

J. E. RÖSCH.
PHOTOGRAPHIC VIGNETTER.

No. 562,977.

Patented June 30, 1896.

Fig. 1.

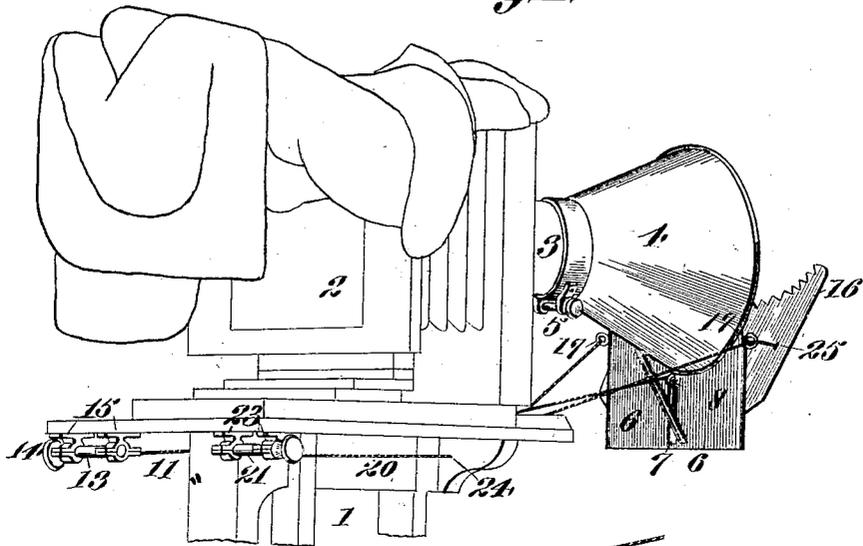
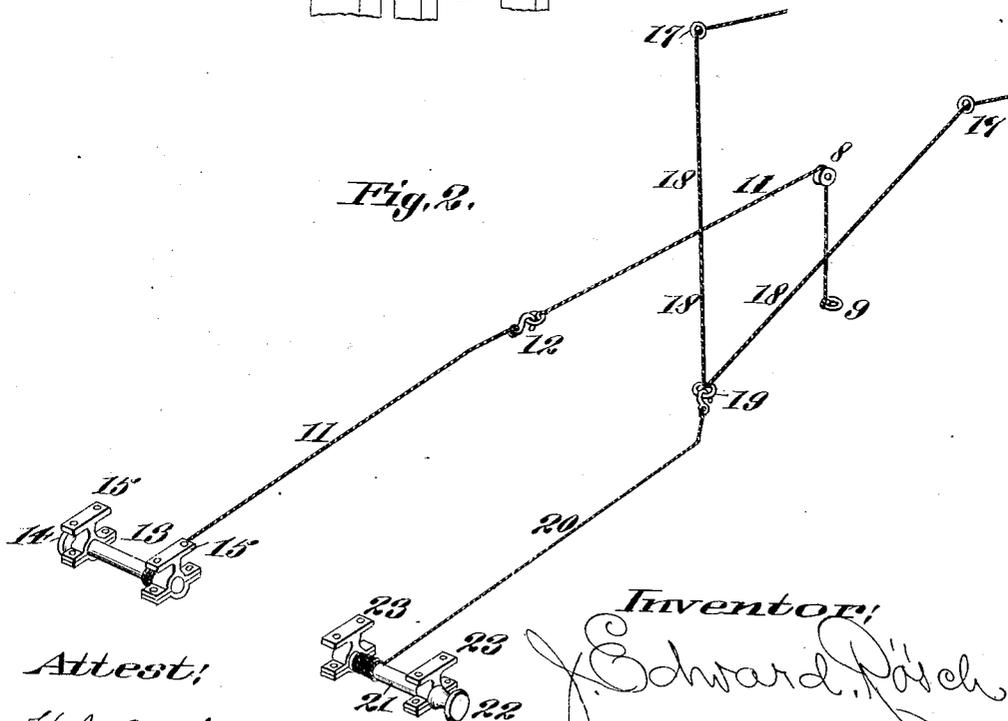


Fig. 2.



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Fig. 6.

