

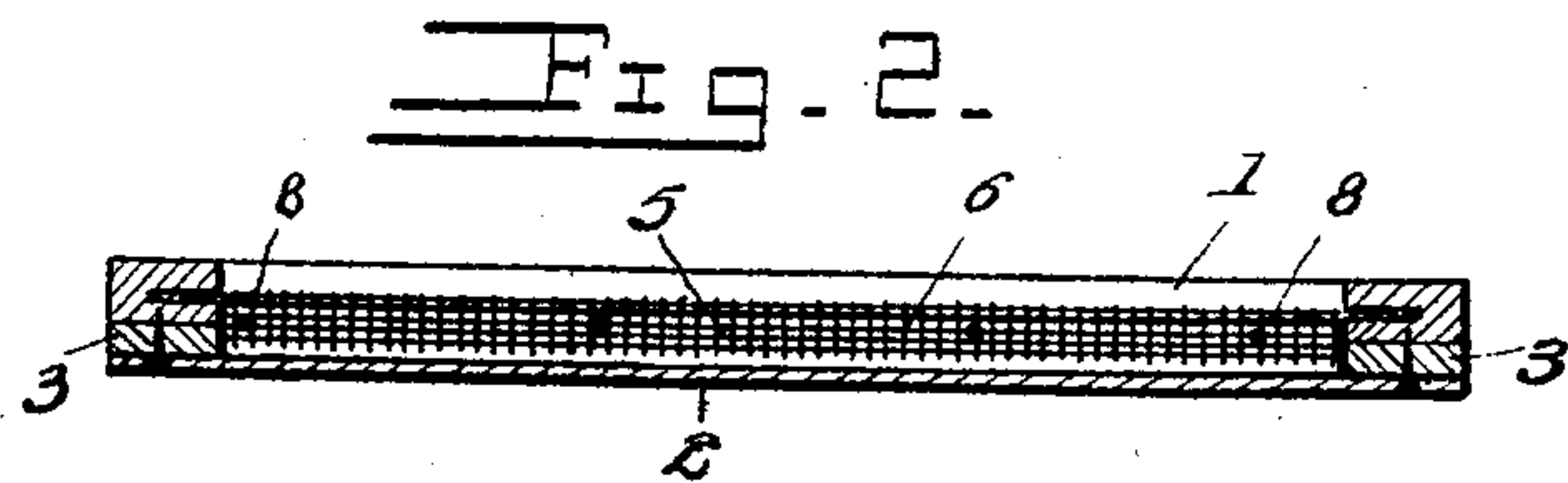
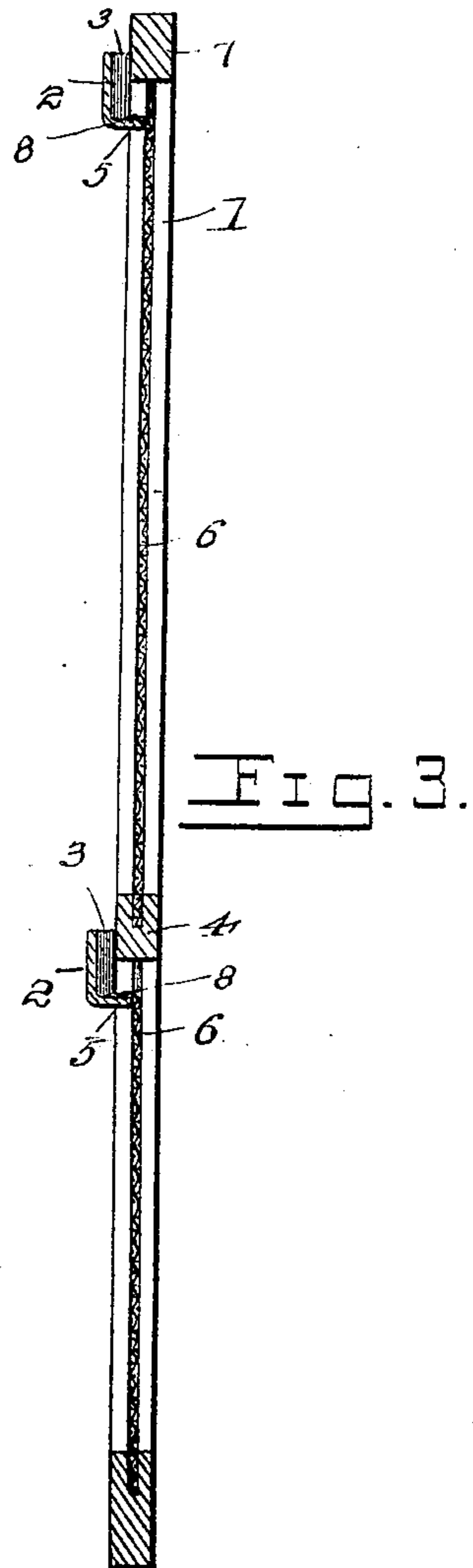
