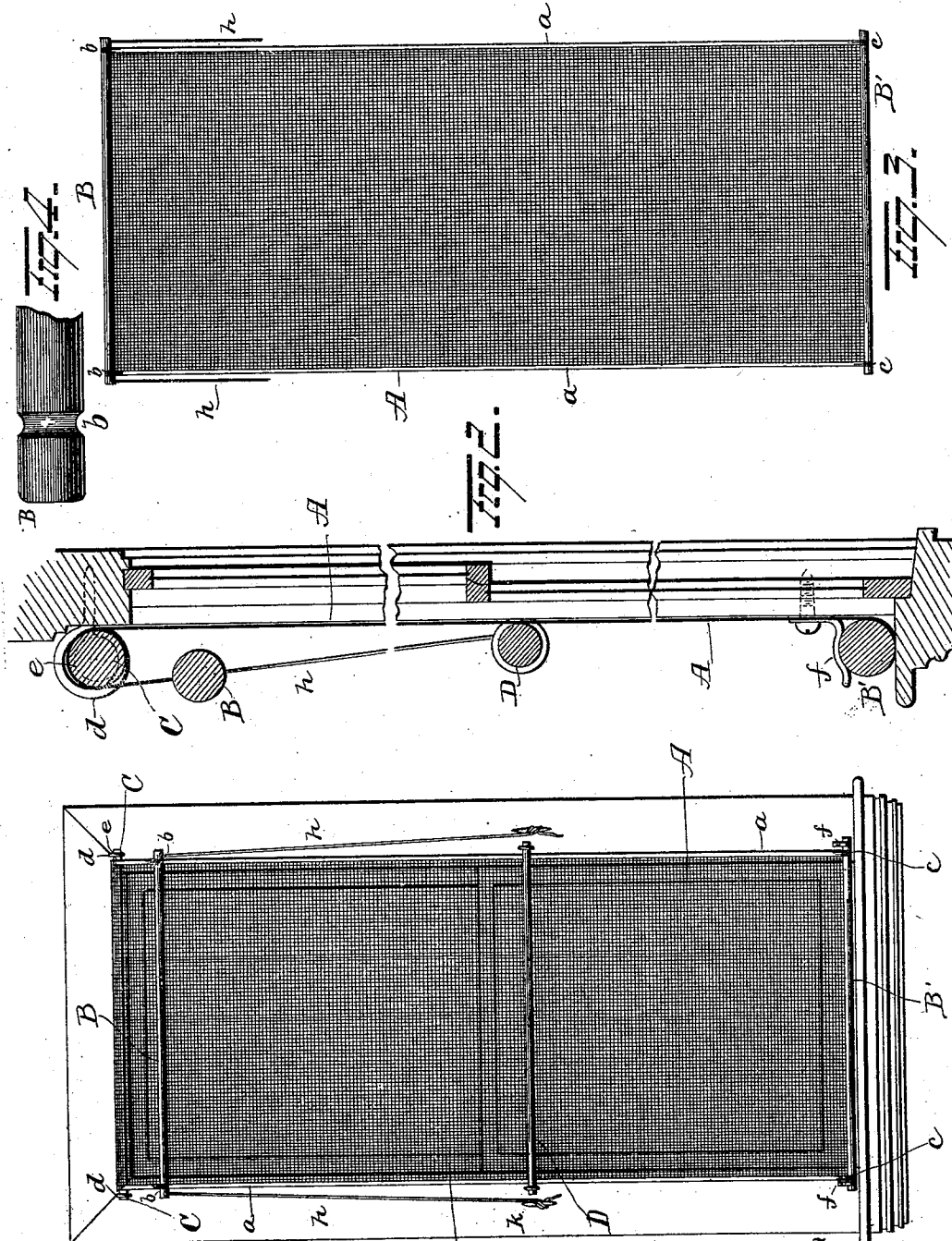


(No Model.)

T. B. DOOLITTLE.
WINDOW SCREEN.

No. 551,812.

Patented Dec. 24, 1895.



Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS B. DOOLITTLE, OF BRANFORD, CONNECTICUT.

WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 551,812, dated December 24, 1895.

