

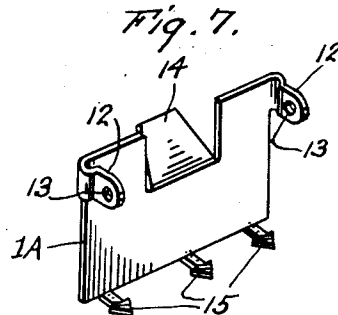
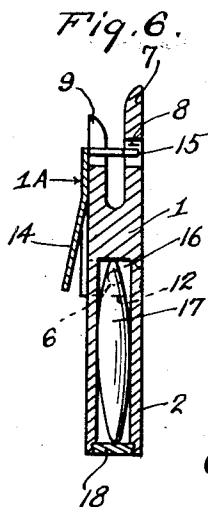
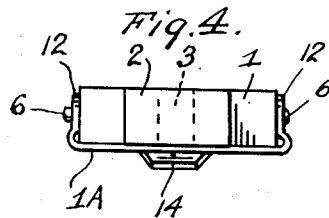
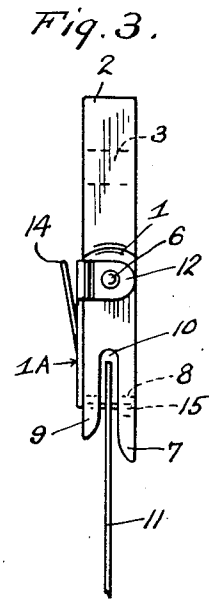
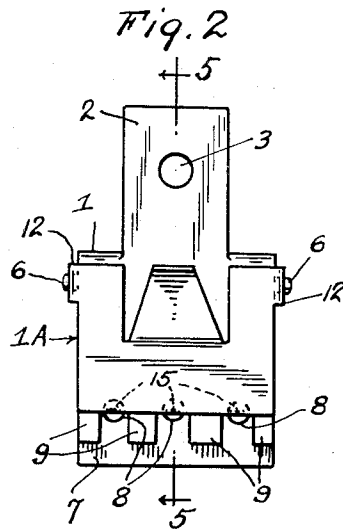
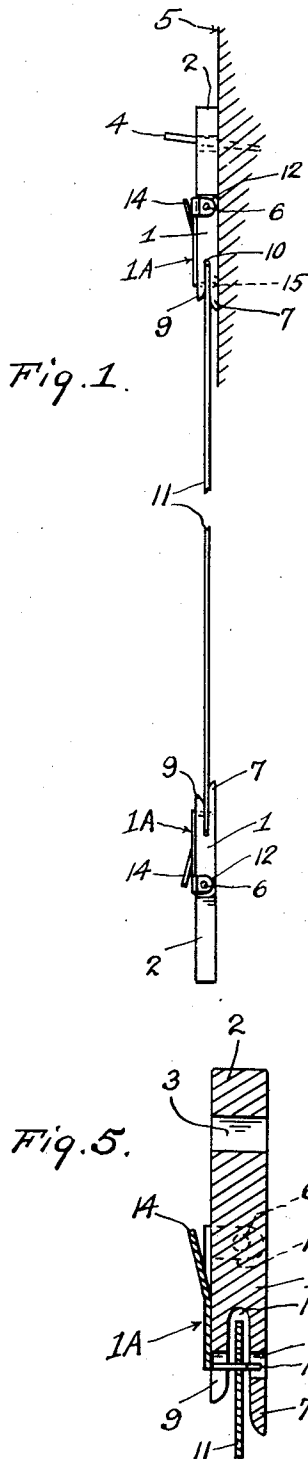
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C. SIMPSON

2,387,471

FILM CLIP

Filed May 25, 1944



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UNITED STATES PATENT OFFICE

2,387,471

FILM CLIP

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2 Claims. (Cl. 24—253)

My invention, considered from the standpoint of its unique construction and uses, has to do with clips for use with photographic films or negatives and which has a main body part of substantially non-corrosive or chemical resistant material such as plastic or hard rubber, and to which is removably attached a retaining or clamping member having arrow-shaped teeth to penetrate a film and hold the same both during the operation of development and drying, and means for weighting the clip and other means for suspending the same from a support.

