May 12, 1936. H. FABRY 2,040,251

PHOTOGRAPH DISPLAY APPARATUS

Filed Dec. 20, 1935

Fig. 1.

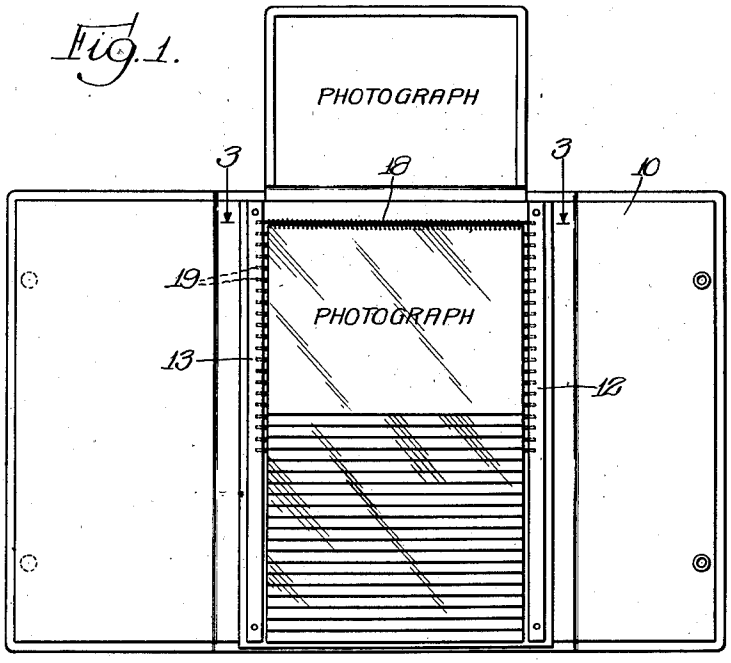


Fig. 2.

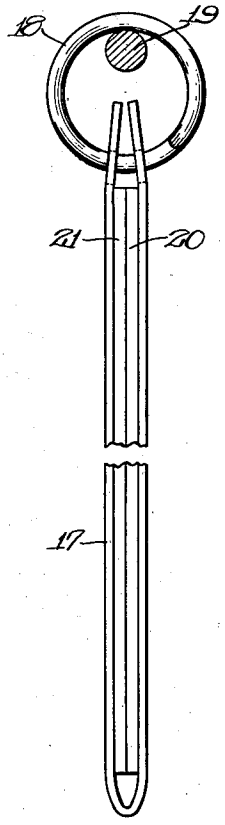


Fig. 3.

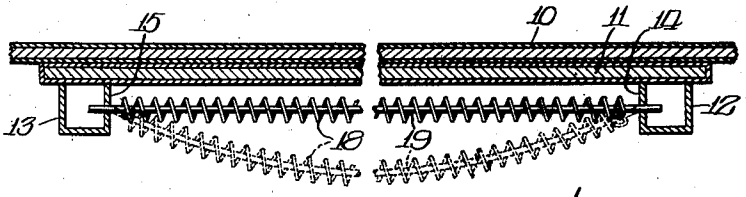


Fig. 5.

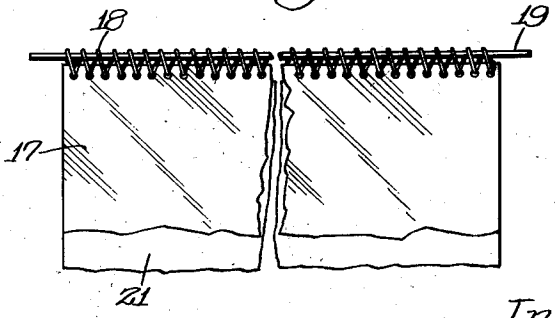
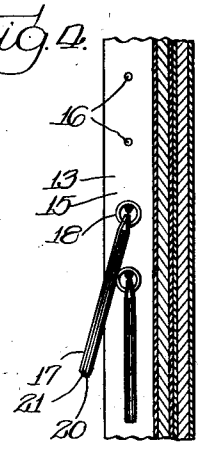


Fig. 4.



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UNITED STATES PATENT OFFICE

2,040,251

PHOTOGRAPH DISPLAY APPARATUS

Herman Fabry, Evanston, Ill.

Application December 20, 1935, Serial No. 55,337

8 Claims. (Cl. 40—102)

My invention relates to means for displaying photographs and similar illustrations and particularly to an improvement on or modification of the construction illustrated in my copending application, Serial No. 21,090, filed May 13, 1935.

In the construction heretofore proposed and illustrated in my said copending application, the photographs or illustrations are joined back-to-back with a hinge member at one side edge within which a resilient wire is mounted, the wire and photographs being adapted to be bowed in order to insert the projecting ends of the wire into openings in adjacent parallel flanges or walls that are fixed to a support. This construction is useful and satisfactory, but I have found that a desirable result may be secured in another manner by providing a transparent envelope within which the photographs may be placed, either singly or in back-to-back arrangement, the envelope being provided with a hinge member preferably in the form of a spiral tube within which the said wire may be seated. This construction enables withdrawal or substitution of photographs and adapts the device for use without the necessity for adhesively joining photographs to a hinge member previous to use.

