March 21, 1933. W. J. SIMANEK 1,901,991

FRAME

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FIG. 1

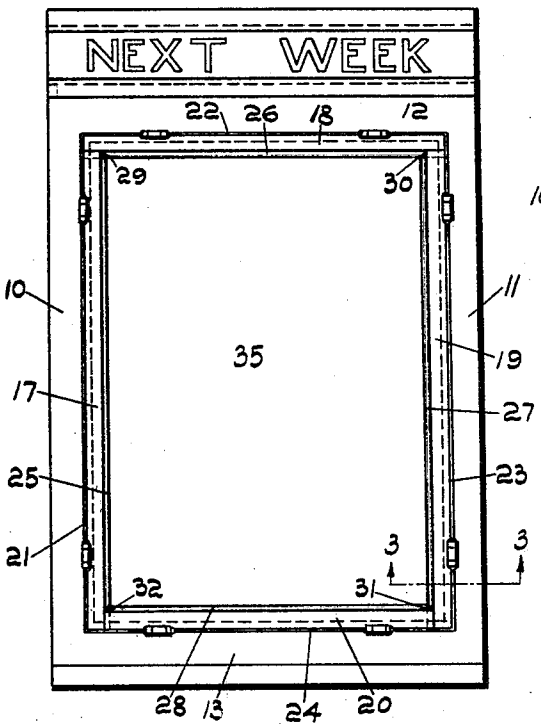


FIG. 2

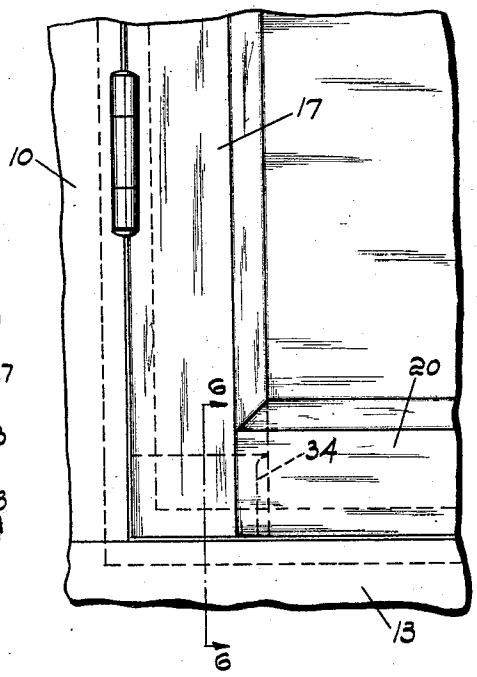
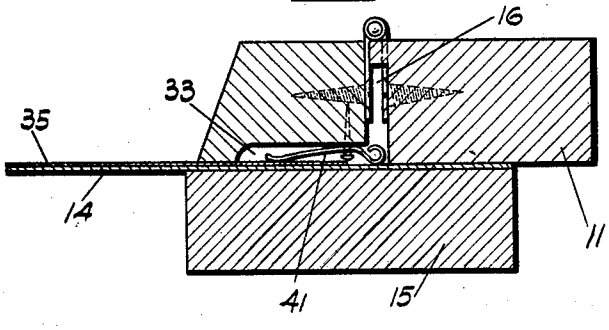


