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B. L. INGRAM ET AL

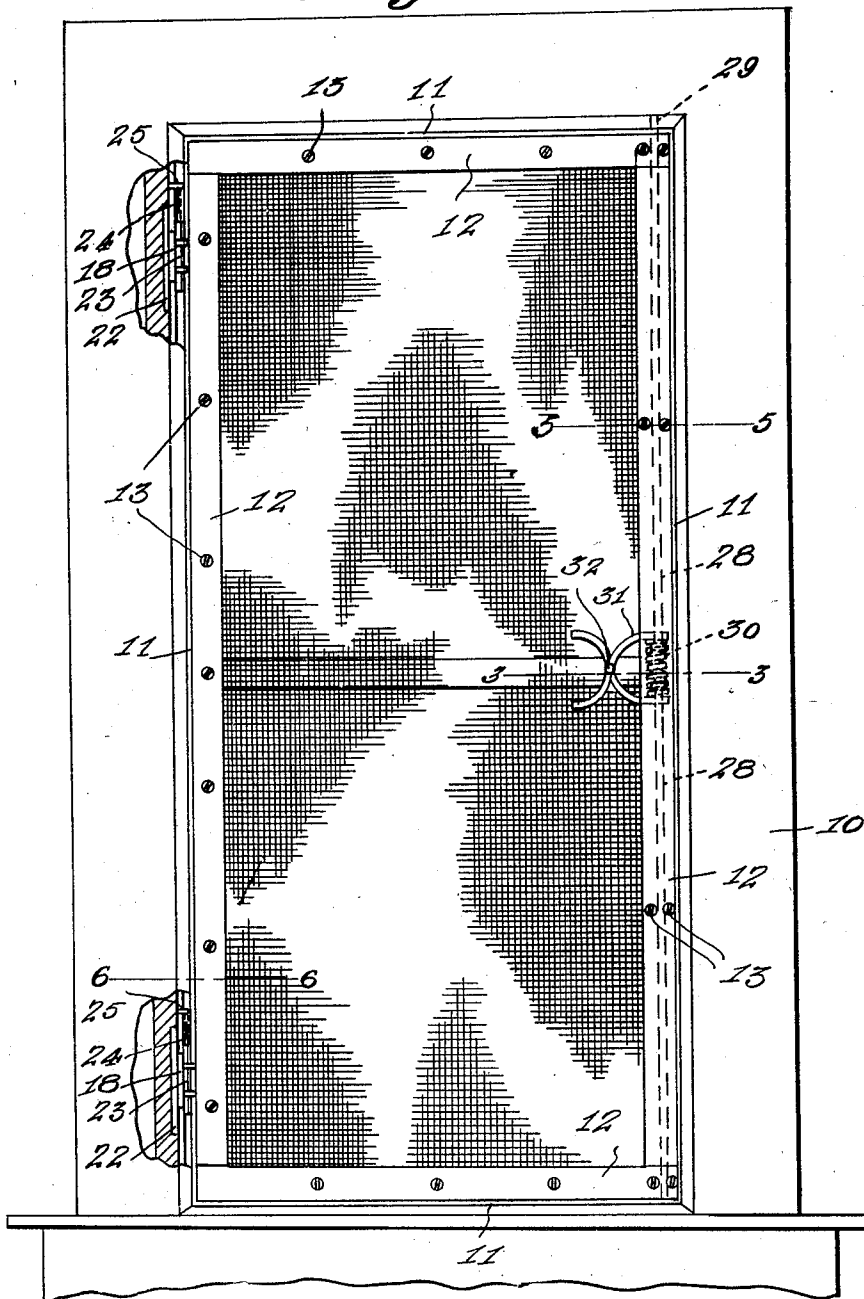
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DOOR AND WINDOW SCREEN

Filed April 26, 1929

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Fig. 1.



