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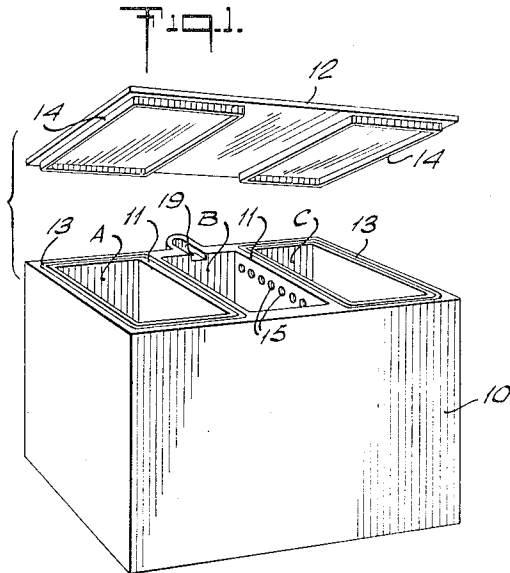
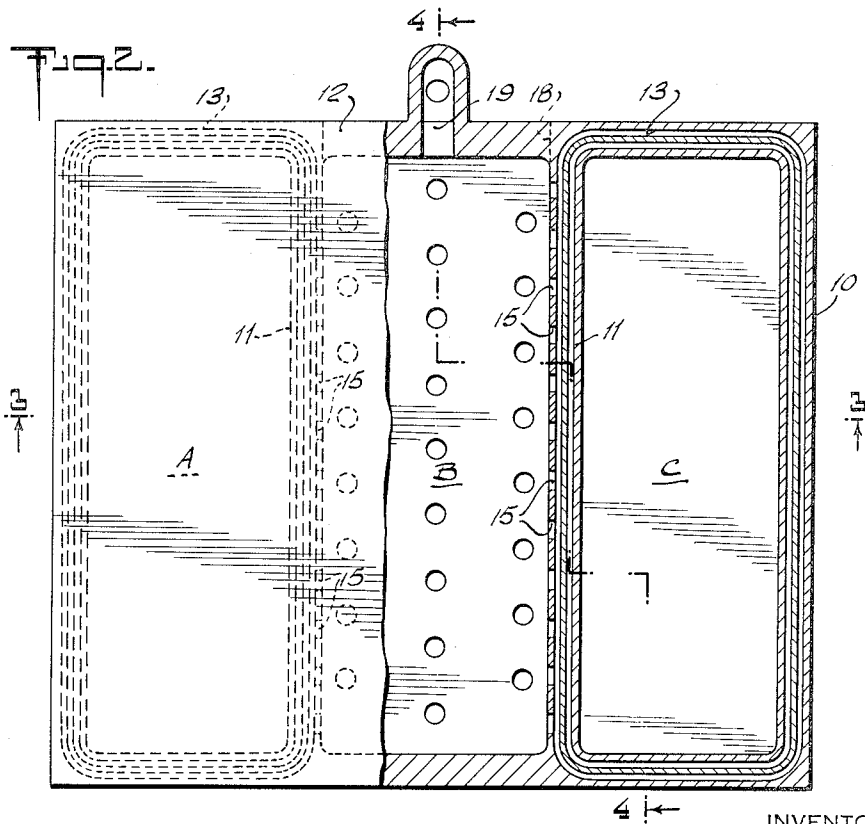
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CONTAINER FOR DEVELOPING TANKS

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2 Sheets-Sheet 1



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CONTAINER FOR DEVELOPING TANKS

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1 Claim. (Cl. 95—89)

This invention relates to a container for photographic developing tanks.

It is an objective of this invention to provide a container holding all the necessary developing solutions properly arranged so that a closed tank containing an exposed film may be developed, washed and fixed merely by removing it from one compartment of the container to another, and then may be washed merely by turning on the wash water, without muss and without danger or need of opening the tank.

It is a further object to provide a container which will be completely sealed while closed so that oxidation or other deterioration of the developing solutions may be reduced to a minimum.

It is a further object to provide a container through which wash water may be caused to flow in a manner to give equal washing to all portions of the film.

This container is especially adapted for use with the type of developing tank in which the film is contained within a protecting frame and folded zigzag, and the tank is of rectangular form to receive the loaded frame. That tank has ingress and egress openings for solutions, which are light trapped. While it will be clear that the container compartments shall be no larger than necessary to receive the tank.

The device is illustrated in the accompanying figures, in which Fig. 1 is a perspective view of a container and cover embodying this invention. Fig. 2 is a top plan view with a part of the cover broken away. Fig. 3 is a section along the lines 3—3 of Fig. 2. Fig. 4 is a section along the line 4—4 of Fig. 2.

The device consists primarily of a container 10 divided into three compartments A, B and C by partition 11. Each of these compartments is of a size and shape to receive the developing tank with which it is to be used, with a little clearance. The compartments A, B and C are receiving the developer, the wash water and the fixer of the usual developing process and the container is closed by a cover 12.

The compartments A and C may be provided with a suitable sealing arrangement to limit the access of air to the developing and fixing solutions. As shown a groove 13 is cut into the upper face of the side walls of these compartments to receive water or solution, and the underside of the cover carries a downwardly extending circumferential flange 14 adapted to fit within groove 13 and to extend into a water bath contained therein.

To insure the presence of liquid in the water bath to

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the proper depth, openings 15 are provided leading from the groove into the compartment B at a height to maintain the water level above the bottom edge of the flange 14 but to prevent splashing as the cover is put in place.

5 The central compartment B is provided with a perforated bottom 16 defining below it an intake chamber 17 for water which may be connected with a water supply through an inlet 18 into which a suitable hose may be fitted.

10 This central compartment B also has an over flow discharge opening 19, which similarly may be connected to waste.

The use of the device will be obvious. The sealed tank, having the film therein, may be first inserted in the central compartment B and the compartment is filled with water. As the water rises gently it wets the surface of the film without air bubbles.

After the film is wet, it is lifted out of compartment B, the water draining out of it, and inserted into the developing liquid in compartment A. As in all tank development the duration of the developing is fixed by the temperature, after which the tank is again transferred to compartment B which may still be full of water.

How much washing is done is determined by the skill of the operator. The tank is then removed from the compartment B and put into compartment C containing the acid fixing bath for the prescribed length of time. After fixing it is again inserted in compartment B. A flow of water through that compartment is maintained long enough to wash out all the fixer.

Thereafter the film may be dried in the usual manner.

What I claim:

A developing device comprising a vessel having transverse partitions dividing it into two end sections and a middle section, grooves on the upper edge of said vessel surrounding said end sections having lateral openings into said middle section, a cover having a flange adapted to extend into said groove to a point below said lateral opening, said middle section having a perforated false bottom and a water supply below said bottom and having a water outlet above the level of said lateral openings whereby said grooves are automatically kept filled with water.

References Cited in the file of this patent

UNITED STATES PATENTS

750,665	Lesperance	Jan. 26, 1904
906,491	Gold	Dec. 8, 1908
934,331	Merrill	Sept. 14, 1909
1,074,572	Norton	Sept. 30, 1913
1,254,300	Baker	Jan. 22, 1918
1,810,857	Thompson	June 16, 1931
2,192,755	Robkin	Mar. 5, 1940
2,327,733	Moore	Aug. 24, 1943
2,405,160	Morse	Aug. 6, 1946
2,542,830	Newton et al.	Feb. 20, 1951
2,562,588	Traiber	July 31, 1951

FOREIGN PATENTS

633,995	Great Britain	Dec. 30, 1949
382,537	Great Britain	Oct. 27, 1932