FIG. 3



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FRAME

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FIG. -4

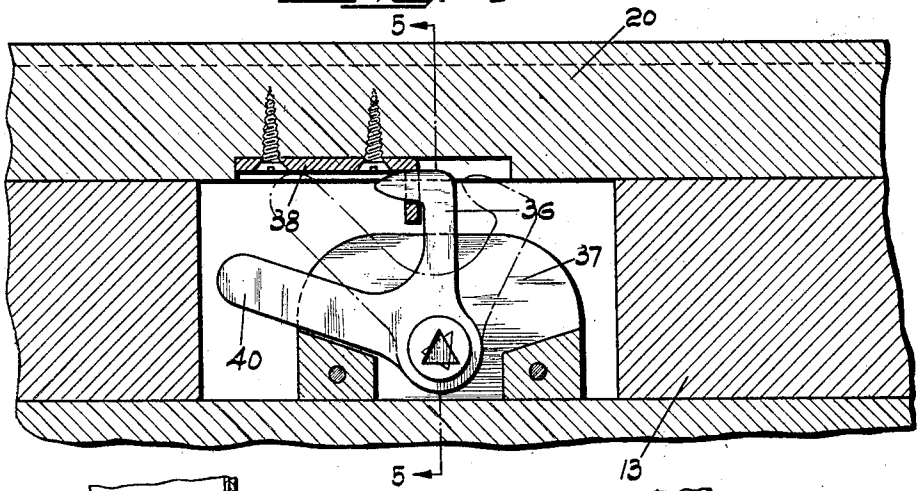


FIG. -5

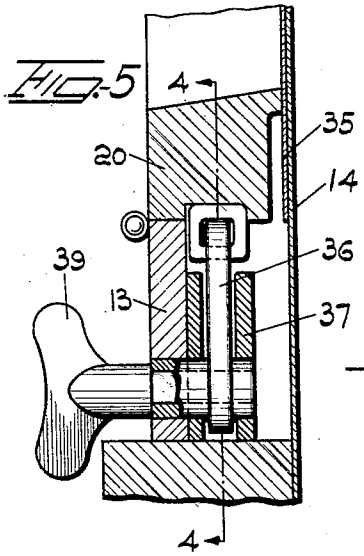


FIG. -7

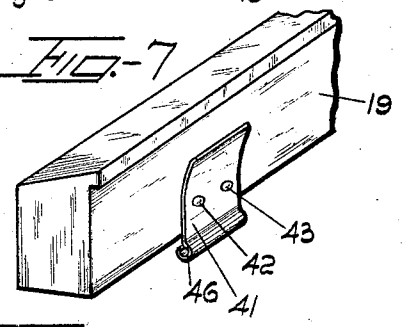
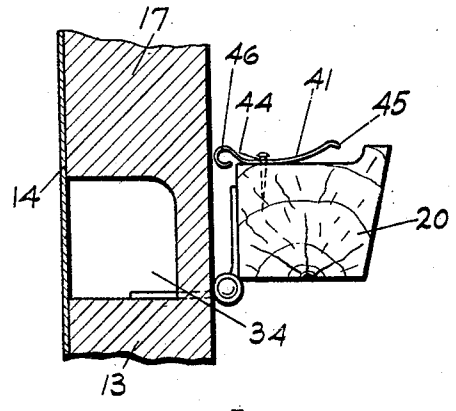


FIG. -6



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UNITED STATES PATENT OFFICE

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FRAME

Application filed October 12, 1931. Serial No. 568,475.

This invention relates to frames and concerns itself primarily with frames adapted to display advertising posters.

It is an object of this invention to provide a frame adapted to receive an advertising poster and to retain said poster in imperforate condition smoothly and securely in position.

A further object is the provision of a frame embodying hinged strips adapted to be swung toward the frame to engage a poster positioned therein and provided with means engageable with the marginal portions of said poster to draw said poster smoothly to position without perforating the poster.

Another object is to provide a frame having hinged strips adapted to be swung into securing position against a poster placed in said frame, said strips being provided with flexible clips effective in the swinging movement of said strips to poster-securing position to exert a pull upon said poster.

Another object is to provide a frame having hinged strips which are provided with flexible clips retained upon said strips in movable relation thereto.

Another object lies in the provision of a frame having hinged strips which are provided with spring clips carried by said strips and transversely movable relative thereto.

A further object lies in the provision of a frame having hinged strips which are provided with upwardly bowed flexible clips rockably secured to said strips.

A further object is the provision of a frame having hinged strips, said strips being provided with recessed portions in which flexible clips are secured.

A further object is to provide a frame having hinged strips, which are provided with upwardly bowed flexible clips, one end of said clips in the operative position of said strips lying substantially in alinement with the strip hinges or extending therebeyond.

A further object lies in the provision of a frame having poster securing strips hinged to such frame whereby to avoid binding between said strips and said frame.

Other objects of this invention will become clear as the description thereof proceeds.

In the drawings forming a part of this specification

Fig. 1 is a face view of the device;

Fig. 2 is an enlarged view of a portion of the device;

Fig. 3 is a sectional view on the line 3—3 of Fig. 1;

Fig. 4 is a sectional view showing the lock, on the line 4—4 of Fig. 5;

Fig. 5 is a section view on the line 5—5 of Fig. 4;

Fig. 6 is a section on the line 6—6 of Fig. 2, showing the hinged strip in open position, and

Fig. 7 is a detail perspective view of a portion of a strip and a clip thereon.

