

I. H. Cross,

Photograph Plate Holder.

No. 100,866.

Patented Mar. 15. 1870

Fig. 1.

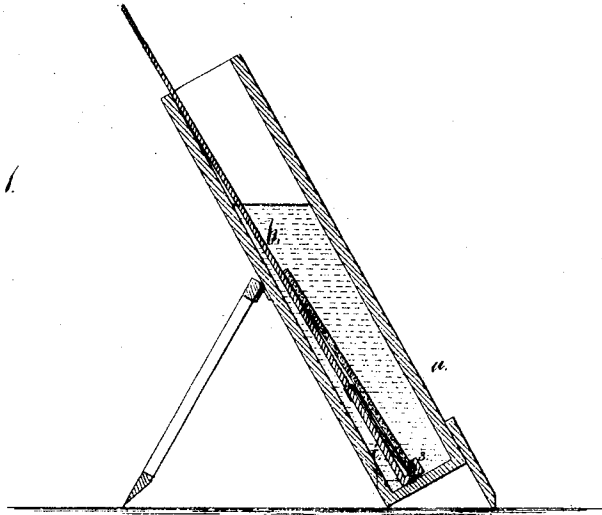
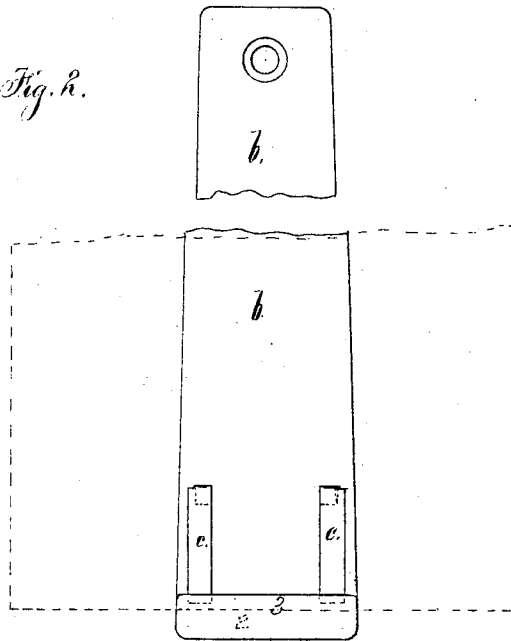


Fig. 2.



Witnesses

Chas. H. Smith

Geo. A. Walker

Daniel H. Cross

per L. W. Seirell atty.

United States Patent Office.

DANIEL H. CROSS, OF BENNINGTON, VERMONT.

Letters Patent No. 100,866, dated March 15, 1870.

PHOTOGRAPHIC-PLATE DIPPER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, DANIEL H. CROSS, of Bennington, in the county of Bennington, and State of Vermont, have invented and made an improvement in Photographic-Plate Holders, and the following is hereby declared to be a full and correct description thereof.

Photographic plates have to be immersed in a solution of nitrate of silver in the course of preparation, and heretofore a double hook has been employed for the glass plate to rest upon when inserted in said bath, so as to lift the plate out of the liquid.

It frequently happens that the plate slips off this holder as the holder and plate are introduced into or withdrawn from the bath. In such cases, the plate, falling to the bottom, stirs up the sediment, and sometimes the nitrate-of-silver solution is rendered unfit for use until filtered, in consequence of the agitation of the liquid in removing the plate; and, in most instances, the film of collodion is more or less injured.

My invention is made for the purpose of preventing the plate slipping in the holder, or falling out of the same, as inserted into or withdrawn from the nitrate-of-silver bath, said invention consisting in a spring clip, that grasps the bottom edge of the plate, and prevents the plate slipping. The weight of the plate rests upon the hook-shaped holder that passes below said plate, so that the spring clip has only to prevent the plate slipping.

In the drawing—

Figure 1 is a vertical section of a nitrate-of-silver bath, with my plate-holder and a plate introduced therein, and

Figure 2 is an elevation of the said holder, the glass being shown by dotted lines.

The bath *a* is to be of any usual or desired character, and does not require further description.

The plate-holder *b* is made with a ledge, 2, and lip or flange 3.

The spring clip *c* acts to press the plate against the flange 3, as said plate rests upon the ledge 2, and thereby the plate is clipped and held firmly for insertion into the bath, or withdrawn from it.

The springs *c* are shown as separate pieces of metal, fastened to the holder *b* near the lower end, but said springs may be of wood or formed as part of the handle of the plate-holder.

By this construction the plate can be very firmly grasped by this spring clip, and the risk of slipping in handling the plate is prevented.

I claim as my invention—

A plate-holder for photographic baths, fitted with the spring or springs *c*, when applied with the ledge 2 and flange 3 for the purposes specified.

Dated this 28th day of January, A. D. 1870.

DANIEL H. CROSS.

Witnesses:

JAMES B. MEACHAM,
JAS. A. N. WILLIAMS.