N. C. ROYEM.

DEVICE FOR IMMERSING REPRODUCTIONS.

APPLICATION FILED MAR. 10, 1916.

1,208,379. Patented Dec. 12, 1916.

Fig. 1.

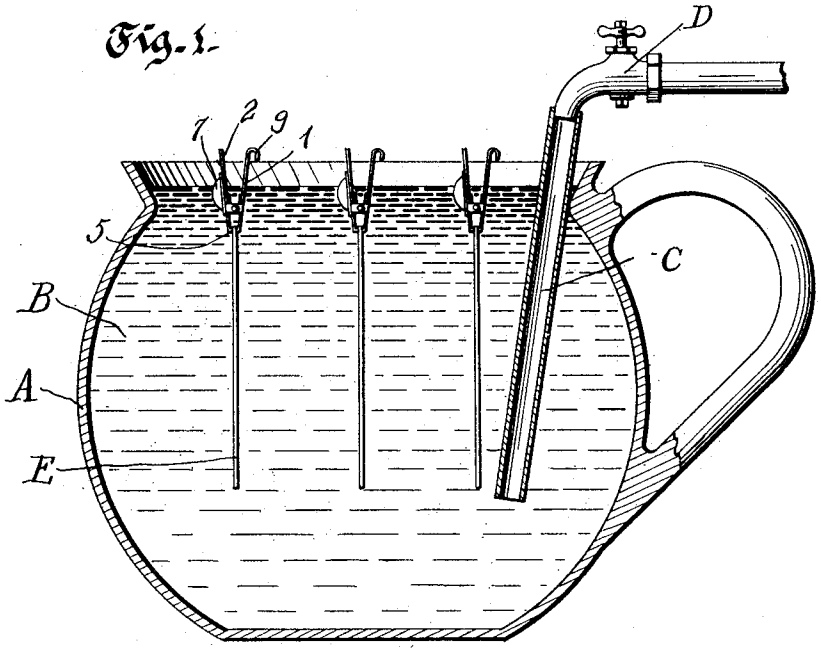


Fig. 2.

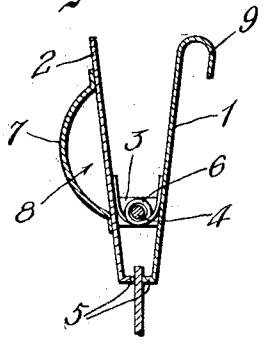


Fig. 3.

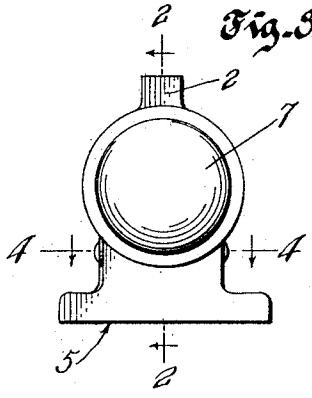
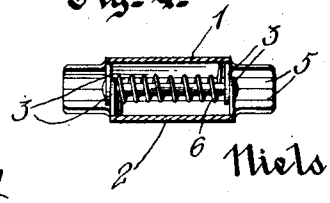


Fig. 4.



WITNESSES

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DEVICE FOR IMMERSING REPRODUCTIONS.

1,208,379. Specification of Letters Patent. Patented Dec. 12, 1916.

Application filed March 10, 1916. Serial No. 83,369.

To all whom it may concern:

Be it known that I, NIELS CARSTEN ROYEM, a subject of the King of Norway, residing at Niagara, in the county of Marinette and State of Wisconsin, have invented certain new and useful Improvements in Devices for Immersing Reproductions, of which the following is a specification.

This invention relates to devices for immersing films or photographic prints in liquid baths and more particularly to a device of this character which will suspend photographic reproductions from the suface of the liquid bath or fixing mixture while the reproduction is being washed or fixed.

The invention further aims to provide a device that will be similar to the ordinary clip which is employed for hanging prints on a line to be dried but which will contain a buoyant float or chamber whereby the clip will be retained at the surface of the liquid.

As a further object of the invention the device aims to provide a clip that can be used both for suspending the photographic reproduction in the liquid and which can also be used for suspending the reproduction from a line while it is drying.

A further object of this invention is the provision of a device for immersing reproductions which consists of comparatively few parts and is simple in construction, but durable and well adapted to withstand the usage to which devices of this character are ordinarily subjected.

For a full description of the invention and the advantages and merits thereof, reference is to be had to the following description and the accompanying drawings, wherein is illustrated the preferred form of my invention, in which,

Figure 1 is a vertical section through a vessel showing the device in use. Fig. 2 is a vertical section through the device on the line 2—2 of Fig. 3. Fig. 3 is a side elevation, and Fig. 4 is a transverse section on the line 4—4 of Fig. 3.

For purposes of illustration I have shown a vessel A containing liquid B which is fed into the vessel by means of the pipe C from the ordinary spigot D, which is the usual method of washing the photographic reproductions E. I desire it to be understood that the device may be employed equally as well in a container which has a fixing mixture or hypo in which the reproductions are submerged.

The clip consists of a pair of arms 1 and 2 which are provided with ears 3 in which apertures are provided for the reception of a pivot pin 4. The lower ends of the arms 1 and 2 are inwardly bent to provide clip flanges 5 which are designed to contact with the film, print or plate and tightly clench it to the clip. Arranged around the pivot pin 4 is a coil spring 6 which has its ends upwardly extending and bearing against the arms 1 and 2 for exerting an outward pressure on the arms 1 and 2 above the pivot pin 4, whereby the pinch flanges 5 will be held in contact with the photographic reproduction.

Mounted upon the outside face of the arm 2 is a hemispherical casing 7 which is provided with a flange around its outer periphery for securing the casing 7 to the clip arm 2 and a chamber 8 is thereby provided in which the air is contained which will render the clip buoyant and cause it to float at the surface of a liquid. A hook 9 is provided at the top of the clip arm 1 whereby the clip may be suspended from a line for holding the print or film in a position for drying.

From the foregoing it will be observed that a very simple and durable buoyant device for immersing reproductions has been provided, the details of which embody the preferred form. I desire it to be understood however, that slight changes or modifications in the minor details of construction may be made without departing from the spirit of the invention or the scope of the claims hereunto appended.

I claim:

1. In a device of the character described comprising a buoyant clip having a pair of pivoted arms adapted to have their ends contact to clench a photographic reproduction, and buoyant means carried by one of the arms for retaining said clip on the surface of the liquid.

2. In a device of the character described comprising a clip, and an air chamber car-

ried by the clip including a hemispherical casing having its edge secured to the clip.

3. In a device of the character described comprising a clip, a casing carried by the clip and providing an air chamber, for preventing the submersion of said clip.

In testimony whereof I affix my signature in presence of two witnesses.

NIELS CARSTEN ROYEM.

Witnesses:

OSCAR SUNDQUIST,

ARTHUR W. WILSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents Washington, D. C."