

J. W. Moore,

Photograph Plate Holder.

No. 104,054.

Patented June 7, 1870.

Fig. 1.

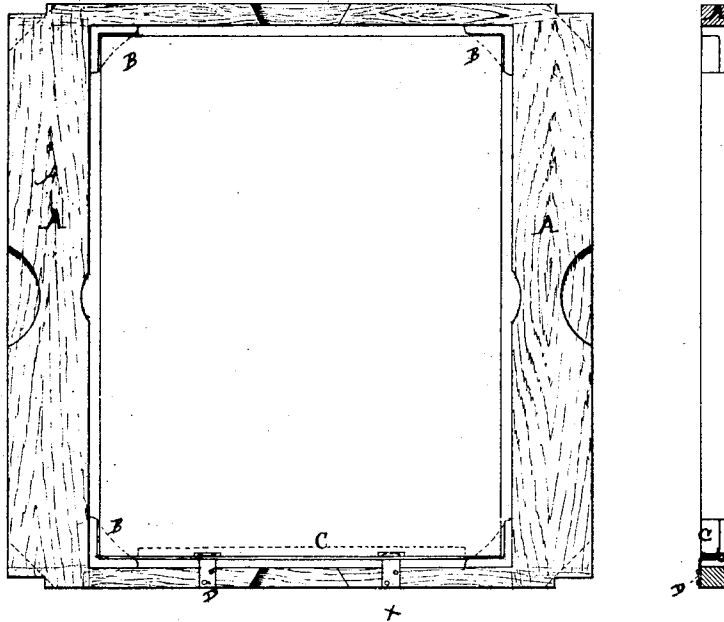


Fig. 2.

Fig. 4.

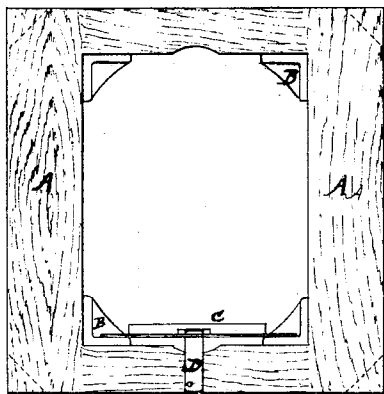


Fig. 5.

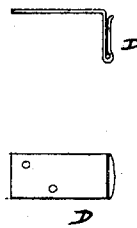


Fig. 6.

Witnesses:
Henry R. Walton.
Norris Peter

Inventor
John W. Moore

United States Patent Office.

JOHN WESLEY MOORE, OF BELLEFONTE, PENNSYLVANIA.

Letters Patent No. 104,054, dated June 7, 1870.

IMPROVEMENT IN PHOTOGRAPHIC-PLATE HOLDERS.

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

I, JOHN WESLEY MOORE, of Bellefonte, in the county of Centre and State of Pennsylvania, have invented an Improved Device for Absorbing the Surplus Silver Solution from Photographic Plates, and method of operating the same; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

The objects of my invention are as follows, viz.:

First, to secure more perfect photographic results.

Second, to avoid the loss of silver.

Third, to keep the plate-holder always in a good state of repair by avoiding the corrosive action of the nitrate of silver solution on the fibers of the wood.

In order to accomplish these objects, I employ an absorbent material of bibulous paper or other suitable substance, as shown at C, and place the same at the edge or edges of the bottom or sides, or both, of the plate-holder A, and secure the same there by means of spring or springs, as shown at D, said springs being made of silver or other suitable metal or substance not corroded by a solution of nitrate of silver.

My mode of applying the invention is as follows:

Before introducing the plate into the holder preparatory to exposing the same to the action of the light in the camera, I introduce one or more of the absorbents. If intended for a single exposure, one absorbent at the bottom is sufficient; but if for a reversible plate-holder, then as many as may be necessary to protect the bottom edges of every exposure.

Operation.

Ordinarily, upon the introduction of the plate, silver solution runs down, collecting in the corners, and, by capillary action, is drawn up on the plate again, carrying with it particles of reduced silver, dust, and foreign matter, occasioning numerous spots and many

times streaks, which not only mar the results, but frequently entirely spoil them. By the application of my invention the surplus solution is immediately absorbed and the above difficulties avoided, while, at the same time, the plate-holder is protected from the action of the surplus solution, and remains clear and always ready for use.

In addition, the surplus solution of nitrate of silver is all saved, and is important as a matter of economy, the whole arrangement being simple in its construction, mode of application, and of small expense.

In the drawing—

Figure 1 represents a plan view of a photographic plate holder with my improved device attached.

Figure 2 represents a similar view on a smaller scale.

Figure 3 represents a vertical section of the same, taken at $x x$, fig. 1.

Figure 4 represents the absorbent when ready for the holder.

Figure 5 represents an end and plan view of the springs.

Figure 6 represents a perspective view of the absorbent.

A represents the plate-holder.

B B are ledges or corners, on which the ends of the plate rest.

C is the absorbent, provided with holes $c c$ for the insertion of the spring or springs D D, which hold the absorbent in place in the holder. Said springs are made of silver or other suitable metal or substance not corroded by a solution of nitrate of silver.

What I claim as new, and desire to secure by Letters Patent, is—

The application of the absorbent to photographic-plate holders, in the manner herein set forth.

J. W. MOORE.

Witnesses:

HENRY R. WALTON,
N. PETERS.