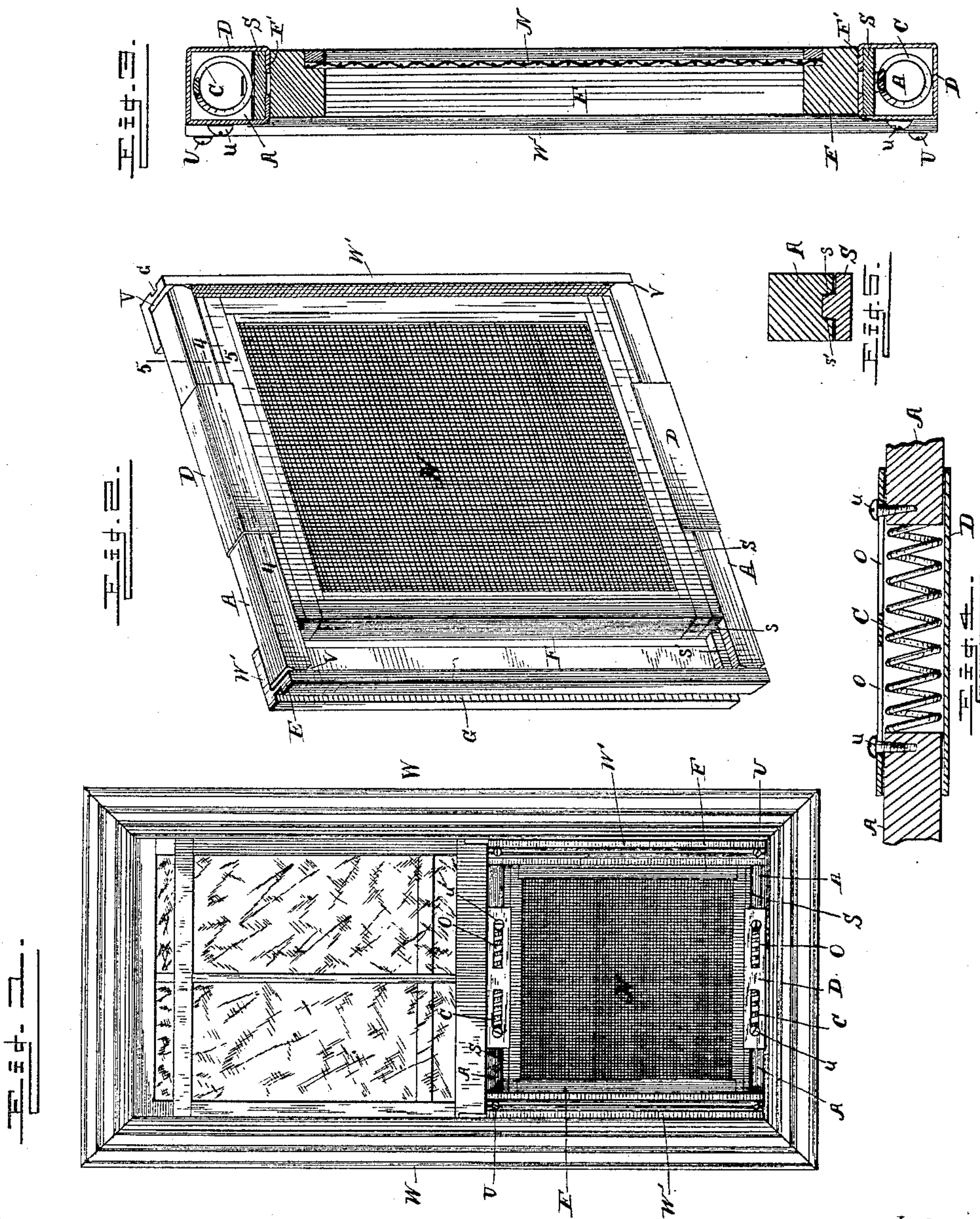


(No Model.)