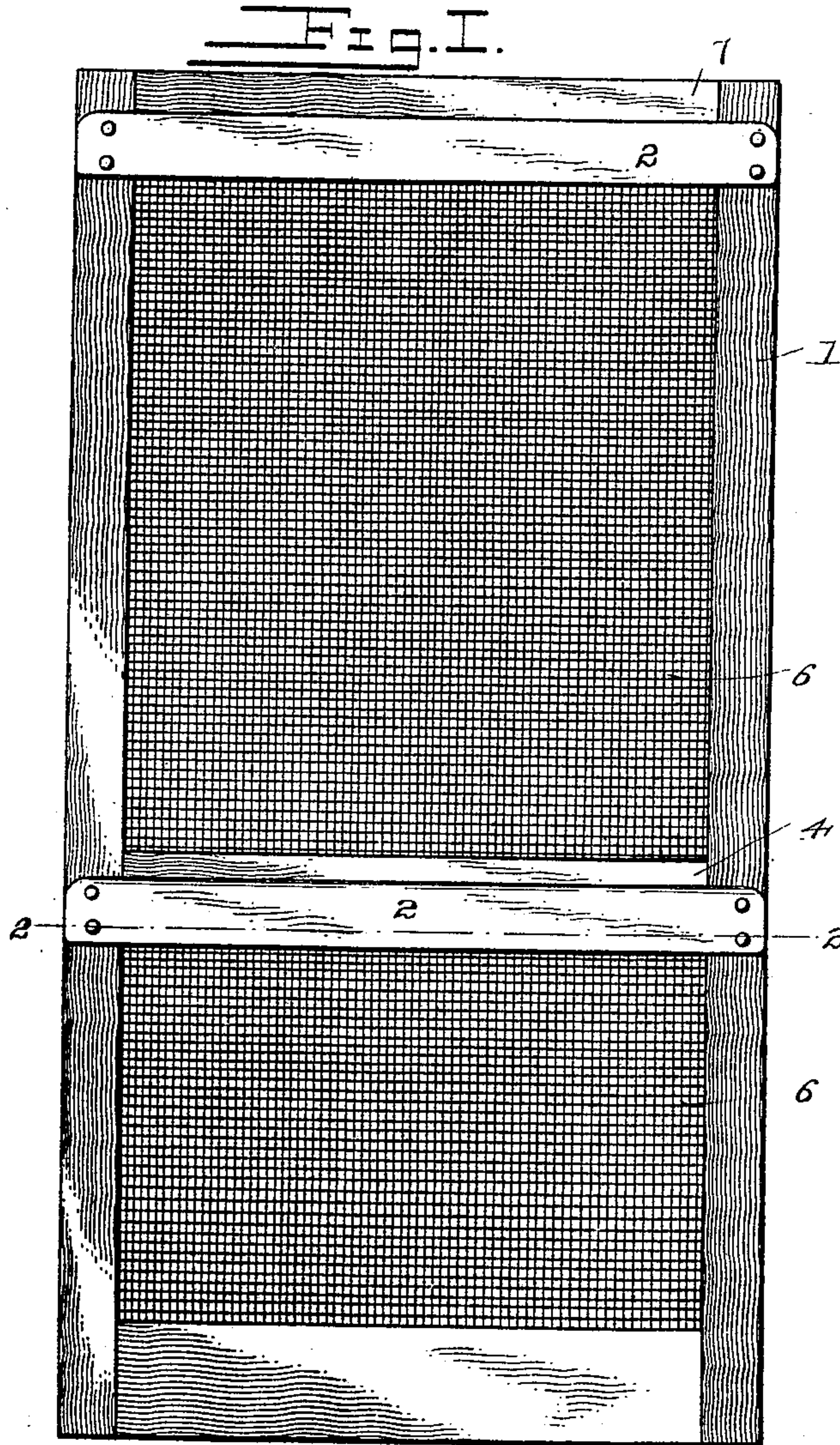
No. 635,928.

