

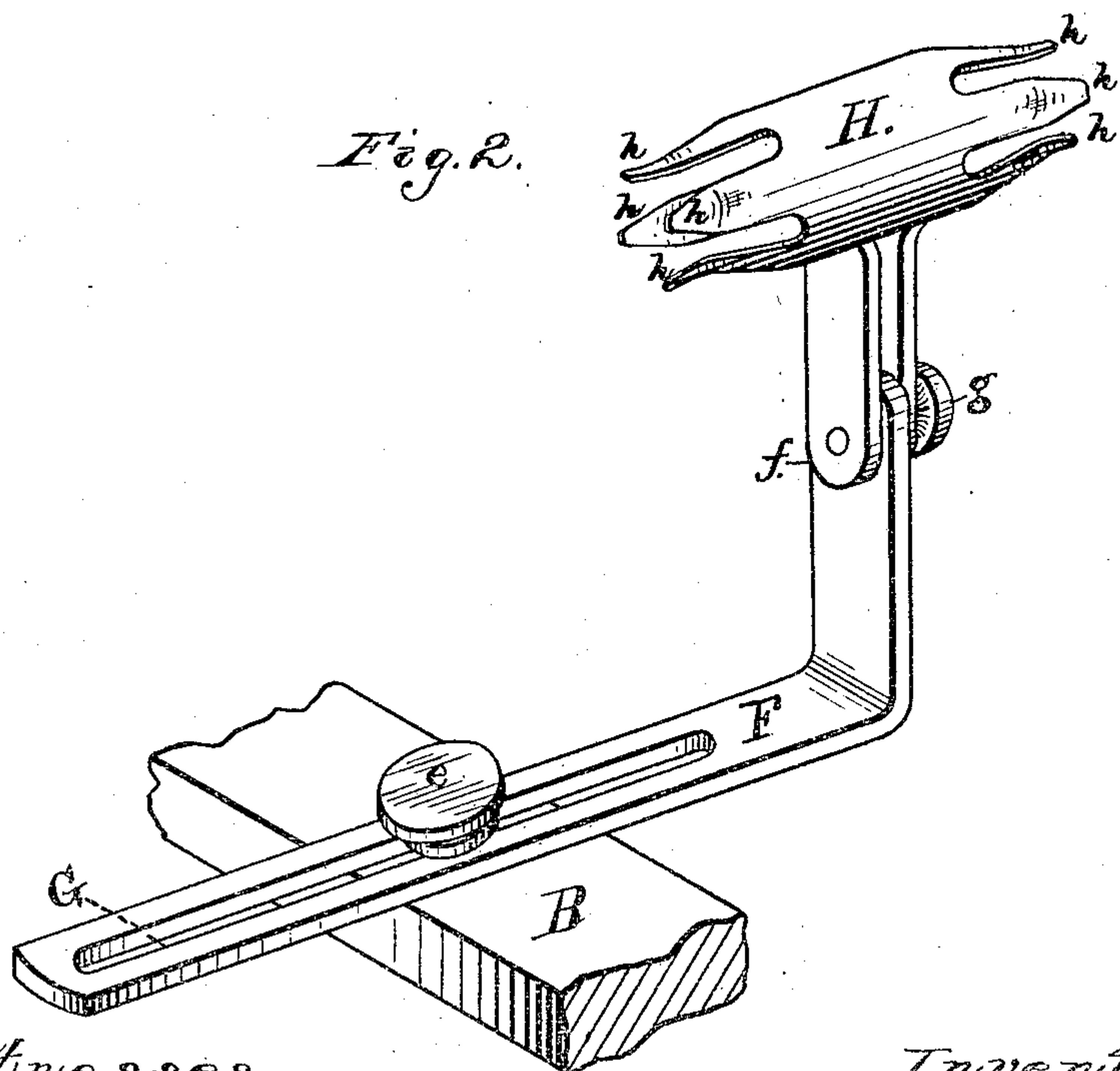