B. H. DODD.
WINDOW SCREEN.

No. 450,792.

Patented Apr. 21, 1891.



Witnesses

P. G. Brooks.

Inventor

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UNITED STATES PATENT OFFICE.

BION H. DODD, OF ROSENDALE, WISCONSIN.

WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 450,792, dated April 21, 1891.

Application filed May 7, 1890. Serial No. 350,901. (No model.)

To all whom it may concern:

Be it known that I, BION H. DODD, a citizen of the United States, residing at Rosendale, in the county of Fond du Lac and State of Wisconsin, have invented a new and useful Window-Screen, of which the following is a specification.

This invention relates to window-screens, and more especially to that class thereof which are extensible to adapt them to windows of varying widths; and the object of the invention is to improve the construction of devices of this character heretofore made.

With this end in view the invention consists of the specific details and arrangement of parts, as hereinafter more fully set forth, and as illustrated in the drawings, in which—

Figure 1 is an elevation of a window with my improved screen in place therein. Fig. 2 is an enlarged perspective view of the screen from the rear. Fig. 3 is a central vertical section of the same. Fig. 4 is an enlarged horizontal section of one of the guides on line 4 4 of Fig. 2. Fig. 5 is a cross-section through one strip and bar on the line 5 5 of Fig. 2.

Referring to the said drawings, the letter W designates the window having the usual sashes, as shown, and within this window is removably placed my improved screen, the upper sash being raised to admit it, and then lowered, so that its lower edge will rest upon the upper edge of the screen while the sides of the latter engage the beads in the window-frame. In order, however, to adapt the screen to windows of varying widths, I construct it in the following manner:

N is the netting, which is secured to a rectangular frame F, and W' are wings at the sides of this frame having grooves G in their outer edges adapted to engage the beads in the window-frame, as will be understood. These wings are L-shaped in cross-section, their broader bodies sliding against the front of the frame F, and their narrower feet E standing at the edge of the device and having the said grooves. These wings are slightly longer than the height of the frame, and at their upper and lower ends are pivotally connected by screws U to the outer

ends of arms A, which are beveled, as shown at V, and whose bodies slide against the upper and lower edge of the frame. By reason of this pivotal connection and the said bevel the wings can be canted slightly to accommodate the device to windows whose frames are slightly out of rectangular, as when the house has settled. Otherwise there would be left disagreeable openings at the edges of the screen through which flies might enter the room.

To the upper and lower bars of the frame are secured strips S, having beads s, which slide in grooves s' of the arms A, and metallic guides D are provided having inwardly-bent flanges F', which pass between these strips and the frame proper, as shown in Fig. 3. Within the said guides are seated coiled springs C, and the inner ends of the guides D enter the opposite open ends of the guides and bear upon the opposite ends of these springs. Slots O are formed in the front sides of the guides, through which project studs u, carried by the arms A, whereby the latter are prevented from being displaced.

In putting this improved screen in position the wings are first compressed until the screen can be passed into the window-frame, after which the upper sash is raised and then lowered upon the upper end of the screen, as above described. The pivotal connection of the wings with the frame permits the function mentioned, and the peculiar connection of the inner ends of the arms prevents the existence of any unsightly nails or screws which might catch upon or in the curtains or window-shade.

I claim as the salient points of this invention—

The herein-described screen, the same comprising a rectangular frame covered with netting, strips secured to the upper and lower bars thereof and having tongues on their outer faces, independent arms arranged in pairs and having grooved inner faces engaging said tongues, wings connecting the outer ends of said arms and constituting lateral extensions for the frame, expansive springs between the inner ends of the arms of each

pair, slotted metallic guides embracing said
springs and inner ends, and their edges be-
ing seated between said strips and the frame,
and studs in said arms engaging said slots,
5 each and all, as and for the purpose herein-
before set forth.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in
presence of two witnesses.

B. H. DODD.

Witnesses:

FRANK BOWE,

C. H. ANDERSON.