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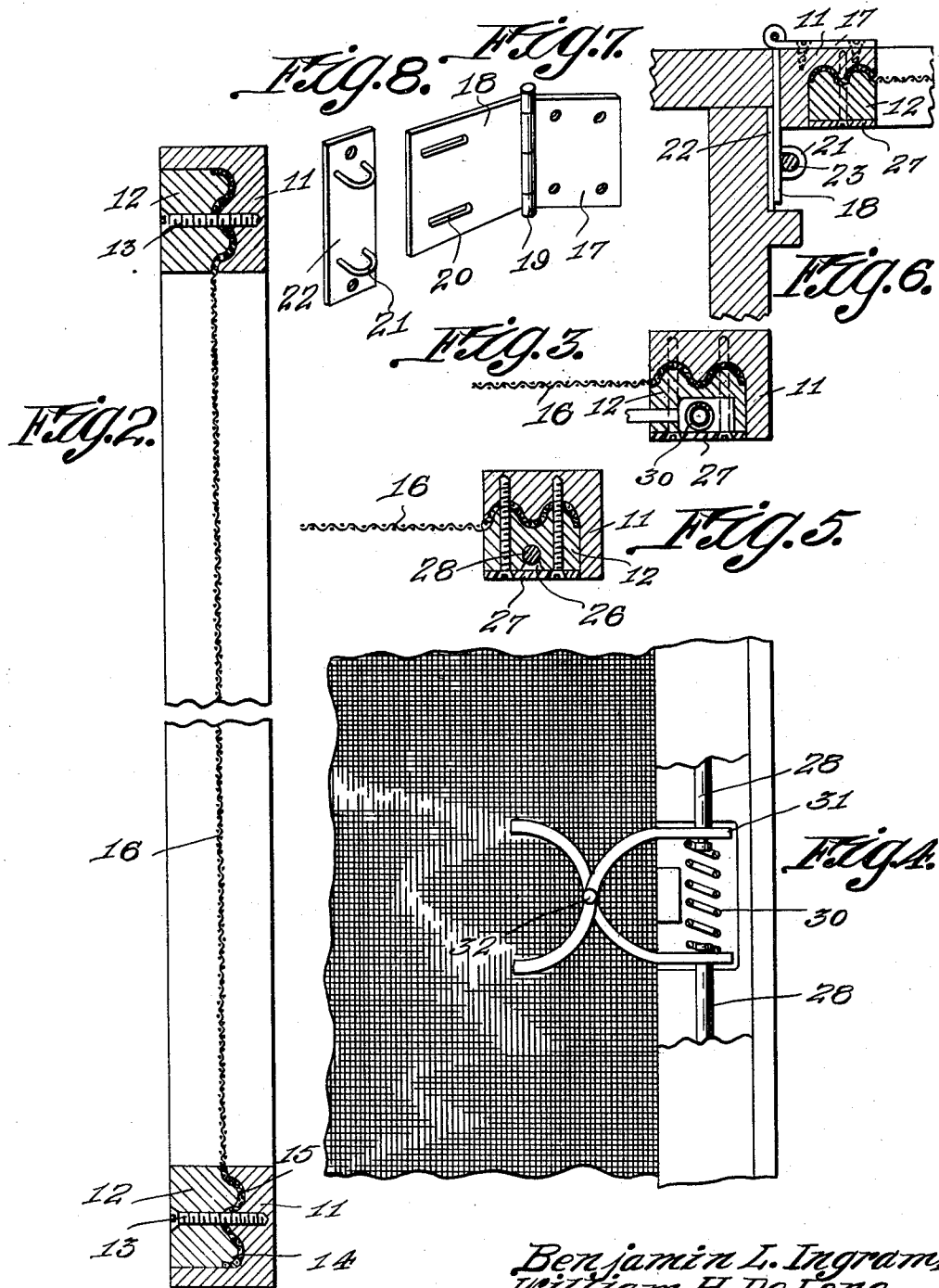
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DOOR AND WINDOW SCREEN

Application filed April 26, 1929. Serial No. 358,399.