This invention constitutes an improvement on the advertising frame disclosed and claimed in applicant's copending application, Serial No. 517,966, filed February 24, 1931. While this improvement presents a marked and novel contribution to the art to which it pertains it, nevertheless, retains those features of the invention disclosed in said copending application which practical experience has shown to be desirable. Thus, the frame embodies the stiles 10 and 11 and the rails 12 and 13, presenting a rectangular opening adapted to be closed by a backing member 14 which may take the form of a galvanized metallic sheet secured, preferably, to the undersurface of the rails and stiles. In this position the backing member serves to reinforce the stiles and rails, although, if desired, additional reinforcing members, such as 15, may be utilized. The top rail may carry any preferred design which is pleasing in appearance. The construction thus far described is similar to that disclosed in the application above referred to with one significant distinction, namely, the omission from the improved frame of the depressions formed in the backing member of the frame of the said application.

Each of the stiles and rails is rabbeted as indicated at 16 to prevent binding therewith of the strips, 17, 18, 19 and 20 hinged to said stiles and rails. These strips, as clearly il-

lustrated in Figure 1 of the drawings, extend parallel and in spaced relation to the inner edge of the respective stiles or rails to avoid contact therewith and consequent binding in the event of warpage of said strips. This spacing is indicated at 21, 22, 23 and 24. The free edges of said strips are bevelled as designated at 25, 26, 27 and 28 to present a pleasing appearance and, additionally, to cooperate with the bevelled ends 29, 30, 31 and 32 of the strips 17 and 19 and bottom strip 20 to permit them to lie in overlapping relationship in substantially the same plane. It will be observed that in the closed or poster retaining position of the strips the top strip is overlapped by the bevelled upper ends of the side strips 17 and 19 which, in turn, have their lower ends overlapped by bevelled ends of the bottom strip 20, whereby when the lower strip is locked by the mechanism briefly referred to hereinafter the top strip and side strips will also be retained in locked position. The inner faces of the strips are rabbeted as indicated at 33 and the lower ends of the side strips, as well as the ends of the top strip, are recessed at 34 to provide finger grips to aid in swinging said strips toward open position. The rabbeting of the inner faces of said strips presents a limited area of contact between the strips and a poster 35, position in the frame adjacent the face edges of the strips to insure tight engagement with the poster at these edges.

As noted heretofore, the overlapping arrangement of the hinged strips insures locking of all the strips when one of said strips, the bottom one in the illustrated embodiment of the invention, is locked. The locking mechanism is clearly described in the above referred to application and it will here suffice to point out that said mechanism comprises a detent member 36 rotatably supported upon a base 37 secured to the bottom rail and is adapted to be projected into locking engagement with and disengaged from a keeper 38 secured to the bottom strip by means of a key 39 adapted to be inserted in said detent member. The locking mechanism embodies, also, a releasing arm 40 engageable with the bottom strip upon disengagement of the detent member from its keeper.

The poster-retaining strips 17, 18, 19 and 20 are rendered effective by the novel construction of this invention to exert a drawing action upon a poster placed in the frame as well as to retain said poster securely and prevent the wind from getting under the edges thereof and tear it. This construction takes the form of flexible clips 41 illustrated in Figures 3, 6 and 7. A plurality of these clips are secured loosely in spaced relation to the inner face of each of the strips. To effect attachment of said clips to the inner faces of the strips a plurality of nails 42 and 43 may be employed extending substantially through the center of the clips with the heads of said nails positioned in spaced relation to the clips as shown at 44. This attachment permits a slight rocking movement of the clips relative to the strips.

Each of the clips is formed of a strip of metal bowed upwardly from the ends toward the center thereof as viewed in the poster retaining position of the strips. The inner end of said clips is bent upwardly slightly as shown at 45 so that engagement of said clip with a poster will not perforate the poster. The opposite or outer end of the clips is turned upwardly upon itself to provide a tubular portion 46, the edge of which lies upon the clips so as to avoid engagement with, and possible tearing of, the poster. It is to be particularly observed that the outer ends of the clips in the operative position of the strips lie on or beyond the center line of the hinges. By so positioning the clips resultant forces in said clips tending to force the strips toward open position are eliminated. Furthermore, with this construction the movement of the clips relative to the strips effects proper engagement of said clips with a poster as said strips are swung to closed position and a drawing action upon said poster toward the edges thereof to maintain the poster in a smooth, unwrinkled condition within the frame. By the use of flexible clips a very pronounced drawing action upon the poster is obtained and at the same time the integrity thereof is maintained. The exchange value of the poster is thus wholly preserved.

