

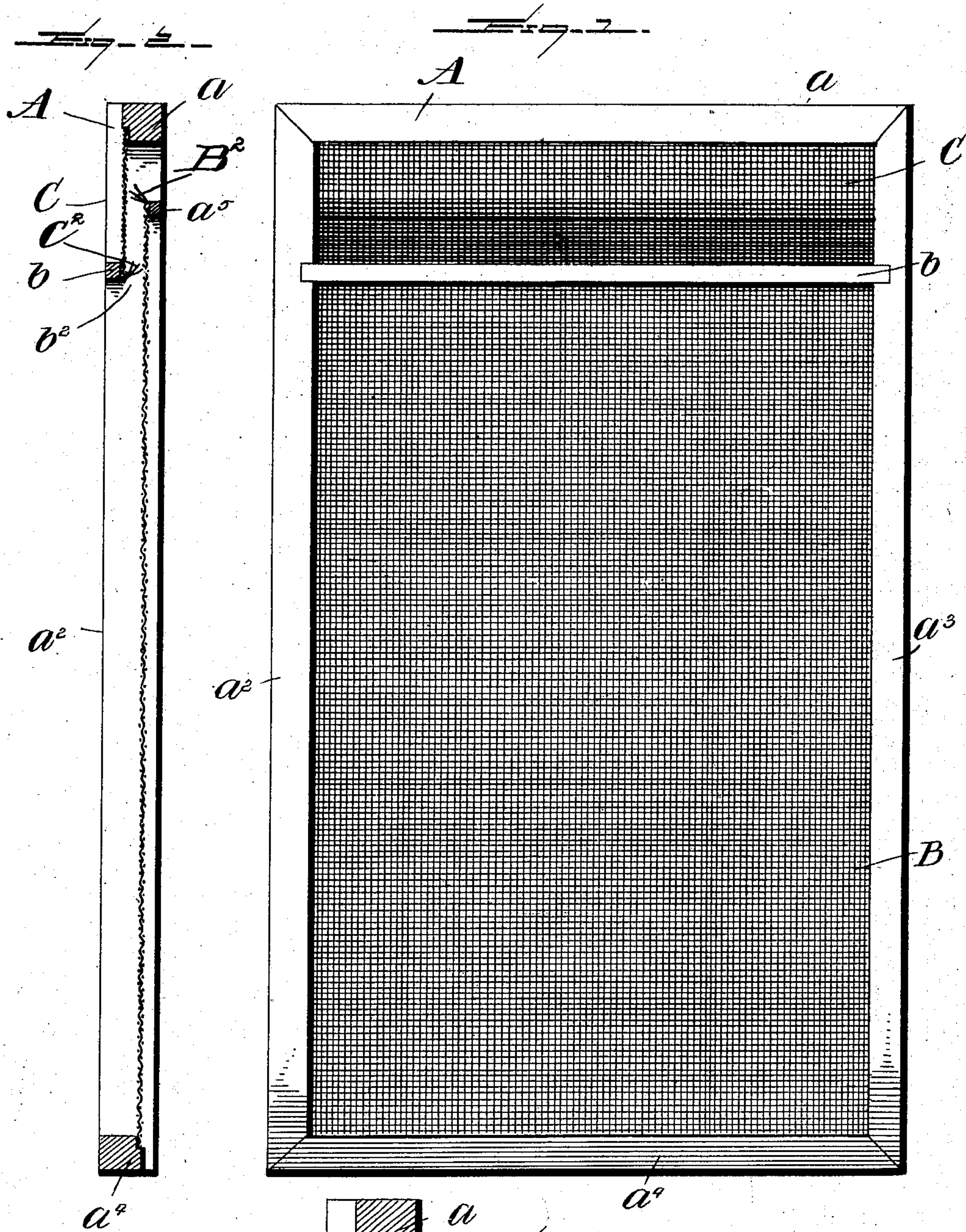
No. 751,375.

PATENTED FEB. 2, 1904.

U. S. BRIGGS.
SCREEN.

APPLICATION FILED SEPT. 13, 1902.

NO MODEL.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ULYSSES S. BRIGGS, OF PLAINFIELD, WISCONSIN.

SCREEN.

SPECIFICATION forming part of Letters Patent No. 751,375, dated February 2, 1904.

Application filed September 13, 1902. Serial No. 123,325. (No model.)

