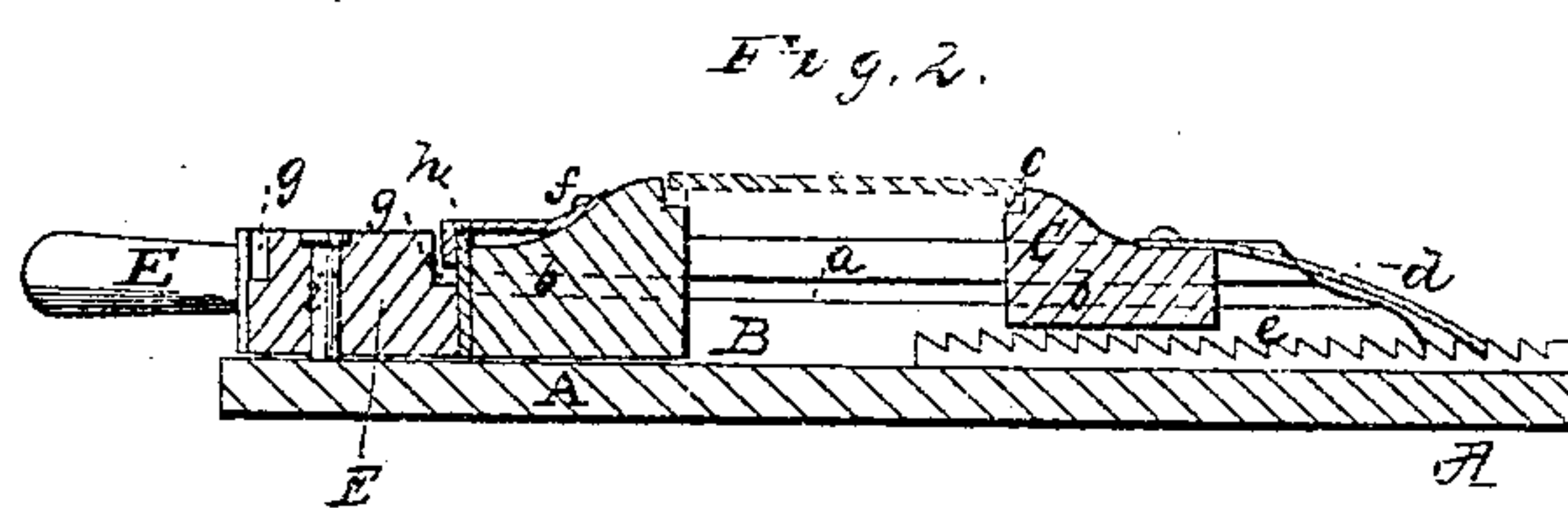
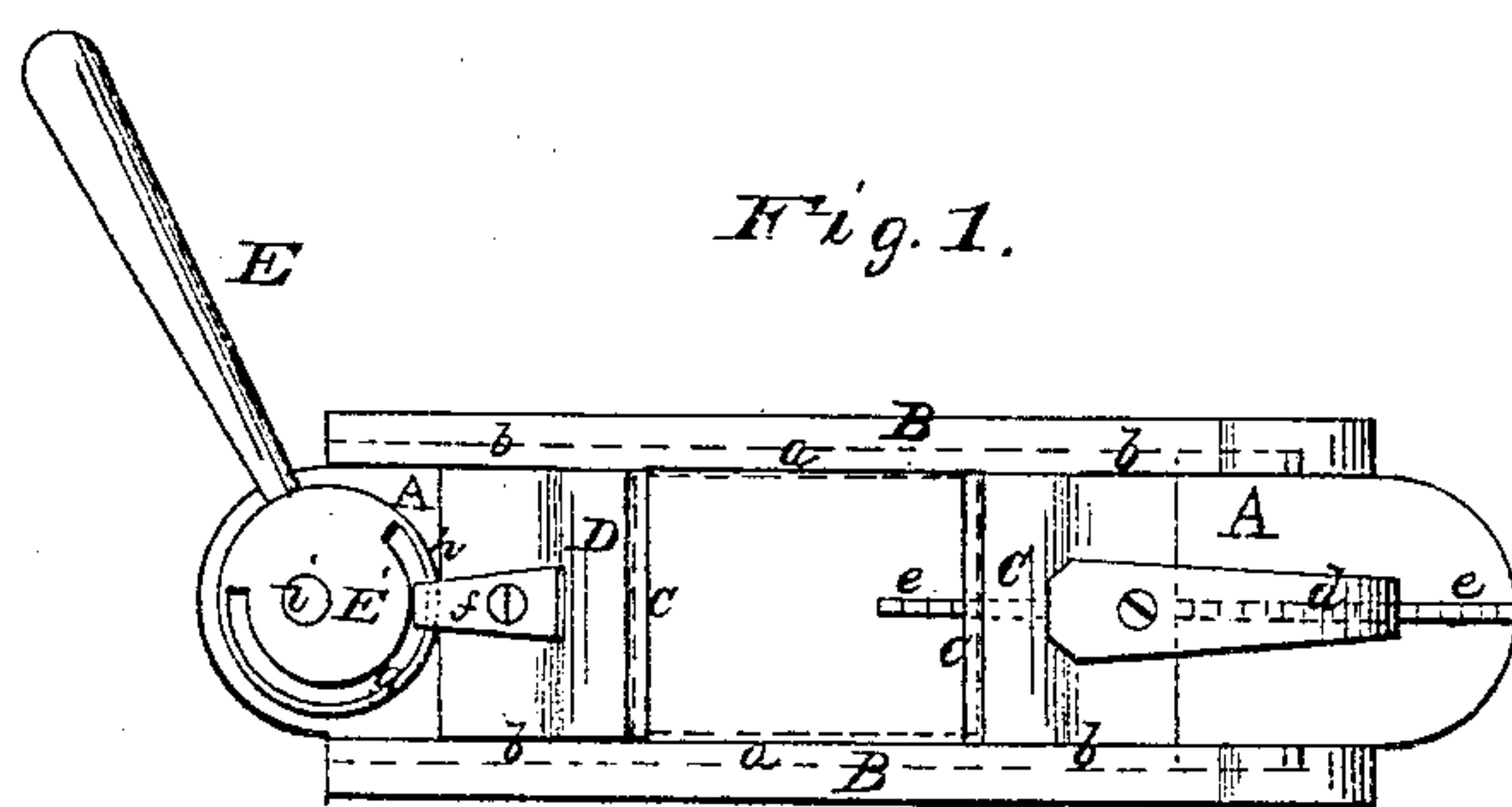