Patented Oct. 31, 1899.

A. GRAHAM.  
SCREEN.

(Application filed Aug. 9, 1899.)

(No Model.)



Witnesses  
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By His Attorneys.

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# UNITED STATES PATENT OFFICE.

AARON GRAHAM, OF CHRISTIANSBURG, VIRGINIA.

## SCREEN.

SPECIFICATION forming part of Letters Patent No. 635,928, dated October 31, 1899.

Application filed August 9, 1899. Serial No. 726,710. (No model.)

*To all whom it may concern:*

Be it known that I, AARON GRAHAM, a citizen of the United States, residing at Christiansburg, in the county of Montgomery and State of Virginia, have invented a new and useful Screen, of which the following is a specification.

This invention relates to screens for doors and windows, and is used for the exclusion of flies and other insects.

It is a well-known fact that flies will crawl upward upon a vertical surface, and in view of this fact the present invention has been designed to provide improved exits or escape-passages whereby the flies upon the inner side of the screen may escape to the outer side thereof and also be prevented from returning through the exits or escape-passages.

To these ends the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and the minor details of construction may be made within the scope of the appended claims without departing from the spirit or sacrificing any of the advantages of the present invention.

In the drawings, Figure 1 is an elevation of a screen-door having the present invention applied thereto. Fig. 2 is a longitudinal sectional view thereof. Fig. 3 is a transverse sectional view taken on the line 2 2 of Fig. 1.

Corresponding parts in the several figures of the drawings are designated by like characters of reference.

Referring to the accompanying drawings, it will be seen that the invention has been shown in connection with a screen-door 1, although it will be understood that it may be applied to a window-screen in the same manner and without any additions or changes.

In carrying out the invention a transverse bar 2 is secured to the outer side of the frame of the door and spaced in front thereof by means of the spacing blocks or heads 3, which are located at opposite ends of the bar and connected to the frame of the door by means of suitable fastenings. It is preferable to locate this transverse bar at the upper end of the door or window screen, and it is also

found useful to employ a second bar, which is located adjacent to the intermediate cross-bar 4 of a door-frame, as shown in the drawings. Extending inward from the lower side of the transverse bar 2 is a horizontal longitudinal flange 5, which fits snugly between the opposite side rails of the door-frame and engages flush against the outer face of the screen 6, which may be of any preferred foraminous material. It will be noted that the flange 5 provides a cross-sectionally L-shaped transverse bar.

By reference to Fig. 2 of the drawings it will be seen that the screen terminates short of the upper and intermediate cross-bars 7 and 4, respectively, and the upper edges of the screen are bent outwardly and upon the upper faces of the respective flanges 5 and are secured thereto by means of any suitable fastening devices 8. By reason of this arrangement of parts it will be seen that an opening is provided between the upper edge of the screen and the adjacent cross-bar of the frame, and the vertical portion of the transverse bar 2 being spaced or offset in front of the screen a passage is formed communicating from the inner to the outer side of the screen. The flies which may collect upon the inner side of the screen will crawl upward and upon reaching the upper edge of the screen will pass through the exit-opening and escape to the exterior of the screen. This opening is readily seen by the flies on the inner side of the screen by reason of the light shining through said opening or passage; but as the latter is closed upon the lower side thereof by the flange 5 said opening is comparatively dark from the outer side of the screen, and for this reason the flies will make no attempt to return through the exit-passage.

Although the present invention has been shown applied to a door having the screen connected to the inner edges of the frame and intermediate of the inner and outer sides thereof, it will be understood that the screen may be fitted to the inner side of the frame and the flange 5 extended to engage the outer side of the frame, in which event the flange would not extend between the opposite rails of the frame, but rest flush against the outer side thereof.



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

1. A fly-screen for doors and windows, having a transverse bar provided with opposite spacing heads or blocks secured to the frame of the screen and located adjacent to one of the cross-bars of the frame, and a longitudinal inwardly-projecting flange located at the lower edge of the transverse bar and fitting flush against the screen material, the upper edge of the latter terminating short of the adjacent cross-bar, and secured to the flange of the transverse bar, thereby providing a passage leading from the inner side to the outer side of the screen, and closed by the flange at the lower side of said passage, substantially as and for the purpose set forth.

2. A fly-screen for doors and windows, having a transverse bar provided with opposite spacing heads or blocks secured to the frame of the screen and located adjacent to one of the cross-bars of the frame, and a longitudinal inwardly-projecting flange located at the lower edge of the transverse bar, fitting snugly

between the inner edges of the opposite side rails of the frame, and engaging flush against the adjacent side of the screen material, the latter terminating short of the adjacent cross-bar, bent outwardly upon the upper face of the flange and secured thereto, substantially as and for the purpose set forth.

3. A fly-screen for windows and doors, having a transverse opening formed in the screen material, and a cross-sectionally L-shaped bar carried by the screen and extending transversely across the opening therein, the free edge of the horizontal portion of the bar being arranged contiguous to one edge of the opening in the screen material, and spacing the vertical portion of the bar outward in front of the opening, substantially as shown and described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

AARON GRAHAM.

Witnesses:

CHAS. I. WADE,

R. M. CHARLTON.