Photographic film requires much handling in developing and drying, and the acids and conditions to which the film is subjected, places an unusual burden on clips used with the film. My clip is designed to reduce cost by providing a replaceable, metal, anchoring or clamping part, with arrow-shaped teeth penetrating the film and designed to securely anchor the film to the base of the clip (which is acid and corrosive resistant) during handling.

Furthermore, I provide improved weighting means for those clips at the bottom of a film, and means for suspending the clip from a support. In addition, the arrow-shaped teeth substantially lock a film in a clip so that possibility of detachment is eliminated during handling.

Other and equally important objects and advantages of my invention, briefly stated, are (1) elimination of springs which lose tension and become corroded in photographic development due to contact with acids and the like (2) reduction of cost in clips, and reduction of metal parts thereby rendering such clips more practical in use (3) substitution of penetrating arrow-headed teeth for the film instead of the usual friction grip, thereby insuring positive attachment of clips, and (4) provision for weighting the clips to facilitate proper development of films.

In addition to the above, other advantages will appear hereinafter, but it is emphasized that I do not wish to limit myself to the particular forms and construction and arrangement of parts herein described, except as to limitations imposed by the state of the art.

In the drawing wherein I have illustrated a preferred embodiment of my invention:

Figure 1 is a side elevation (or edge view) of a film to which my clips are attached for suspension from a base, and for weighting.

Figure 2 is a front elevation of my clip used for suspending a film and the like.

Figure 3 is a side (or edge) view of my clip.

Figure 4 is a top plan (or edge) view of my clip.

Figure 5 is a sectional side elevation of my clip taken on the line 5—5 of Figure 2.

Figure 6 is a vertical section of my clip, weighted to be used in properly developing a film and designed to be attached to its bottom edge after the manner shown in Figure 1, and

Figure 7 is a perspective view of my metallic arrow-toothed film anchoring member.

In the drawing wherein like characters of reference are used to designate like or similar parts:

The numeral 1 designates the substantially non-corrosive, chemical resistant body of my clip which may be formed of suitable plastic, or hard rubber, or the like. The body 1 may be cast in one piece and has an upper extension 2 formed with an opening 3 for receiving a nail or other attaching means 4 to a support 5, see Figure 1. The body of my clip is substantially rectangular in front elevation and has opposed trunnions 6 adjacent its upper edge, at the bottom edge is an extension 7 having a series of horizontally aligned openings 8 registering with the spaces between the teeth 9 which are formed on the body above and spaced from the extension 7. The material of the body is cut-away or recessed between the teeth 9 and extension 7 to form a slot 10 in which the photographic film 11 is fitted when the clip is applied thereto. Pivotaly mounted on the body 1 is a metallic anchoring device 1A which has ears 12 with openings 13 engaging the trunnions 6 to removably assemble the anchoring device on the body. An up-struck finger piece 14 is formed in the body, and at the bottom edge thereof are spaced arrow-shaped teeth 15 turned at right angles to the body to extend between the teeth 9 and into the openings 8 in the extension 7.

In operation, a film 11 is inserted in the slot 10 above the extension 7 and the arrow-shaped teeth forced through the film to firmly anchor the same in the clip. The film may then be suspended from a support as in Figure 1. The anchoring device 1A is removable from the base if desired and may be replaced if required at any time.

A similarly constructed and operated clip is used for weighting the film at its bottom edge as shown in Figures 1 and 6, except that the body is formed with an opening 16 in which is carried a suitable weight 17, after the insertion of which the opening is plugged as at 18.

Emphasis is laid upon the peculiar and unique formation and operation of the arrow-shaped

teeth, and the fact that the clip is simple in operation, has no springs, and the single metal part is detachable and replaceable at will.

Interpretation of the scope of my invention, and the extent and breadth of my inventive concept, is only to be ascertained by reference to the appended claims.

I claim:

1. A clip device, comprising a body formed of corrosion and chemical resistant material, said body having an extension formed with spaced openings, a part of the body over-lying and spaced from the extension and having slots reg-

istering with the openings, a hingedly and demountably connected anchoring device on the body having arrow-shaped teeth receivable in the slots and openings, a weighting device carried by the body out of contact with corrosive substances and chemicals, and the body formed with a slot for receiving the edge of an object inserted between the extension and the over-lying part of the body, and engaged by the teeth.

2. The invention as in claim 1 whereby said weighting device is hingedly and detachably carried by the body.

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