M. H. Rison,
Photographic-Plate Vise,
No. 22,748, Patented Jan. 25, 1859.



UNITED STATES PATENT OFFICE.

M. H. RISON, OF PARIS, TENNESSEE.

PHOTOGRAPHIC-PLATE VISE.

Specification of Letters Patent No. 22,748, dated January 25, 1859.

To all whom it may concern:

Be it known that I, M. H. RISON, of Paris, in the county of Henry and State of Tennessee, have invented a new and useful Improvement in Photographic-Plate Vises; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view of a photographic plate vise, with my improvement. Fig. 2 is a longitudinal central section of the same.

Similar letters of reference denote like parts in both figures.

This invention consists of an improved article of manufacture, viz: a photograph vise having its eccentric lever provided with a groove, a clamping jaw provided with a catch to engage the groove, another jaw provided with a spring pawl which engages with a rack, and otherwise constructed as hereinafter shown and described.

To enable others to make and use my invention, I will proceed to describe its construction and operation.

A, is the bedpiece of the vise, made of wood and having attached to it two side pieces B, B, which contain grooves *a, a*, in their inner faces to receive tongues *b, b*, formed on the sides of the two jaws C, and D, which are fitted to slide between the two side pieces B, B, and which contain rebates *c, c*, to receive opposite edges of the plate which is represented in red outline.

The jaw C, has attached to it the spring pawl *d*, which engages with the ratchet *e*, which is secured to the top of the bedpiece A.

The jaw D has attached to it the hooked catch *f*, which enters the groove *g*, in the eccentric lever E, E', which works on a fulcrum pin *i*, secured in the bedpiece. The groove is formed by making a recess in the upper part of the eccentric E', which with the handle E of the lever may be made of wood, and securing to said eccentric a plate *h*, which conforms to the circular periphery of the eccentric and constitutes a hook, as shown in Fig. 2, to attach the eccentric to the jaw D, of the catch *f*. The movement of

the jaw D, produced by the movement of the eccentric lever should be greater than the width of the notches of the ratchet *e*, and the periphery of the eccentric should have a bearing against the said jaw D.

The operation of the vise is as follows: The adjustable jaw C, should be moved to a position in which the pawl *d*, is in the nearest notch of the ratchet *e*, which will permit the plate to be received between the jaws C, D, while the clamping jaw D, is drawn as near as possible to the fulcrum of the eccentric lever by the hook *h*, of the said lever. The plate is then placed on the rabbets *c, c*, of the two jaws, and the lever turned in a direction to move the clamping jaw D, toward the plate till the latter is clamped tightly between the two jaws. In this condition the adjustable jaw is stopped by the pawl and ratchet while the eccentric is caused to retain its position and hold the clamping jaw as long as desired by the agency of its friction upon the said jaw. To release the plate, the lever is turned in the opposite direction that the hook *h*, by its action on the catch *f*, may draw the clamping jaw D, toward the fulcrum of the lever. To adapt the vise to plates of different sizes the adjustable jaw C, is moved to bring its pawl into a notch of the ratchet farther off or nearer to the clamping jaw.

I do not claim the use of an adjustable jaw and a clamping jaw, the former stopped by a pawl working in a ratchet in the bedpiece and the latter operated by an eccentric attached to the bedpiece. But

I claim and desire to secure by Letters Patent, as an improved article of manufacture:—

A photograph vise having its eccentric lever E, provided with a groove (*g*), a clamping jaw D, provided with a catch (*f*) to engage (*g*), a jaw C, provided with a spring pawl (*d*), which engages a rack (*e*), and otherwise constructed as herein shown and described.

M. H. RISON.

Witnesses:

JAMES G. WILLIAMS,
HARVEY E. ADEN.