May 16, 1950 S. PRESTON 2,508,077

CLIP

Filed March 6, 1948

Fig. 1.

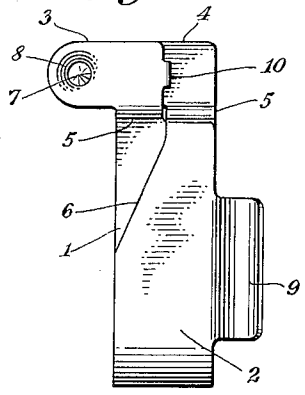


Fig. 2.

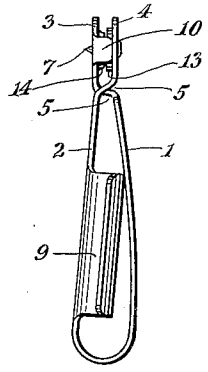


Fig. 3.

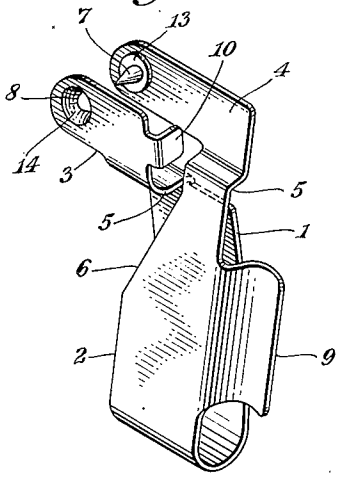


Fig. 4.

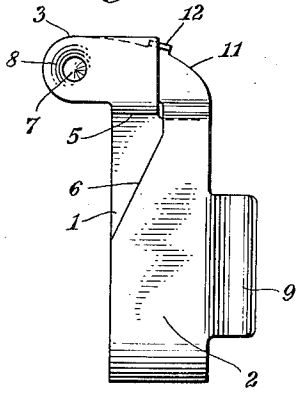
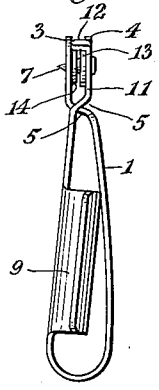


Fig. 5.



INVENTOR.
Samuel Preston.

BY

William F. Nickel

ATTORNEY.

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CLIP

Samuel Preston, Brooklyn, N. Y.

Application March 6, 1948, Serial No. 13,372

1 Claim. (Cl. 24—150)

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My invention is an improvement in clips and particularly a clip of elastic stainless spring steel adapted to support X-ray and photographic films, plates and other objects for developing, drying and other purposes.

An important object of this invention is to provide a clip of simple construction, having arms with ends spaced apart to allow the developing solutions to drain off quickly so as not to streak film.

Further objects and advantages are made apparent in the following description and the novel features are defined in the claim. But this specification discloses only the preferred embodiments of my improvement; and in practice I may vary the details of the clip without departure from the real combination in which the invention resides.

On the drawings:

Figure 1 is a front view of a clip according to this invention.

Figure 2 is a side view thereof.

Figure 3 is a perspective view of the same; and

Figures 4 and 5 are respectively front and side views of another embodiment of the invention.

The clip of Figures 1, 2 and 3 is made of an elastic strip preferably of metal, bent double transversely in the middle to present superposed, separated, resiliently united arms 1 and 2. At the movable ends the arms have lateral extensions 3 and 4 respectively, superposed upon each other and substantially flush with each other at their outer extremities. Each of these extensions on one of the arms is offset towards the plane of the other arm, by means of a bent portion 5 at the junction of each extension with the arm carrying it. The two arms or main sections of the bent clip thus cross or intersect at the junctions 5.

The extension 3 is connected to the arm 1 adjacent one lateral edge and the connecting portion 5 is of less width than said arm. The connecting portion 5 of the other extension 4 is likewise narrower than the arm 2 and is situated at the opposite lateral edge of said arm 2; the other edge of the arm 2 having a diagonal portion 6 to reduce its width adjacent the extension 3. Both the connecting portions 5 have a shouldered shape with respect to the arms 1 and 2 and are in alinement across the clip. One ex-

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tension also has a protruding point 7, and the other a small recess or opening 8 into which the point 7 is thrust. When the arms 1 and 2 are pressed towards each other the extensions move away from each other, and the edge of a photographic film or other flat sheet can be inserted between them to be gripped by the point 7. The extensions thus form jaws for seizing and holding the article to be supported by it.

One of the arms, preferably the arm 2, has a lug 9 to enable it to be soldered or otherwise affixed to a frame so that the article can be secured in place and handled to better advantage. The frame will carry as many clips as are required for the work to be done with it.

In the form shown on Figures 1, 2 and 3, one of the extensions, such as the extension 3 attached to the arm 1 is shorter and has a projection at the end adjacent its junction 5. This projection is bent over towards the extension 4, which overlaps the extension 3 at the other junction 5 and makes a spacing lug, indicated at 10, which engages the other extension 4 and prevents these extensions 3 and 4 from retaining developing liquid when withdrawn from the developing tank.

The point 7 projects from a boss 13 on an extension 4 and the rim 14 of the opening 8 projects inward. The film is held between this boss 13 and rim 14, and the point 7 pierces it.

The height of the stop 10 is about equal to the combined height of the boss 13 and rim 14; this in practice about a sixteenth of an inch. In the clip as shown in Figures 4 and 5, the longer extension 4 has a rounded corner 11 and the stop 10 of the form illustrated in Figures 1, 2 and 3 is replaced by a stop 12 on the outer edge of the extension 4 adjacent the corner 11. The stops 10 and 12 limit the closing movement of the extensions 3 and 4.

Having described my invention, what I believe to be new is:

A clip comprising a pair of movably connected arms, one of which has a lateral extension at its free end, offset at its junction with said arm towards the plane of the other arm, the latter having a similar lateral extension at its free end and offset at its junction with said other arm towards the plane of the first-named arm, said extensions projecting sidewise of the clip in one

and the same direction and being superposed and substantially flush with each other at their outer edges, the arms having shouldered portions joining said extensions thereto and crossing each other at the junctions of the respective extensions; a spacing lug carried by one extension on one edge and engaging the other to limit the closing movement of the arms of the clip, and a protuberance on one extension, the other having a recess in line with said protuberance.

SAMUEL PRESTON.

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