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H. S. BALDWIN

2,352,243

TRANSPARENCY MOUNT

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Fig. 2

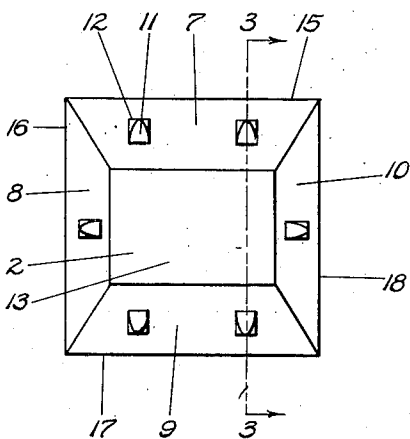


Fig. 1

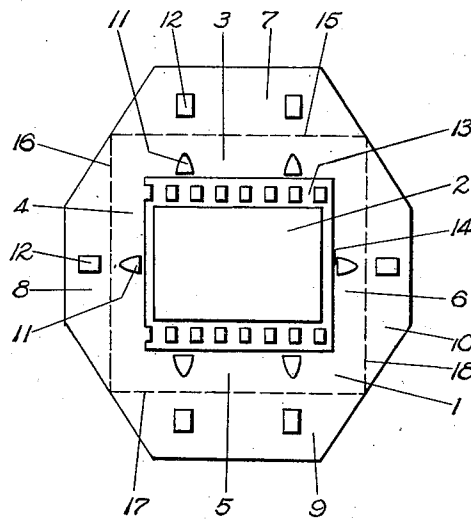
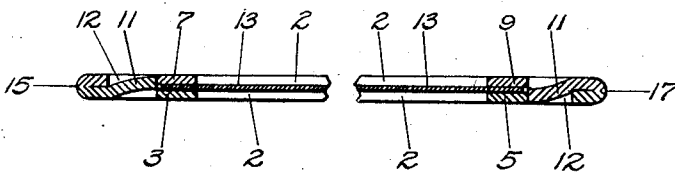


Fig. 3



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## TRANSPARENCY MOUNT

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5 Claims. (Cl. 88-26)

My invention relates to frame mountings for transparencies such as are used in projecting machines.

One object of my invention is to improve generally the frame mountings known to the prior art, obtaining a much more simplified structure that can be more easily and cheaply manufactured, which can be more easily assembled for use, and at the same time has definite structural and functional advantages.

Another object of my invention is to provide in a mounting made from a single piece of material means for positioning and keeping in position the transparency, while maintaining the thickness of the mounting to an absolute minimum.

Another object of my invention is to provide a mounting accomplishing all of the above objects, with a relatively small quantity of material.

Another object of my invention is to provide a mounting made from a single piece of material with means for positioning and keeping in position the transparency, said mounting being manufactured by a minimum of steps.

Another object of my invention is to provide in a mounting composed of a single piece of material a greater surface contact between the flaps of the mounting and the transparency, thus insuring to a much greater extent that the transparency will not curve, ripple or buckle while in the mounting.

Another object of my invention is to provide a frame mounting made from a single piece of material with sides and flaps extending from said sides, the sides having upstruck portions or embossings thereon and the flaps having punched areas therein so that when said flaps are folded over onto said sides, the upstruck portions or embossings protrude into said punched areas.

Other objects and features of my invention will appear as the invention is hereinafter disclosed.

Although my invention may be constructed from any suitable material, the preferred form is made from metal and will hereafter be referred to as being made from metal.

To better understand my invention, several figures are shown in the appended drawing.

Figure 1 is a front elevation showing a single piece of metal from which my invention is constructed with the struck-up portions on the sides of the frame and the punched areas in the flaps, and with the transparency in correct position with respect to the mounting.

Figure 2 is a front elevation of my invention in its completed state, loaded with a transparency ready for use in a projector.

Figure 3 is an enlarged sectional view of my invention taken along the line 3-3 of Figure 2 showing the folding over relation of the sides of the frame and the flaps, and the projecting of the struck-up portions into the punched areas. The portion of Figure 3 on the left shows my invention with the struck-up portion being part of the frame and the punched area being in the flap; the other part of Figure 3 shows the struck-up portion being in the flap and the punched area in the frame.

Figure 1 shows the front wall of a single piece of metal 1 from which my mounting is constructed. In the approximate center of said piece of metal 1 there is an aperture 2. This aperture may be changed in size and shape according to that of the transparency desired to be viewed. Said single sheet of metal 1 may be further itemized by considering it as being composed of a solid central frame having four sides 3, 4, 5 and 6, said sides surrounding said aperture 2. From each of these four sides extends a flap 7, 8, 9 and 10 respectively. Said flaps are of such size and shape that when they are folded along the imaginary lines 15, 16, 17 and 18 respectively, and made to lie in a plane parallel to the plane of the sides 3, 4, 5 and 6, respectively, the front walls of each of said four sides will be covered with exact nicety by the flaps 7, 8, 9 and 10 respectively, thus producing a mounting of two thicknesses and two thicknesses only at every point. From the front walls of the sides there projects a plurality of struck-up portions or embossings 11, hereinafter referred to as struck-up portions. Said struck-up portions may be made in any desired way, but in the preferred form of my invention they are made by an elevation of the front walls of said sides 3, 4, 5 and 6 by an application of force to the rear walls of said sides, as by a suitable die. The number of said struck-up portions 11 on each side may be varied, the preferred number being two on each of said sides 3 and 5, and one on each of said sides 4 and 6. The location of said struck-up portions 11 on each side may also be varied, but they must be so located that between said struck-up portions 11 and said aperture 2 there lies a sufficient portion of said sides to provide a suitable seat for a transparency 13.