The operation of the strips and the effectiveness of the entire frame, of which the strips constitute an integral part, for its intended purpose is believed to be apparent without further description. It will also be apparent that the invention is not limited to the exact embodiment disclosed, but that changes may be made therein without departing from the spirit thereof. It is intended, therefore, not to limit this invention except as indicated by the scope of the claims appended hereto.

I claim:

1. A frame adapted to receive a poster and the like, comprising a plurality of hinged strips, each of said strips having a plurality of spaced, flexible clips secured thereto, said clips in the closing movement of said strips engaging a poster positioned in said frame and drawing said poster to position smoothly within said frame.

2. A frame adapted to receive a poster and the like, comprising a plurality of hinged strips, each of said strips having a plurality of spaced, flexible clips secured thereto, said clips in the closing movement of said strips engaging a poster positioned in said frame

and drawing said poster to position smoothly within said frame, said flexible clips comprising pieces of metal bowed upwardly from the ends thereof toward the center.

3. A frame adapted to receive a poster and the like, comprising a plurality of hinged strips, each of said strips having a plurality of spaced, flexible clips secured thereto, said clips in the closing movement of said strips engaging a poster positioned in said frame and drawing said poster to position smoothly within said frame, said flexible clips comprising pieces of metal bowed upwardly from the ends thereof toward the center, and being secured in relatively movable relation to said strips.

4. A frame adapted to receive a poster and the like, comprising a plurality of hinged strips, each of said strips having a plurality of spaced, flexible clips secured thereto, said clips in the closing movement of said strips engaging a poster positioned in said frame and drawing said poster to position smoothly within said frame, said flexible clips comprising pieces of metal bowed upwardly from the ends thereof toward the center, each of said clips being secured substantially through its center and in rockable relation to said strips.

5. A frame adapted to receive a poster and the like, comprising a plurality of hinged strips, each of said strips having its inner face rabbeted and a plurality of upwardly bowed spring clips secured to said strips and lying in transverse relation thereto in said rabbeted portions.

6. A frame adapted to receive posters and the like, comprising a plurality of hinged strips, a plurality of upwardly bowed spring clips secured to said strips adapted to engage a poster placed in said frame, the outer ends of said clips in the closed position of said strips lying in or beyond a vertical plane including the axes of the hinges of the respective strips to which said clips are secured.

7. A frame adapted to receive a poster and the like, comprising a plurality of hinged strips, each of said strips having a rabbeted inner face and a plurality of upwardly bowed spring clips secured in said rabbeted portions in movable relation to said strips, for the purpose set forth.

8. A frame adapted to receive a poster and the like, comprising stiles and rails, a plurality of strips, hinges securing said strips in spaced relation to said stiles and rails, each of said strips having a rabbeted inner face and a plurality of upwardly bowed spring clips secured in said rabbeted portions in movable relation to said strips, the outer ends of said clips in the poster engaging position of said strips lying not closer to said strips than a plane including the axes of the hinges of the respective strips.

9. A frame for the display of posters and the like comprising a plurality of hinged strips, means carried by each of said strips in spaced relation to the inner edge thereof, said means and said edge of each of said strips being adapted to engage a marginal portion of a poster positioned in said frame and retain said poster in imperforate condition.

10. A frame adapted to receive a poster and the like, comprising a plurality of hinged strips and poster engaging spring clips secured to the inner face of said strips in transverse relation thereto.

11. A frame adapted to receive a poster and the like, comprising a plurality of hinged strips, and poster engaging spring clips secured to the inner face of said strips in transverse relation thereto, the inner edges of said strips extending inwardly beyond said clips.

12. A frame for the display of posters and the like comprising a plurality of hinged strips, flexible means carried by said strips in spaced relation to the inner edges thereof, said flexible means and said edges in the closed position of said strips engaging marginal portions of a poster positioned in said frame, said flexible means exerting tension upon said poster.

13. A frame for the display of posters and the like comprising a backing member, a plurality of hinged strips engaging a poster supported in said frame upon said backing member, poster engaging means, said strips in the closed position thereof bearing upon said poster engaging means and exerting an outwardly directed pressure thereupon, said pressure being communicated through said means to said poster.

14. A frame for the display of posters and the like comprising a backing member, a plurality of hinged strips for engaging a poster supported in said frame upon said backing member, resilient poster engaging means carried by said strips, said strips in the closed position thereof bearing upon said poster engaging means and exerting an outwardly directed pressure thereupon, said pressure being communicated through said means to said poster.

Signed at Racine, Wisconsin, this seventh day of October, 1931.

WENZEL J. SIMANEK.