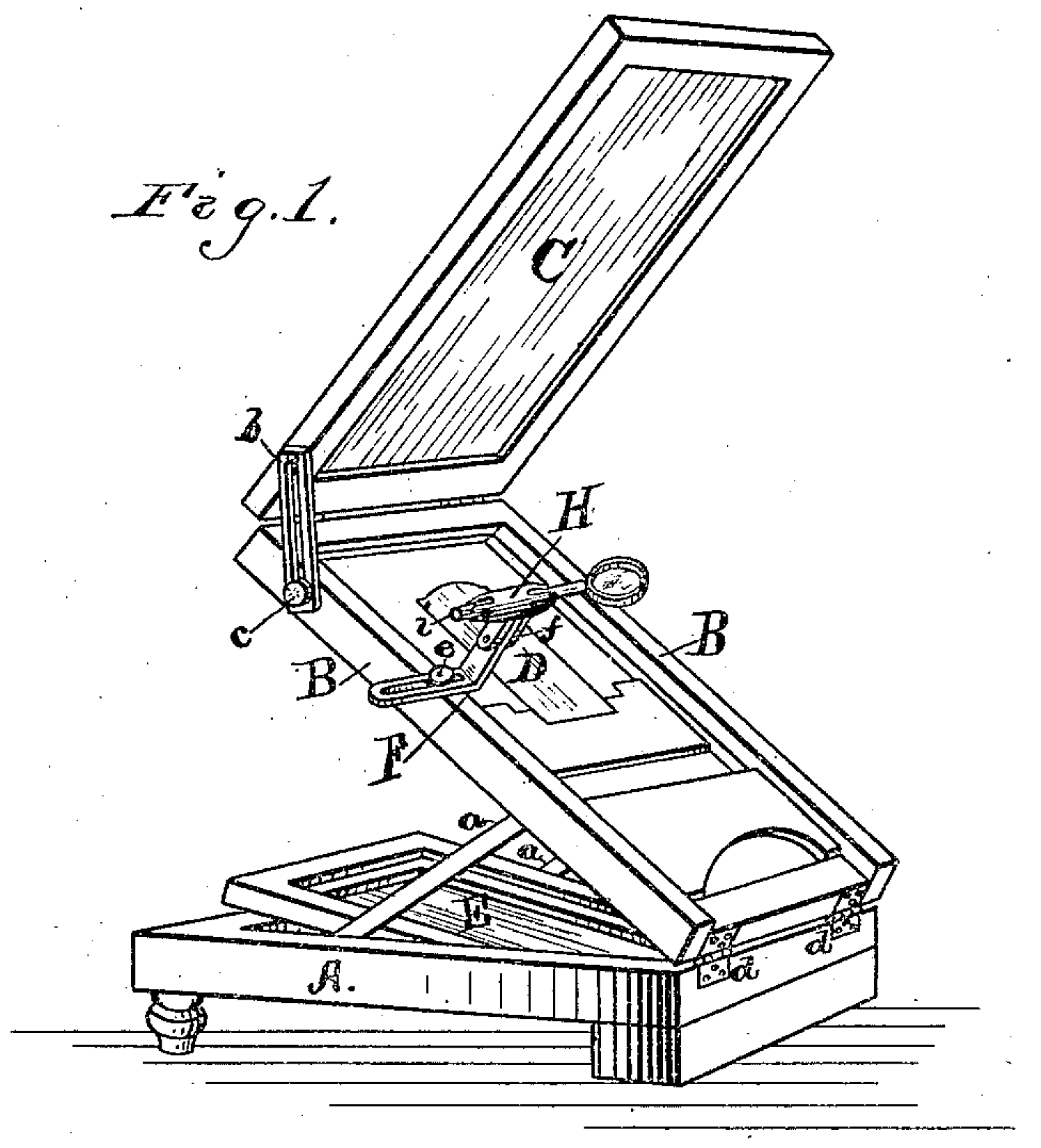
(No Model.)