To all whom it may concern:

Be it known that I, ULYSSES S. BRIGGS, a citizen of the United States, residing at Plainfield, in the county of Waushara and State of Wisconsin, have invented certain new and useful Improvements in 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.

The object of the invention is in an expeditious and inexpensive manner to present a window or door screen which will securely prevent entrance of flies or other insects on the outside thereof, and yet at the same time permit escape of any thereof that may be moving on the inside of the door or window.

With this object in view my invention resides in an appropriately shaped and constituted main frame carrying netting or other desirable screening-surface, a supplemental frame disposed adjacent to, but somewhat removed from, one end of the main frame, and means for maintaining the two frames in operative relation.

Furthermore, the invention resides in a frame, a main body of screening material extending from the side pieces of said frame and from the lower piece thereof to a point somewhat removed from the upper piece of the frame and secured thereto by a transverse strip, a supplemental body of screening material disposed upon the upper piece of said frame and terminating at a point somewhat below and removed from the upper end of the main screening material, being secured to the frame at its lower edge by a transverse strip attached thereto, leaving an opening there, and guard-pieces carried, respectively, by both bodies of screening material, and, finally, the invention comprises various novel details of construction and arrangement of parts as will be more fully hereinafter described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like letters of reference indicate corresponding parts, I have illustrated one embodiment of

my invention, though it is to be understood that I may employ embodiments thereof other than that herein shown and yet be within the scope of my invention—that is to say,

Figure 1 is a view in front elevation of my invention. Fig. 2 is a vertical section of the same; and Fig. 3 is a view in section of the upper part of the screen, showing the arrangement of the two bodies of screening material.

In the employment of screen-doors and window-screens it often happens that flies and other insects secure entrance into the room to which the screens are applied, as when a door is opened, and that then these insects endeavor to escape therefrom and to this end fly to and crawl upon the screens in the doors and windows. There being no opening through which they can readily escape they are held prisoners. Now it has come to be known that insects, and particularly flies, when they light upon a screen almost invariably crawl from the spot where they light up toward the upper end of the screen and seldom down toward the lower end thereof. Moreover, should they happen to be on the outside of the screen their tendency of movement is in the same direction. Therefore I have found by observation that if an opening be left toward the upper end of the screen, up to and through which they naturally crawl, flies, &c., will escape therethrough; but by reason of their seeming disposition not to crawl downward upon the screen they will seldom crawl from the outside of the screen through such an opening, especially if certain obstacles lie in their path of movement, such as elevated protecting-pieces, &c.

In the drawings, A designates a suitable frame of any preferred size and style, constituted, preferably, of four side pieces $a^1 a^2 a^3 a^4$, suitably grooved, beaded, or otherwise arranged to hold a main body B, of screening material. In practice I prefer to extend this screening material from the side pieces a^2 and a^3 and from the lower piece a^4 up toward, but not entirely to, the upper piece a^1 and be secured to a cross-piece a^5 , disposed near this upper end piece a^1 . From this upper end piece a^1 , however, I prefer to extend a second body

C, of screening material, which extends, preferably, to and slightly beyond the upper edge of the screening material B and carries at its lower end a cross-piece b , extending from one side piece, a^2 , to the other, a^3 . To produce an opening b^2 , I prefer to have the edges of each of the screening materials somewhat removed from each other for, preferably, the entire width of the frame.

10 Projecting from the screening-bodies B C, I leave the raw and slightly-unraveled edges of the materials B^2 C^2 and bend the same upward, so that they approach and nearly bear upon the screening-bodies. These are held in rigid position by the transverse strips and 15 leave space enough for an insect to crawl through, but to prevent its passage with outstretched wings.

It will be seen that a pair of such screens as 20 I have described may be suitably mounted together, so as to be capable of extension and retraction to fit any-sized opening and still be within the scope and spirit of my invention.

Having thus described my invention, what

I claim, and desire to secure by Letters Patent, is— 25

In a screen, in combination with a frame, screening material secured on both sides thereof—on the reverse side extending from the bottom with a free edge nearly to the top and 30 on the obverse side extending from the top to a point, with a free edge, beyond the edge of the screening material on the reverse side—transverse strips, attached to the free ends of the screening material and secured to the frame and constructed to hold the free ends of the screen material in operative position and guard edges, constructed to prevent the ingress of insects, by bending toward each other the raw edges of the screening material, substantially as described. 40

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

ULYSSES S. BRIGGS.

Witnesses:

BLANCHE H. BRIGGS,
C. O. BOOTH.