Application filed April 4, 1895. Serial No. 544,433. (No model.)

To all whom it may concern:

Be it known that I, THOMAS B. DOOLITTLE, of Branford, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Window-Screens; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in window-screens, the object being to provide a simple and efficient screen for covering the entire space of a window, and one which can be readily and quickly removed.

A further object is to provide a screen wholly independent of the sashes, whereby either or both sashes may be raised or lowered for ventilation.

With these ends in view my invention consists in certain novel features of construction and combinations of parts, as will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of my improvement applied in its operative position. Fig. 2 is a view in vertical section. Fig. 3 is a view of the screen detached from its operative position, and Fig. 4 is an enlarged detail showing the construction of one end of rod B.

A represents a sheet or strip of flexible netting, to the upper end of which is secured a rod B, while the lower end thereof is provided with a similar rod B'. The outer or side edges of netting A are reinforced by means of tape or cord *a*, but if desired such tape or cord may be dispensed with and a netting having selvage edges employed. Rods B B' are each provided near their outer ends with annular grooves *b b* and *c c*, within which is secured the ends of tape or cord *a*, as is also the netting, whereby the latter is firmly held and prevented from gathering or slipping on the rods.

A rod C having an annular groove *e* at or near each end is removably supported above the window-opening by the screw-eyes or equivalent devices *d*, which latter are secured to the window frame or casing, as shown in the drawings. The screw-eyes *d* are so spaced that when the rod C is in its operative position the annular grooves located therein will

receive the supporting-face of each screw-eye, and hence accidental lateral movement of the rod is prevented. On each side of the window frame or casing and preferably near the bottom is secured a spring-clip *f*, which is adapted to hold rod B' in its operative position, and prevent the netting secured thereto from being forced in by the pressure of air on the netting.

Before placing rod B' under springs *f* the netting or fabric A is hung over rod C in such a manner that rod B will hang suspended on the side toward the room, after which rod B' is forced under the before-mentioned springs *f*. Rod C is located very near the window frame or casing with only sufficient space allowed for the netting to pass freely between the rod and the casing. It is intended that the weight of the rod B shall be chiefly sustained by the cords or tapes *a* which are attached to the annular grooves *b b* and *c c*, and hence it will be seen that the tapes *a* will have the effect of holding the netting close against the window frame or casing, thereby preventing the ingress of insects, &c.

The rods may be made wholly or in part of hollow tubes, so constructed as to telescope or slide, one within the other, for the purpose of adjustment to different windows.

A rod D may be placed midway between the top and bottom of the window, which will prevent a strong wind from blowing the netting inward, but in practice this has not been found actually necessary, and hence I do not limit myself to its use.

In lieu of the above or in connection therewith, if necessary, I might attach to the outer ends of rod B one end of the cords *h h*, the opposite ends of which latter being adapted to be fastened to belaying-pins *k k*, attached to the window frame or casing. The tension of cords *h h* holds the netting close to the casing and prevents the wind from blowing the netting inward. From the foregoing it will be seen that my invention is very simple in its construction, durable in use, and efficient in the performance of its functions.

It is evident that changes in the construction and relative arrangements of the several parts might be made without avoiding my invention, and hence I would have it understood that I do not restrict myself to the particular

construction and arrangement of parts shown and described; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a sheet or strip of flexible netting having a rod secured at each end thereof, of a stationary rod located at or near the upper end of the window or door frame to be screened, over which the sheet or strip is suspended, of catches for engaging the lower rod of the screen, the rod being detachable outwardly from these catches whereby the screen may be swung outward from the door or window frame, the entire distance from its point of suspension to its extreme lower end, substantially as set forth.

2. The combination with a rod secured to

the upper end of a window or door frame, of a vertically adjustable strip or sheet of flexible netting suspended over the rod, the ends of the strip having rigid bars or rods attached thereto, the upper bar being secured to the free depending upper end and serving as a counterweight and catches for detachably securing the lower bar to the frame and allowing the strip or sheet to be swung outwardly therefrom, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

THOMAS B. DOOLITTLE.

Witnesses:

GEO. WILLIS PIERCE,

JOSEPH A. GATELY.