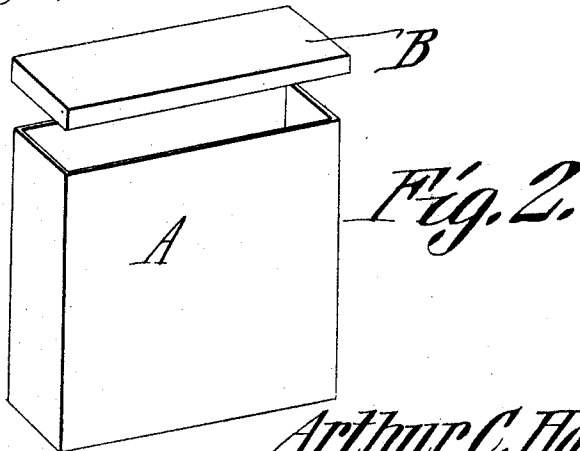
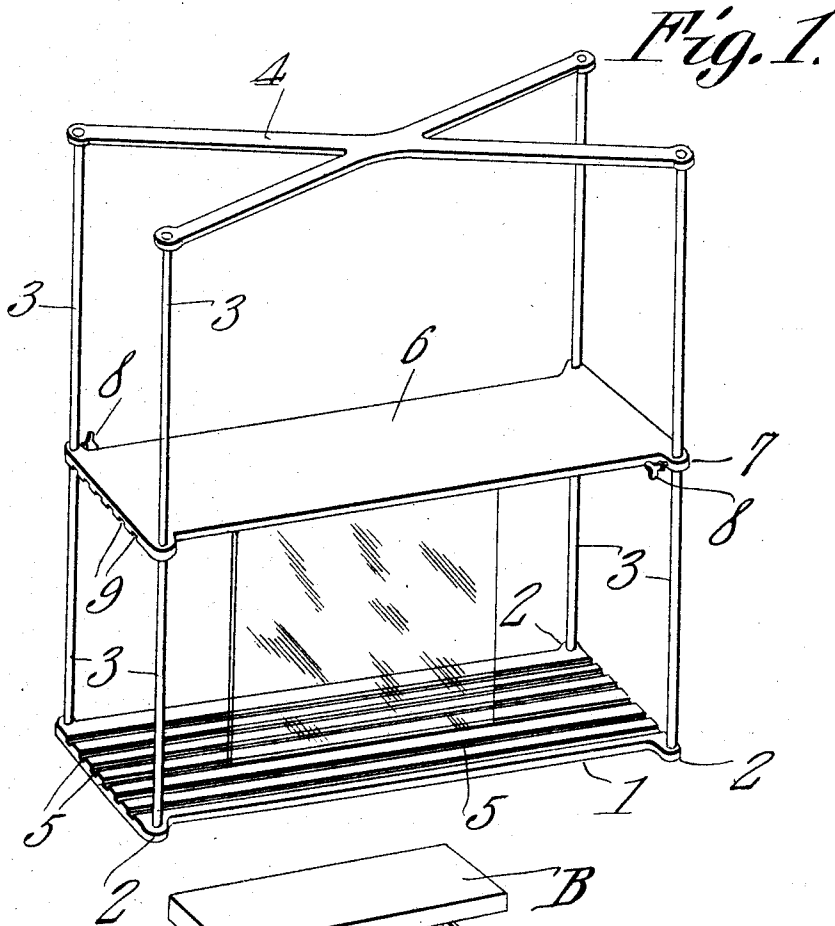


A. C. HAYDEN.
DEVELOPING APPARATUS.
APPLICATION FILED NOV. 3, 1909.

976,173.

Patented Nov. 22, 1910.



Witnesses

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UNITED STATES PATENT OFFICE.

ARTHUR C. HAYDEN, OF BROCKTON, MASSACHUSETTS.

DEVELOPING APPARATUS.

976,173.

Specification of Letters Patent.

Patented Nov. 22, 1910.

Application filed November 3, 1909. Serial No. 526,103.

To all whom it may concern:

Be it known that I, ARTHUR C. HAYDEN, a citizen of the United States, residing at Brockton, in the county of Plymouth and State of Massachusetts, have invented a new and useful Developing Apparatus, of which the following is a specification.

This invention relates to apparatus for developing photographic plates and more particularly to racks for holding plates within a tank having a suitable developing fluid therein.

The object of the present invention is to provide a light, durable and inexpensive rack which will properly hold plates of standard and special sizes, the said rack being readily adjustable so as to fit the plates and being arranged to positively hold the plates out of contact with one another at all times during the manipulation of the rack.

With these and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claim.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings, Figure 1 is a perspective view of a rack embodying the present improvements. Fig. 2 is a detail view on a reduced scale, of the tank with which the rack may be employed.

Referring to the figures by characters of reference 1 designates a base plate preferably substantially oblong and having laterally extended corner portions 2 within each of which is secured the lower end of a guide rod 3, the upper ends of these rods being fixedly connected and held properly spaced apart by a series of radially disposed integral arms 4 constituting a handle by means of which the rack may be conveniently manipulated. Longitudinally extending parallel channels 5 are formed in the base plate 1 and each channel is sufficiently wide to receive the thickest type of photographic plate.

A clamping plate 6 is arranged above the base plate 1 and has apertured corner portions 7 through which the rods 3 extend, there being set screws 8 arranged within diametrically opposed corners of the plate 6 and which are designed to bind upon the adjoining rods and thus lock the plate in any desired position thereon. Longitudi-

nally extending channels 9 are formed in the lower face of the clamping plate 6 and correspond with the channels 5 heretofore referred to, there being one channel 9 located directly above each of the channels 5.

In using the rack herein described, for developing purposes, a suitable tank A is utilized, this tank being preferably formed with a cover B. The set screws 8 are disengaged from the rods 3 and the clamping plate 6 is moved away from the plate 1 a sufficient distance to permit the insertion of photographic plates between the two plates 1 and 6. These photographic plates are to be placed within the channels 5 and 9, it being of course understood that the plate 6 is to be lowered onto the photographic plates so as to cause the upper and lower edges of the photographic plates to rest within the two sets of grooves or channels. By tightening the set screws 8 the clamping plate will be securely held with relation to the base plate.

Attention is directed to the fact that the grooves or channels extend from one end to the other of the two plates and there is therefore no limit as to the length of plates placed within the rack. Moreover, as the plate 6 can be secured at any desired point upon the rods, it can be adjusted so as to clamp upon plates not only of standard sizes, but also upon plates of special sizes. After plates have been secured in the rack in the manner described, said rack can be placed in the tank A, said tank being filled with a developing fluid. The cover B serves to exclude light during the developing process and also to prevent the developer from splashing upon the operator should it be desired to agitate the developer during the developing operation.

It will be seen that the rack is very simple in construction, durable and efficient, and can be easily manipulated.

Various changes can of course be made in the construction and arrangement of the parts without departing from the spirit or sacrificing any of the advantages of the invention.

What is claimed is:—

Developing apparatus including a rectangular base plate having plate receiving channels, guide rods fixed relative to and upstanding from the corners of the base plate, a rectangular clamping plate slidably mounted at

its corners on said rods and having plate
receiving channels, means for securing the
clamping plate against movement upon the
rods, and diagonally extended connections
5 between the upper ends of the rods, said con-
nections meeting to form a handle above the
centers of the clamping and base plates.

In testimony that I claim the foregoing as
my own, I have hereto affixed my signature
in the presence of two witnesses.

ARTHUR C. HAYDEN.

Witnesses:

C. E. DOYLE,
Geo. B. PITTS.