E. ALLEN.

MAGNIFYING GLASS SUPPORT FOR RETOUCHING FRAMES.

No. 245,927.

Patented Aug. 23, 1881.



Witnesses,
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UNITED STATES PATENT OFFICE.

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MAGNIFYING-GLASS SUPPORT FOR RETOUCHING-FRAMES.

SPECIFICATION forming part of Letters Patent No. 245,927, dated August 23, 1881.

Application filed May 23, 1881. (No model.)

To all whom it may concern:

Be it known that I, Mrs. EMMA ALLEN, of the city of Freeport, in the county of Stephenson and State of Illinois, have invented a new and useful Improvement in Magnifying-Glass Supports for Retouching-Frames, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view of a retoucher's frame with my improved apparatus attached. Fig. 2 is an enlarged perspective view of my improved apparatus, showing the same separately.

Like letters refer to like parts in the respective figures.

The object of my invention is to so mount a magnifying-glass upon a photographer's retouching-frame that the same may be held in any desired position and adjusted from time to time to suit the focus of the glass and the convenience of the operator.

In Fig. 1, A represents the main portion or base of the retouching-frame, B B that part upon which the negative is placed, and C a movable shade adjusted by means of the slotted gage *b* and the thumb-screw *e*.

The part B B is attached to A by means of the hinges *d d*, and may be adjusted to any desired angle from a horizontal plane by means of the braces *a a*.

Within the frame B B is a glass, upon which is placed the negative to be retouched. A mirror, E, pivoted within the frame A, is made to reflect the rays of light upward through the negative D in the usual manner.

In order to do fine work in the retouching of negatives it is necessary to use a magnifying-glass, which it is very difficult to hold in the hand and maintain the proper focus. Moreover, without this additional burden the left hand and arm may be used to steady and support the body, and thus permit greater delicacy and accuracy of touch on the part of the operator.

My improved device enables this object to be accomplished.

F represents an arm, made preferably of brass or other suitable metal, with a longitudinal slot, G, formed to slide upon a bolt or screw fixed preferably upon the left side of the frame B, and adjusted thereto by means of a thumb-screw, *e*. At a convenient distance from the slot the arm F is bent upward at right angles, and the holder or support H, in which the handle of the magnifying-glass is inserted, is attached thereto by means of a joint, *f*, so that the holder H may be moved up or down to adjust the focus of the glass, and when the proper position is reached the same may be maintained by means of a set-screw, *g*, at the joint *f*.

The support or holder H consists of a piece of metal tubing adjusted at right angles to the upper extension of the arm F, and so cut or notched longitudinally that the ends may be bent toward its center, forming springs *h h h h*, which, when the handle of the magnifying-glass is inserted within the tube, press upon and hold the same in position, as shown in Fig. 1, *i* representing the handle of the glass K.

It will be seen that by loosening the thumb-screw *e* the arm F may be moved to the right or left, or in any direction required to bring the glass over that portion of the negative to be retouched, and tightening the thumb-screw maintains the same in that position, the handle always being in a horizontal plane. As the part B B is raised or lowered and its angle changed more or less from the plane of the horizontal the line of vision from the eye of the operator to the negative is changed in a corresponding degree. To adapt the glass to this change the holder H may be adjusted by loosening either or both of the thumb-screws *e g* and moving a portion or the whole of the arm, as desired; or the handle of the glass may be turned within the holder H to adapt it to the line of vision when the focus is already obtained and no lateral movement is required. Thus the operator is enabled to work with greater ease and exercise a higher degree of skill by the use of my improved apparatus than in the old way.

Having thus described my invention, what

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

The holder H, formed with the springs *h h*, to enable it to hold securely the handle of the magnifying-glass when inserted, in combination with the slotted arm F, to which said holder is jointed, the set-screw *g*, for securing the holder when adjusted on the arm, and the

set-screw *e*, for clamping and holding the arm itself, the whole adapted to be used in connection with a photographic retouching-frame, in the manner and for the purpose specified.
EMMA ALLEN.

Witnesses:

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