Thompson & Wheaton,

Preparing Photographic Plates,

No. 29,418, Patented July 31, 1860.

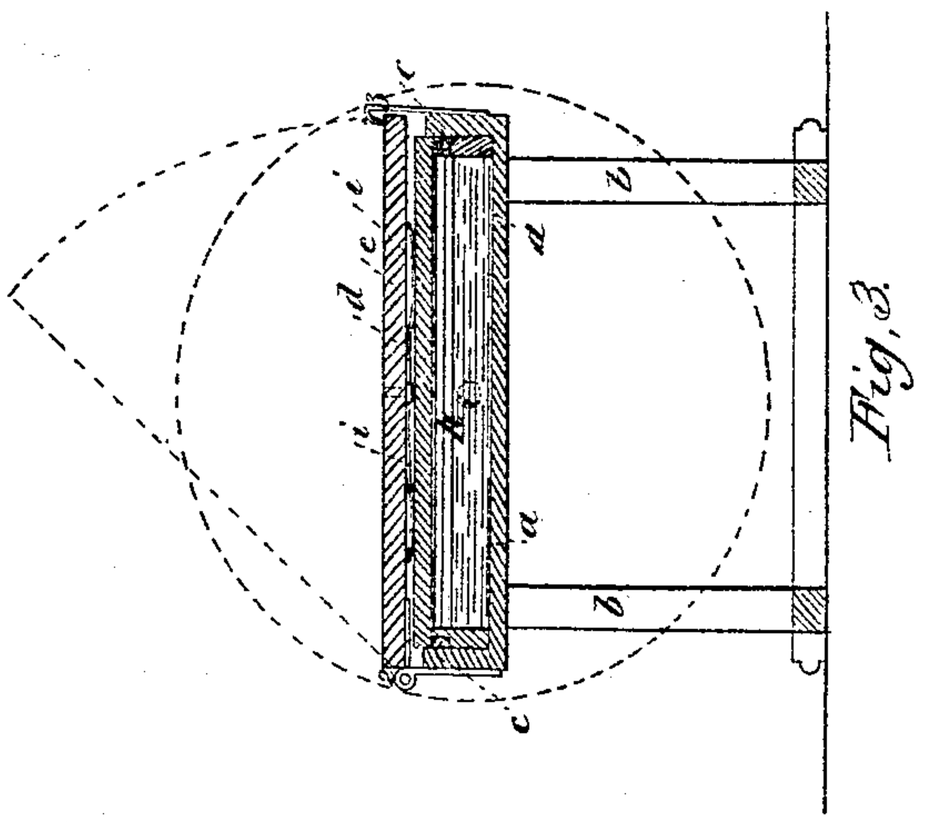

Fig. 3.

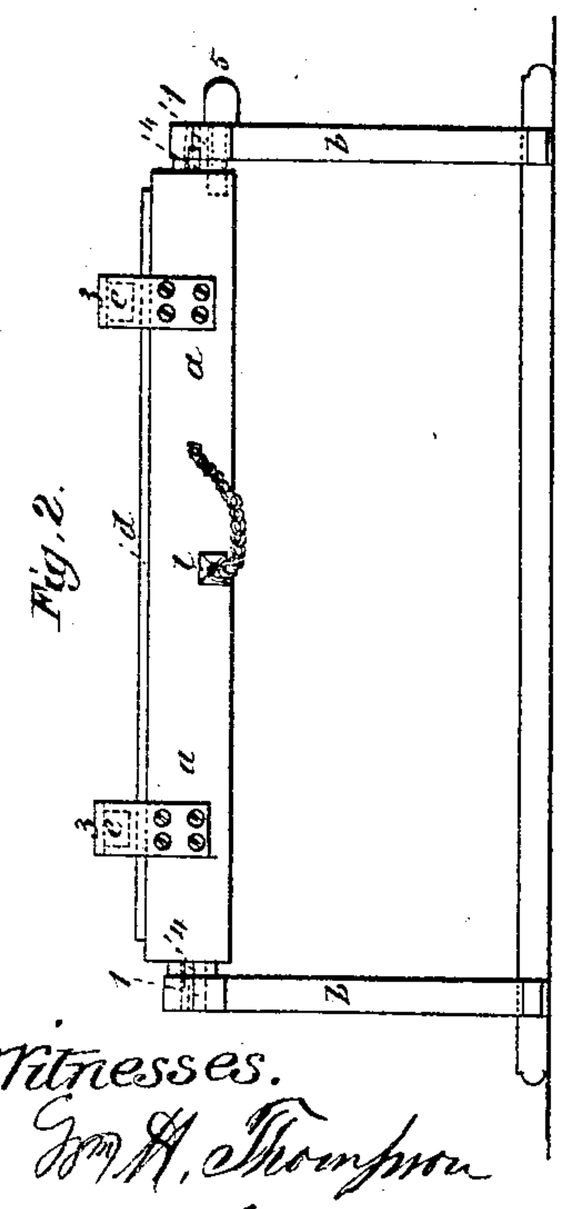

Fig. 2.