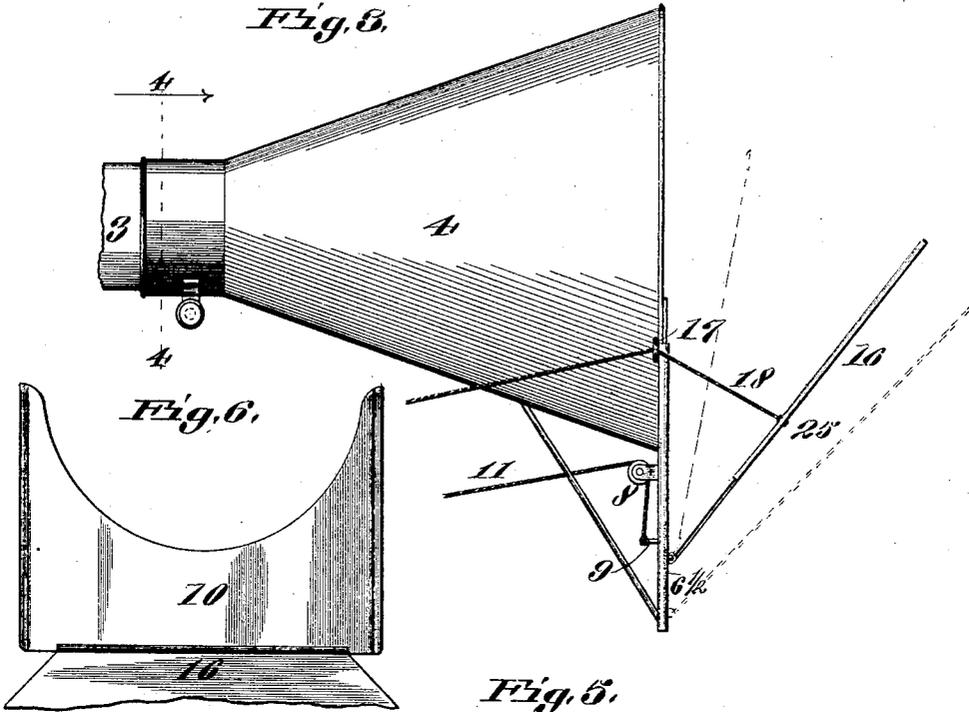


Fig. 6.

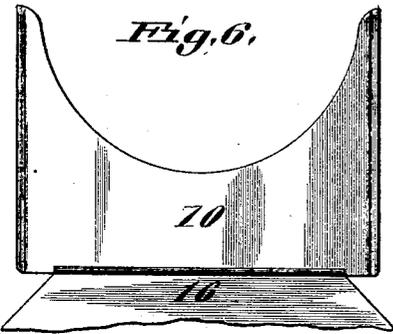
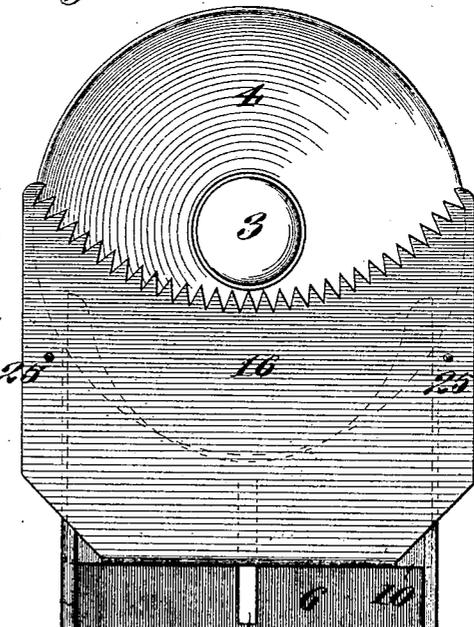
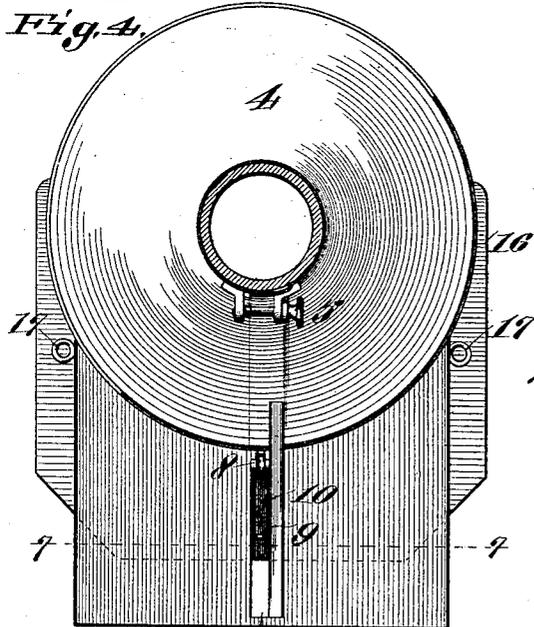


Fig. 5.

Fig. 4.



Attest, 6th Fig. 7, 7 6 6th Inventor
 H. J. Armstrong
 Geo. R. Wagner
 Edward Rösch

UNITED STATES PATENT OFFICE.

JACOB EDWARD RÖSCH, OF ST. LOUIS, MISSOURI.

