March 22, 1932. S. M. KENERSON 1,850,175

DISPLAY MOUNTING

Filed Dec. 3, 1930

Fig. 1

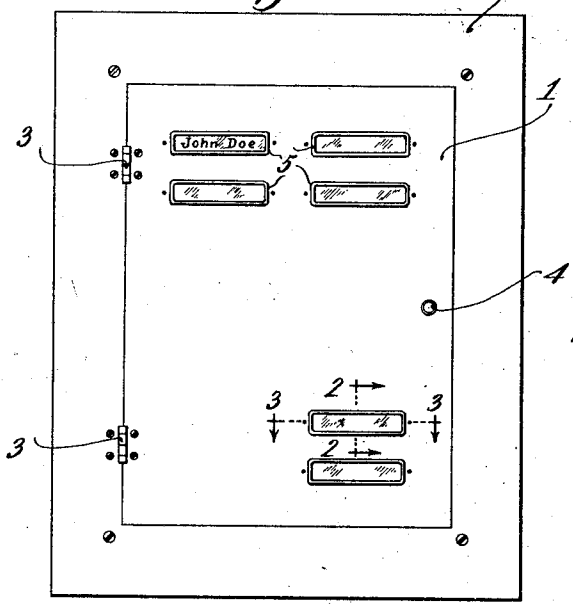


Fig. 2

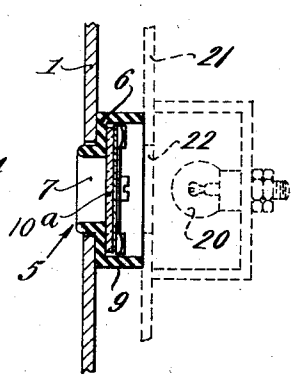


Fig. 3

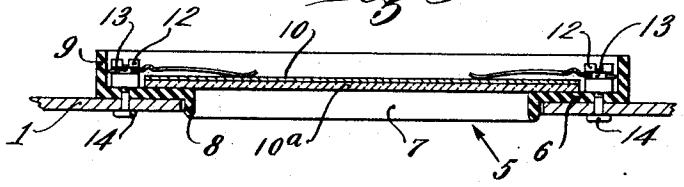


Fig. 4

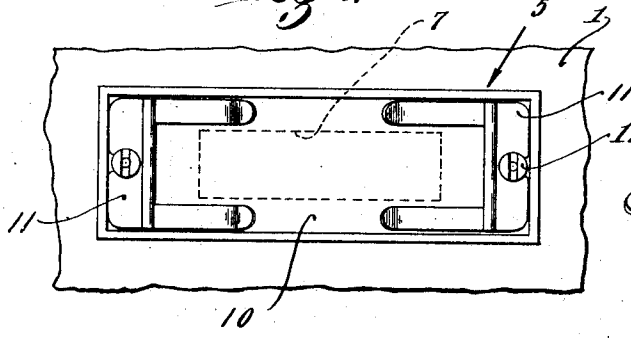
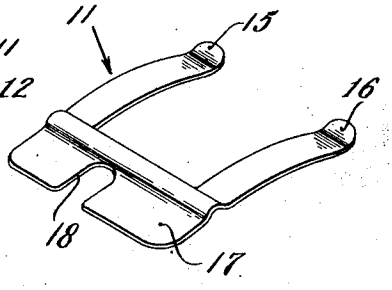


Fig. 5



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UNITED STATES PATENT OFFICE

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DISPLAY MOUNTING

Application filed December 3, 1930. Serial No. 499,731.

This invention relates to display mountings, and more particularly to the type used in conjunction with annunciators and/or other signalling systems such as are used in hospitals, offices and the like.

It is the object of this invention to provide an improved mounting unit or frame adapted to receive a display card or the like, which device is of simple construction, economical to manufacture and easy to assemble, which will permit a display card to be easily and quickly inserted or removed, and which is generally superior to those types now or heretofore used.

Further objects and advantages will be apparent from consideration of the accompanying drawings which exemplify one embodiment of this invention chosen for the purpose of illustration.

In the drawings:

Fig. 1 is a front view of an electric annunciator board;

Fig. 2 is a section thereof taken on the line 2—2 of Fig. 1;

Fig. 3 is a section taken on the line 3—3 of Fig. 1;

Fig. 4 is a rear view of the mounting unit; and

Fig. 5 is a perspective view of the clasp used in conjunction with the mounting unit for securing a display card or the like in the frame.

The annunciator shown in Fig. 1 comprises a panel 1 which is secured to the support 2 by any conventional means, here shown as hinges 3 and a latch mechanism associated with the knob 4. The panel contains a plurality of elongated openings for the reception of the flanges of the mounting units which are designated generally by the numeral 5.

Each of the units comprises a rectangular frame 6 having a centrally disposed elongated slot or opening 7 about which is circumposed a flange 8 integral with the body of the frame and an oppositely directed marginal flange 9 projecting from the outer edges of the body of the frame. Preferably the frame is of bakelite or hard rubber, but may be made of metal or other rigid material.

A display card 10, preferably of translucent material, is secured in the frame by means of the resilient clasps 11, each of which engages a stud 12 secured to the frame at the ends thereof intermediate the flanges 8 and 9. Preferably a transparent glass plate or the like 10^a is interposed between the display card and the body of the frame 6, which plate serves as a protection to the card as well as enhancing the appearance of the unit. In place of the card and the transparent plate, an etched glass plate or piece of other translucent material having thereon the name or characters to be displayed could be used.

In this particular embodiment the studs 12, which are engaged by the clasps 11, comprise nuts each having a circumferential groove 13. These nuts are secured to the frame 6 by means of bolts 14 which project through the frame from the face of the panel, and further serve to secure the unit to the panel 1.

