Figure 1 shows a front elevation of the usual slidably joined screen of two frames fitted with my improvements A, A, being the two outer flanges, and B is the cover piece or strip.

Fig. 2 is a detached outside member of one of the frames showing my flange A, A attached, the dotted portion B¹, showing how the flange may be extended up beyond the level of the top member of the frame, if desired.

Fig. 3 is a cross section of Fig. 2, taken at B, B, showing the flange A attached to the side member B, and wire cloth of screen C.

Fig. 4 is a cross section of Fig. 1 taken at C, C, showing a side view of the cover piece or strip attached by the one end to the end of the top member of the outer frame A descending at an angle B, to the wire cloth of the inner frame C, traversing it downwardly with a slight curve near the center D, till near the inside end of the bottom member of the outer frame, E, thence extending outwardly at an angle and fastening to the said end of the said bottom member F. G G are the spaces formed by the angles of the cover piece and the ends of the top and bottom members of the frame together with the inside vertical member of the frame I. These spaces permit of the easy insertion and withdrawal of the top and bottom members of the inner frame (to which the screen wire of the inner frame is attached) shown in Fig. 4 as H H.

I claim:

1. In combination with a fly-proof or other like screen for windows composed of an inner and an outer frame slidably joined, a thin side flange on the outer member of

each frame, said side flange extending upward beyond the level of the top member of the frame, substantially as set forth.

2. In combination with a fly-proof or
5 other like screen for windows composed of an inner and an outer frame slidably joined with a lateral movement only, a thin side flange composed as to its outer edge of a single thickness of material without fold on the
10 outer member of each frame substantially as described and for the purpose specified.

3. In combination with a fly-proof or other like screen for windows composed of an inner and an outer frame slidably joined
15 a cover piece secured by one end to the inside end of the top member of the outer frame, descending thence at an angle till it presses the wire cloth of the inner frame, continuing along the said wire cloth with a slight inward curve near the center to near the inside
20

end of the bottom member of the outer frame thence extending outwardly at an angle and fastening to the inside end of the said bottom member for the purpose specified.

4. In combination with a fly-proof or
25 other like screen for windows composed of an inner and an outer frame slidably joined and having a cover piece for pressing the wire cloth of the inner frame against the outer frame, a thin side flange on the outer
30 member of each of the frames substantially as described and for the purpose indicated.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FREDERICK DAVISON.

Witnesses:

CLEM A. HACK,
S. E. HACK.