This invention relates to screen construction, an object being to provide a screen frame whose structure is such as to securely clamp the screen fabric to the frame and to stretch and maintain the fabric in properly taut condition, the construction being adapted for either door or window screens.

Another object of the invention is the provision of novel means for hingedly mounting the screen so that it may be removed and replaced from the inside of a building, together with means for locking the screen in closed position, whereby the screen may be swung laterally when it is desired to open a window or door, or may be securely held in closed position.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings:—

Figure 1 is an elevation illustrating the invention.

Figure 2 is an enlarged sectional view through the screen.

Figure 3 is an enlarged fragmentary sectional view on the line 3—3 of Figure 1.

Figure 4 is an enlarged fragmentary elevation partly broken away and showing the means for actuating the screen lock.

Figure 5 is an enlarged fragmentary sectional view on the line 5—5 of Figure 1.

Figure 6 is an enlarged fragmentary section on the line 6—6 of Figure 1.

Figure 7 is a detail perspective view of one of the hinges.

Figure 8 is a like view of the attaching plate for the hinge.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates a window frame which is shown for the purpose of illustrating the invention. It will be apparent however that the screen may be used as a door screen and it is not the purpose of the present application to limit the invention in this particular.

The screen frame is of novel construction

and comprises a section 11 which is substantially L shaped in cross section as shown in Figure 2 of the drawings. The frame also includes a section 12 which is adapted to be secured within the L-shaped section 11 as by screws or fastening devices 13. The sections 11 and 12 may be made of either metal or wood.

The meeting faces of the sections 11 and 12 may be corrugated or provided with complementary ribs and depressions 14 and 15 respectively, and provide clamping faces between which is clamped the edges of the screen fabric 16. The fabric is thus securely attached to the frame, and in addition, the securing means acts to properly stretch and hold the fabric taut.

In order to hang the screen, the invention provides hinges of novel construction. These hinges include plates 17 and 18 which are pivotally connected as shown at 19. The plates 17 are adapted to be secured to the screen frame, while the plates 18 are provided with spaced elongated slots 20 which receive staples 21 carried by an attaching plate 22. This last mentioned plate is secured within the window frame as shown in Figure 6 of the drawings with the staples extending through the slots 20 of the hinge plate 18. A retaining pin 23 is then passed through the staples so that the hinge plate is securely attached. The pins 23 may be attached to the window frame by means of chains 24 and pins 25.

The side of the frame remote from the hinges is longitudinally grooved as shown at 26 and this groove is closed by a removably attached plate 27. Slidable within the groove 26 are aligned rods 28 whose inner ends are spaced apart as shown in Figure 4 of the drawings and whose outer ends extend beyond the ends of the frame and are removably received within suitable sockets 29 provided in the window frame. The inner ends of the rods 28 are yieldingly forced apart by means of a spring 30 and in order to retract the rods so as to release the frame, these inner ends are engaged by the ends of operating levers 31. These levers are preferably shaped as shown in Figure 4 of the

drawings and are pivotally connected as shown at 32 so that by pressing the outer ends of the levers inward or toward one another, the rods 28 may be retracted and the
5 screen frame released from the window frame.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is here-
10 in reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention what is claimed is:—

- 15 A lock for a hingedly mounted member comprising aligned longitudinally disposed locking rods adapted to be mounted for longitudinally sliding movement in said member and having their inner ends spaced apart
20 and their outer ends adapted for engagement with keepers, a pair of pivotally connected crossed arms having one of their ends operatively secured to the inner ends of the rods, with the inner ends of the rods ex-
25 tending through said arms, whereby the rods may be moved relatively outward, and a spring positioned between and having its opposite ends engaged over the ends of the rods to yieldingly force the latter outward.
30 In testimony whereof we affix our signatures.

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