The clasp 11 (shown in Fig. 5) comprises a piece of sheet metal having similar arcuate resilient fingers 15 and 16 projecting from its body portion 17, and a recess 18 on the edge of the body portion opposite to the fingers 15 and 16. The thickness of the body portion adjacent the recess 18 and the width of the recess is such as to permit that portion to be inserted in the groove 13 of the studs or nuts 12. It is preferable to provide the body portion with a swell or rib intermediate the recess and the edge from which the fingers project, the swell being substantially at right angles to the fingers 15 and 16. The swell not only provides a reinforcement for the clasps, but also increases the resiliency of the fingers.

In assembling this unit the flange 8 of the frame 6 is first inserted in an opening in the panel 1, and the same is firmly secured thereto by the bolts 14 which pass through registering apertures in the panel and body portion 6 of the frame and engage the nuts or studs 13. The transparent plate 10^a and the display card 10 are then placed in the frame as shown in Figs. 2 and 3, and are firmly secured therein by the clasps 11 which are snapped into engagement with grooved studs or nuts 13. Due to the resiliency of the fingers 15 and 16 the clasps will be held in firm engage-

ment with nuts 13, and the plate and card will be securely held in the frame 6.

In using these units in conjunction with annunciators and/or signalling systems, an electric lamp 20 is disposed behind each unit, and a shield 21 with an opening 22 is interposed between the lamp and the unit, as shown in Fig. 2. When the lamp is lighted the display card, being of translucent material, will be illuminated and stand out in marked contrast to other cards not illuminated.

In this embodiment of the invention it should be noted that fingers 15 and 16 of the clasps lie adjacent to the marginal flange 9 (as shown in Figs. 2 and 4) and thus do not obstruct the passage of light from the lamp or in any way impair the illumination of the display card.

While I have shown and described one embodiment of this invention, I wish it to be understood that various changes and modifications in shape, proportion and arrangement of parts, as well as the substitution of equivalent elements for those herein shown and described may be made without departing from the spirit and scope of this invention as set forth in the appended claims.

I claim:

1. A display mounting comprising a panel having an opening therein, and a frame secured to the back of said panel, said frame having an opening therein similar to and registering with the opening in said panel, a flange circumjacent to said opening and projecting into the opening in said panel, a marginal flange projecting substantially at right angles to said frame and oppositely directed relative to the first-mentioned flange, and means detachably associated with said frame and cooperating with said marginal flange for securing a display card in said frame.

2. A display mounting comprising a frame having an opening therein, a stud projecting from said frame, and a readily removable clasp, said clasp comprising a piece of resilient material having a body portion detachably secured to said stud, and fingers for securing a display card placed in said frame, said fingers adapted to engage said display card at portions thereof on opposite sides of said opening so as to permit an unobstructed passage of light to the portion of said display card coinciding with said opening.

3. In an illuminated display device of the class described, a display mounting comprising a frame having an opening therein, and a clasp for securing a display card in said frame, said clasp comprising a piece of resilient material having a body portion detachably secured to said frame, and fingers adapted to engage said display card at portions thereof on opposite sides of said opening whereby an unobstructed passage of light to the portion of said display card coinciding with said opening is permitted.

4. In an illuminated display device of the class described, a display mounting comprising a panel having an opening therein, and a frame secured to the back of the panel, said frame having an opening similar to and registering with the opening in said panel, and means for securing a display card in said frame, said means comprising a readily removable clasp detachably secured to said frame and having resilient portions adapted to engage said display card at portions thereof contiguous to the frame, whereby an unobstructed passage of light to the portions of said display card coinciding with said opening in the frame is permitted.

5. In an illuminated display of the class described, a display mounting comprising a panel having an opening therein, and a frame secured to the back of the panel, said frame having an opening similar to and registering with the opening in said panel, a flange circumjacent to said opening and projecting into the opening in said panel, a marginal flange projecting substantially at right angles to said frame and oppositely directed relative to the first-mentioned flange, and means for securing a display card in said frame, said means comprising a clasp having a body portion detachably secured to said frame and resilient fingers adapted to engage said display card at portions thereof adjacent said marginal flange, whereby an unobstructed passage of light to portions of said display card coinciding with said opening in the frame is permitted.

6. A device of the class described comprising a frame having a stud projecting therefrom, and a readily removable clasp, said clasp comprising a piece of sheet material having resilient fingers adapted to engage a display card placed in said frame and secure the same therein, and a body portion embracing said stud and detachably secured thereto by frictional engagement therewith.

7. A device of the class described comprising a frame having a stud projecting therefrom, and a readily removable U-shaped clasp having resilient fingers adapted yieldingly to engage a display card placed in said frame and secure the same therein, and a portion intermediate said fingers embracing said stud and secured thereto by frictional engagement therewith.

8. A display mounting comprising a panel having an opening therein, a frame disposed on the back of said panel and having an opening registering with the opening in said panel, connecting means securing said frame to said panel, and a readily removable clasp for securing a display card in said frame, said clasp being detachably secured to said connecting means by frictional engagement therewith.

9. A display mounting comprising a panel having an opening therein, a frame disposed

on the back of said panel and having an opening registering with the opening in said panel, connecting means securing said frame to said panel, and a removable clasp comprising a piece of sheet material having resilient fingers adapted to engage a display card placed in said frame and secure the same therein, and a body portion detachably secured to said connecting means.

10. A display mounting comprising a panel having an opening therein, a frame secured to the back of said panel, said frame having an opening registering with the opening in said panel, a flange projecting from and substantially at right angles to said frame, and a bifurcated clasp member detachably associated with said frame for securing a display card therein, said clasp member engaging said frame intermediate the opening therein and said flange.

Signed by me at Springfield, Mass., this first day of December, 1930.

STANLEY M. KENERSON.