The invention will be more readily understood by reference to the accompanying drawing, in which:

Fig. 1 is a plan view of a carrying case or portfolio to which my improved display apparatus has been applied;

Fig. 2 is an end view, greatly enlarged, showing the assembly of the envelope, binding, tube, wire, and photographs;

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

Fig. 4 is a fragmentary sectional view showing the position of the parts when mounted; and,

Fig. 5 is a view, somewhat enlarged, showing the display unit separate from the carrying frame.

In the drawing I have illustrated a folder 10 on which a support 11 is mounted. Secured to the support are channels 12—13 spaced apart in parallel arrangement, the inside walls or flanges 14—15 of the channels being provided with a plurality of longitudinally spaced apertures 16, as best shown in Fig. 4.

An envelope 17 is formed by doubling a sheet of transparent material on itself, thus leaving open the two ends and one side. The open side is perforated as shown and a spiral tube 18 is caused to engage with the openings. This is generally known as a spiral binding. Preferably the transparent material is a clear grade of a non-inflammable material such as used for some photographic films, although celluloid, Cellophane or similar material may be used.

The spiral tube accommodates a length of straight resilient wire 19 of greater length than the length of the envelope and of greater length than the space between the walls 14—15. Thus, to enable the wire to be seated in the position shown in Fig. 3, it and the spiral tube and envelope, together with the photographs, if any are in place, must be bowed as shown in dotted lines in Fig. 3. This permits the two ends of the wire to enter the apertures 16 in the walls. Thereafter the envelopes may be turned to either of two positions to display photographs that are received through the open ends and placed back-to-back within said envelopes. Two photographs, indicated at 20—21 in Fig. 2, are shown in place, and due to the relative stiffness of the material composing the envelope and the fact that normally the envelopes will be under some pressure, the photographs will remain flat without being joined back-to-back.

It is obvious that different forms of hinge members may be substituted for the spiral binding shown, although I consider the said spiral binding as preferable. This and other modifications may be made without departure from the spirit of my invention.

I claim:

1. In combination, a support, a pair of parallel spaced flanges perpendicularly arranged on said support, said flanges having a plurality of spaced transverse apertures, a transparent envelope adapted to receive a photograph, hinge means at one side edge of said envelope, a wire in said hinge means, said wire being longer than the space between said flanges, said envelope, photograph, hinge and wire being adapted to be bowed in order to insert the ends of the wire in the apertures in said flanges.

2. In combination, a pair of parallel, spaced walls each having longitudinally spaced transverse openings therein, a transparent envelope adapted to receive two photographs in back-to-back relation, a wire connected to one side edge of said envelope, said wire being longer than the space between said walls, and projecting beyond the ends of said envelope, whereby said wire and envelope must be bowed in order to insert the ends of said wire in the openings in said walls.

3. In combination, a pair of parallel spaced walls each having longitudinally spaced transverse openings therein, a transparent envelope adapted to receive a photograph, a spirally wound

tube of wire, the spirals of which engage one edge of said envelope, a length of wire in said tube, said wire being of greater length than the space between said walls and projecting beyond the ends of said envelope whereby said wire must be bowed in order to be inserted in the openings in said walls.

4. In combination, a pair of parallel spaced walls each having longitudinally spaced transverse openings therein, a transparent envelope composed of a sheet of material doubled on itself and having open ends, a spirally wound tube of wire, the spirals of which engage one edge of said envelope, a length of wire in said tube, said wire being of greater length than the space between said walls and projecting beyond the ends of said envelope whereby said wire must be bowed in order to be inserted in the openings in said walls.

5. In combination, a pair of parallel spaced walls each having longitudinally spaced transverse openings therein, a transparent envelope composed of a sheet of material doubled on itself and having open ends, a spirally wound tube of wire, respective turns of which engage in openings in a side edge of said envelope, a length of resilient wire in said spiral tube, said wire being of greater length than the space between said walls, whereby said wire and said spiral must be bowed in order to engage both ends of said wire in said walls.

6. In combination, a pair of parallel spaced walls each having longitudinally spaced transverse openings therein, a transparent envelope composed of a sheet of material doubled on itself and having open ends, a spirally wound tube of wire, respective turns of which engage in openings in the otherwise open side of said envelope, a length of resilient wire in said spiral tube said wire being of greater length than the space between said walls, whereby said wire and said spiral must be bowed in order to engage both ends of said wire in said walls.

7. In combination, a support and a pair of spaced parallel walls erected on said support, a transparent envelope adapted to receive a photograph, a spirally wound tube of wire, the spirals of which engage one edge of said envelope, a length of wire in said tube, said wire being of greater length than the space between said walls and projecting beyond the ends of said envelope, the projecting ends of said wire being adapted to be received in openings in said walls.

8. In combination, a pair of parallel spaced walls, a transparent envelope composed of a sheet of material doubled on itself and having open ends, a spirally wound tube of wire, respective turns of which engage in openings in the otherwise open side of said envelope, a length of resilient wire in said spiral tube, said wire being of greater length than the space between said walls, the projecting ends of said wire being adapted to be received in openings in said walls.

HERMAN FABRY.