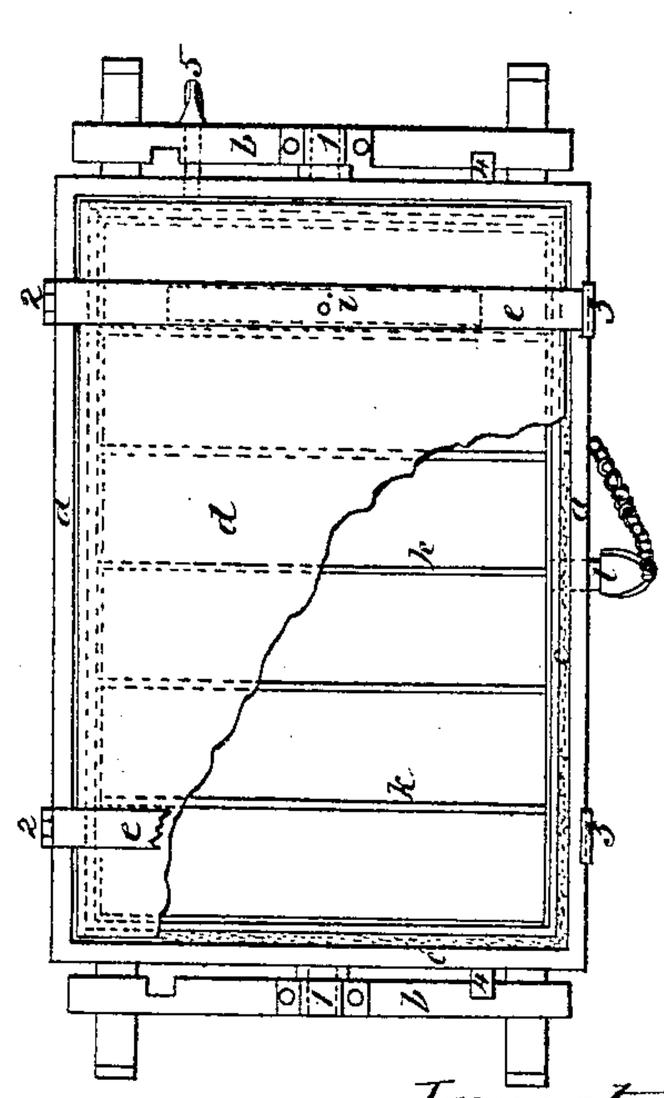

Fig. 1.

Witnesses.

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UNITED STATES PATENT OFFICE.

EDWIN C. THOMPSON AND MILES B. WHEATON, OF NEW YORK, N. Y.

BOX FOR SILVERING AND ALBUMINIZING PHOTOGRAPHIC PAPER.

Specification of Letters Patent No. 29,418, dated July 31, 1860.

To all whom it may concern:

Be it known that we, EDWIN C. THOMPSON and MILES B. WHEATON, of the city and State of New York, have invented, made, and applied to use an Improved Box for Silvering and Albuminizing Photographic Paper, &c.; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1, is a plan of our said box with part of the cover removed. Fig. 2, is a side elevation, and Fig. 3, is a cross section of said box.

Similar letters indicate the same parts.

The object of our invention is to invert the method heretofore pursued in silvering and albuminizing photographic paper, *i. e.*, to cause said albuminizing solution to rest upon the paper, instead of the paper floating upon such albuminizing solution as heretofore practiced, whereby the action upon the paper is more uniform and no difficulty arises from air bubbles intervening between the solution and the paper. The same may be said in regard to the silvering of the paper or coating any surface for photographic purposes with any liquid that may be required. In all instances our said box applies the liquid with great uniformity and prevents the cloudy or streaked appearance so usual, and which heretofore could only be avoided by the dexterity of the operator.

In the drawing *a*, is a box made of any suitable material and supported on the trunnions 1, 1, and frame *b*. This box may be lined with glass or other non-corrosive material, and is to be provided with a strip of rubber *c*. Around the box *d*, is a board onto which the paper is laid and turned downward into position shown in Figs. 1 and 3, by red lines; *e*, *e*, are clamping bars hinged at 2, 2, and retained at the other end beneath latch springs 3, 3, or similar device; *i*, *i*, are springs beneath the bars *e*, *e*, pressing down onto the board *d*, so as to cause a tight joint with the rubber *c*. The edges of the board *d*, may be ribbed or grooved so as to set more tightly against the rubber *c*. 4, 4, are pins projecting from the box *a*, and taking the frame *b*, and 5, is a spring bolt or pin inserted through the frame *b*, and entering a hole in the box *a*.

The material used for coating the paper is placed in box *a*, and the paper is either laid onto the cross slats *k*, *k*, or else attached to the cover *d*, and this cover is clamped tightly against the rubber *c*, by the board *d*, and bars *e*, *e*. The bolt 5, is then withdrawn and the box revolved on the trunnions 1, 1, the pins 4, 4, passing through slots in *b*, and coming up against the under side of the frame. This operation causes the albumin or silvering solution to flow across the paper and in fact the paper is turned under said solution. The box is then revolved back the pin or bolt 5 inserted the board *d* is removed the paper allowed to drain and the operation repeated. *l*, is a plug at which the solution may be withdrawn.

The advantages resulting from this mode of causing the silvering or coating solution to flow over the surface uniformly will be apparent, for all the difficulty experience in silvering or coating by hand are avoided and the picture is free from streaks and imperfections.

What we claim and desire to secure by Letters Patent is—

Silvering or albuminizing photographic paper by means of a box fitted so as to be revolved or inverted for the purposes and as set forth.

In witness whereof we have hereunto set our signatures this twenty-eight day of June, 1860.

EDWIN C. THOMPSON.
MILES B. WHEATON.

Witnesses:
B. I. BENZE,
WM. H. THOMPSON.