From each of the flaps 7, 8, 9 and 10 there will be punched an area or areas of metal 12, the number of areas punched from each flap being equal exactly to the number of struck-up portions on the side 3, 4, 5 and 6 of which that flap is an extension. Said punched areas 12 are in such a

position and are preferably of such a size that when the flaps are folded over upon their adjacent sides, as above described, said punched areas 12 will allow said corresponding struck-up portions 11 to protrude therein with exact nicety. Preferably, said struck-up portions 11 shall not be of a height sufficient to project above the back wall of the flaps 7, 8, 9 and 10 when the flaps are folded over as described above.

Thus the process of manufacture of my invention is as simple as possible. Having constructed the mounting, the loading thereof with a transparency is equally simple. The transparency 13 is preferably rectangular in shape and of such size that it fits neatly within the area formed by said struck-up portions 11, leaving a slight space 14 between the edges of said transparency 13 and the struck-up portions 11, said space being sufficient only to prevent a curving, rippling or buckling of said transparency 13 due to a change in temperature of the parts of the loaded mounting. Said transparency is placed within the area formed by said struck-up portions 11. Each of the flaps 7, 8, 9 and 10 is then bent along its respective line 15, 16, 17 or 18 toward the front wall of the respective sides 3, 4, 5 and 6, in such direction that the transparency is pressed between the front walls of said flaps and the front walls of said sides and said struck-up portions 11 project into said punched areas 12, as shown in Figure 2 and on an enlarged scale in Figure 3. As can be easily seen, said transparency 13 is securely kept in the desired position by the confining nature of said sides, flaps and struck-up portions.

Although I have set forth the preferred form of my invention only, it should be understood that my invention may be modified in many ways without departing from the spirit thereof. One such modification would be placing said struck-up portions on the flaps and having said punched areas in the sides of the frame as shown in the right part of Figure 3. Another modification would be a variation in the number and positioning of the struck-up portions and punched areas. A still further modification would be a change in the number of sides and flaps of my mounting. All such modifications are intended to be covered by the following claims.

Having thus described my invention what I claim and desire to be secured by Letters Patent of the United States is:

1. A mounting for a transparency made from a single piece of material having an aperture in the approximate center thereof, a solid central frame composed of a plurality of sides, a plurality of flaps extending from said sides foldable over onto their appendant sides so that when folded over there is a pair of parallel contacting members along the sides of said aperture, at least one struck-up portion projecting from one of each pair of said contacting members, the other mem-

ber of each pair having a number of punched areas to allow said struck-up portions to project therein.

2. A mounting for a transparency made from a single piece of material having an aperture in the approximate center thereof, a solid central frame composed of a plurality of sides surrounding said aperture, a plurality of struck-up portions projecting from said sides forming a seat for said transparency and a plurality of flaps extending from said sides and having a plurality of punched areas therein to allow said struck-up portions to project therein, said flaps being foldable over onto their appendant sides to form a pair of parallel contacting members along the sides of said aperture.

3. A mounting for a transparency made from a single piece of material having an aperture in the approximate center thereof, a solid central frame composed of a plurality of sides surrounding said aperture, said sides having a plurality of punched areas therein, a plurality of flaps extending from said sides, said flaps being adapted to fold over onto their appendant sides to form a pair of parallel contacting members along the sides of said aperture, and a plurality of struck-up portions adaptable to project into said punched areas projecting from said flaps.

4. A mounting for a transparency made from a single piece of material having an aperture in the approximate center thereof, a solid central frame composed of four sides surrounding said aperture, a plurality of struck-up portions projecting from said sides forming a seat for said transparency, and a plurality of flaps extending from said sides and having a plurality of punched areas therein to allow the said struck-up portion to project therein, said flaps being adapted to fold over onto their appendant sides to form a pair of parallel contacting members along the sides of said aperture.

5. A mounting for a transparency made from a single piece of metal having an aperture in the approximate center thereof, a solid central frame composed of a top side, a bottom side and two end sides surrounding said aperture, said top side and said bottom side each having two struck-up portions projecting therefrom, and each of said end sides each having one struck-up portion projecting therefrom, said struck-up portions forming a seat for said transparency, and a flap extending from each of said four sides, each flap having a number of punched areas therein equal to the number of struck-up portions on the corresponding side, to allow the said struck-up portions to project therein and each flap being adapted to fold over onto its appendant side to form a pair of parallel contacting members along each side of said aperture.

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