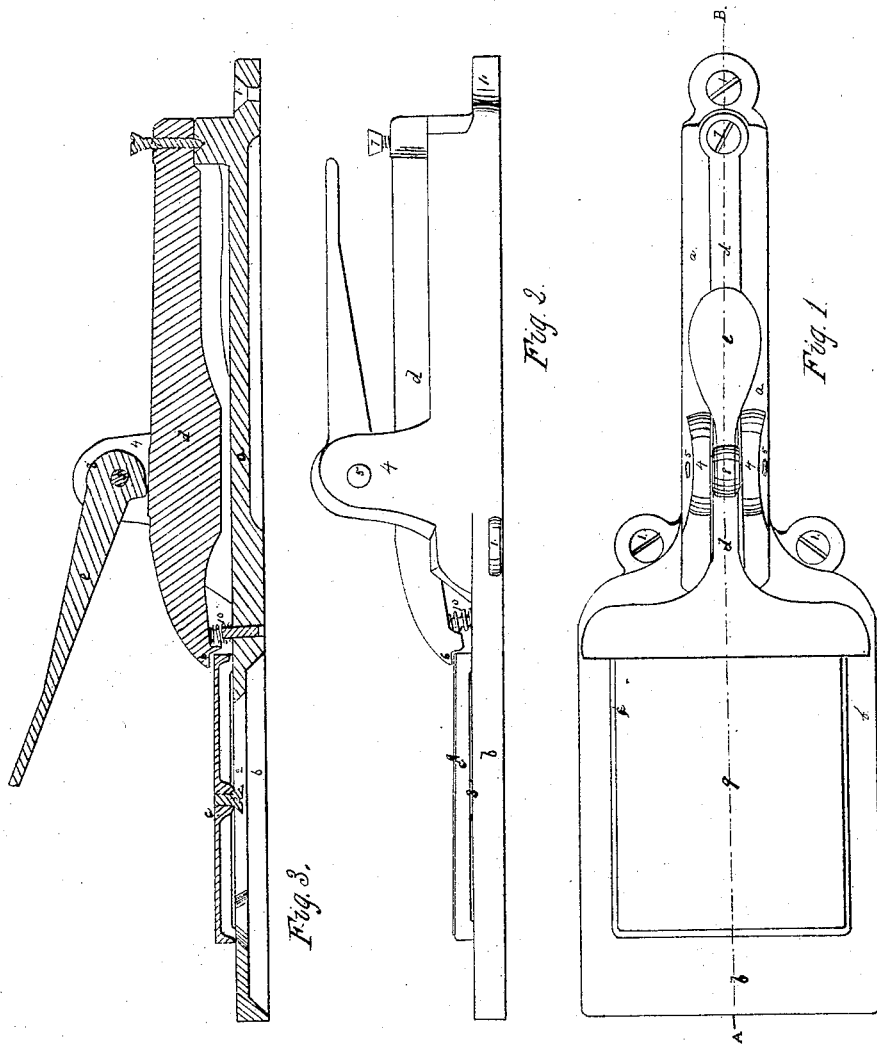


W. & W. H. Lewis,

Daguerreotype Apparatus,

No. 6,819.

Patented Oct. 23, 1849.



Witnesses.

W^m Serrell
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UNITED STATES PATENT OFFICE.

W. LEWIS AND W. H. LEWIS, OF NEW YORK, N. Y.

APPARATUS FOR HOLDING DAGUERRETYPE-PLATES.

Specification of Letters Patent No. 6,819, dated October 23, 1849.

To all whom it may concern:

Be it known that we, WILLIAM LEWIS and WILLIAM HENRY LEWIS, both of the city of New York, daguerreotype apparatus manufacturers, have invented and made and applied to use certain new and useful improvements in the means of securing the plates used in daguerreotype apparatus in place for the purpose of polishing them, such improvements consisting in so applying a horizontal vise to one end of the plate that it shall be firmly held in place for that purpose by mechanical means, for which we seek Letters Patent of the United States, and that the said improvements are constructively, operatively, and substantially set forth and shown in the following description and in the drawing annexed to and making part of this specification of our said improvements, in which—

Figure 1 is a plan, and Fig. 2 a side elevation of the apparatus completed, as in use; Fig. 3 is a sectional elevation, as through the line A, B, of Fig. 1, showing the parts, as when not in use.

Like letters and numbers, as marks of reference, apply to the same parts, in each of the several figures.

In these *a* is the metal stock piece, shown as to be secured on a bench, or table, by screws 1, 1, 1, and prolonged and spread out, to form a bed plate *b*, which is shown in Fig. 3, as having a slot 2, through the center, the outer end of the slot is enlarged, to pass the head of the screw 3, which passes into the under side of the changeable bearing plate *c*, this may be made larger than shown in the drawing, and cover the whole of the bed plate *b*, when used for polishing a larger plate, the center slot 2, serving for more than one size of bearing plates *c*; the stock piece *a*, is formed with a groove, to receive the jaw stock piece, *d*, which, at the outer end, is formed as a rabbeted jaw, or chop, 6, and on the side of the groove, two small standards 4, 4, receive, through them, a pin 5, that forms the fulcrum for a lever *e*, having a cam head 8, seen best in Fig. 3; a screw 7, goes through the tail end of the jaw stock *d*, into a cup, in a solid part of the stock piece *a*, to adjust the jaw stock *d*, for use; and a small helical expansive spring, 10, beneath the rabbeted jaw 6, lifts that

clear of the plate *c*, when not in use; and at this time, the lever *e*, and cam head 8 will generally be in the position shown in Fig. 3; and when the daguerreotype plate 9, see Figs. 1 and 2, is put in place to polish, and the lever *e*, thrown in the opposite direction, it will take the position, shown foreshortened in Fig. 1; but when the lever *e*, is depressed in the same direction, it will assume the position shown in Fig. 2, the cam 8, depressing the jaw stock *d*, spring 10, and chop 6, forces that down on the end of the plate 9, holding it firmly in place, until the polishing is effected; when the lever is turned back, to the position shown in Fig. 3, and the plate 9 is removed, for others to be successively put on, and held for polishing, in the same manner.

It will be seen, that if the screw 7, was placed between the standards 4, 4, so as to operate downward on the jaw stock, and the cam 8, with the lever *e*, placed at the tail end of the jaw stock, either beneath it, or in a fork at the end, nearly the same results will be obtained, by having the cam larger, on account of acting with the increased length of the jaw stock; but we do not recommend any such change, as it is not so convenient, in use, as when the cam is nearer the holding jaw 6, as we have described and shown it.

We do not claim to have invented a vise, for this or any similar purpose; nor do we claim to have invented any of the parts, herein described, as all are well known; but

We do claim as new, and of our own invention, and desire to secure by Letters Patent of the United States—

The application of the cam 8, acting to depress the rabbeted chop 6, on the plate 9, beneath, conjointly with the screw 7, to adjust the parts, for the purpose of holding plates, while polishing the same, substantially as described and shown.

In witness whereof, we have hereunto set our signatures, this twenty-first day of July, in the year one thousand eight hundred and forty-eight.

WILLM. LEWIS.
W. H. LEWIS.

Witnesses:

WM. TERRELL,
LEMUEL W. TERRELL.