PHOTOGRAPHIC VIGNETTER.

SPECIFICATION forming part of Letters Patent No. 562,977, dated June 30, 1896.

Application filed May 20, 1895. Serial No. 549,974. (No model.)

To all whom it may concern:

Be it known that I, JACOB EDWARD RÖSCH, a citizen of the United States, residing in St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Photographic Vignettters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of the specification.

The invention is intended to facilitate the operation of vignetting negatives under a skylight of a photographic gallery, and is especially adapted to overcome the tendency of the old method, which was accomplished by means of a curtain attached by a lever fastened to a common photographic head-rest standing on the floor directly in front of the camera, being most inconvenient to the operator under the skylight.

The improvement which I claim in my invention is the simplicity and convenience with which my device is operated, being at all times in readiness to be used, there being no necessity of transporting the curtain or vignetter from place to place, as was necessary in the old method.

The various features of the invention are illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the device clamped to the lens-tube. Fig. 2 is a perspective view showing the operating-cords and coiling-spindles. Fig. 3 is a detail side view of conical hood and curtain. Fig. 4 is a vertical transverse section on line 4 4 of Fig. 3, looking in direction of arrow. Fig. 5 is an end elevation of the device; Fig. 6, a detail view of slide, showing the position of curtain when not in use; and Fig. 7 is a horizontal section on line 7 7, Fig. 4.

Referring in detail to the drawings, 1 is a camera-stand of the usual construction surmounted by a cap upon which rests the camera 2. Projecting from the end of the camera is the lens-tube 3, to which is clamped, by means of the screw 5, the hood 4, the lower

side of which is open to admit of expansion for removal and contraction for retention in place when the two sides are drawn together by means of screw 5. To exclude the light from the interior hood, I lap the joint at the lower side, as shown in Fig. 4.

Attached to the outer end of the hood is a pendant 6, having the inturned lips $6\frac{1}{2}$, which serve as guides for the slide 10, to which is pivoted the curtain 16, whose upper end is serrated, as shown in Fig. 5. At the center of the pendant is a slot 7, through which projects an eye 9, secured to the slide, to which eye is attached the cord or chain 11. At the upper end of the slot 7, and secured to the pendant, is a bracket in which is journaled the pulley 8, over which the cord or chain 11 passes.

The cord or chain 11 is made in two sections and united by means of the hook and ring 12, the ring being attached to the section secured to the slide, and the hook to the section secured to the winding-spindle 13, which is tightly journaled in the hangers 15, secured to the under side of the cap on camera-stand.

14 is a thumb-piece by which the winding-spindle is rotated.

16 is the curtain pivoted at its lower end to the vertical slide 10. To each side of said curtain, at 25, are secured cords or chains 18, passing through the eyes 17 17, secured to the pendant 6 and united to a ring forming one portion of the joint 19. The section 20 is provided with a hook to engage the ring of the joint 19, and its opposite end is secured to the winding-spindle 21, journaled in the hangers 23, secured to the surmounting cap of stand. 22 is a thumb-piece by which the winding-spindle is operated in either direction.

To operate the vignetter and blender and to elevate the slide, the cord or chain 11 is wound on the spindle 13 by turning the thumb-piece 14, the friction of the brackets upon the spindle being sufficient to retain the slide 10 at any decided elevation, the cord or chain passing freely over the pulley 8 and down to the eye 9, attached to the slide 10, so which ever way the spindle is rotated the slide will respond.

The curtain 16 is operated in like manner by its spindle 21 to give the desired angle, as indicated by the dotted lines, Fig. 3.

When the vignetter or blender is not in use, the sections of the cords or chains 18 are disconnected, allowing the slide and curtain to drop below the opening in end of hood out of line of lens.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a vignetting and blending apparatus a hood adapted to be secured to the lens-tube by means of a clamp-screw, a pendant secured to the hood, a slide operating on said pendant and a curtain pivoted to said slide, and means for operating the slide and curtain independent of each other.

2. In a vignetting and blending apparatus a hood adapted to be adjustably secured to the lens-tube of the camera, a pendant secured to the hood having a slot, in which moves an eye attached to a slide to which is pivoted a curtain, substantially as described.

3. In a vignetting and blending apparatus adapted to be adjustably secured to a lens-tube and consisting of a hood, having a pendant to which is secured a pulley, a slide on said pendant, a curtain on said slide, a cord or chain attached to said slide, and a spindle around which said cord or chain is wound, substantially as shown and described.

4. In a vignetting and blending apparatus consisting of a hood adapted to be adjustably secured to the lens-tube of a camera, a pendant on said hood, a curtain adjustable on said pendant, and means for operating said curtain, consisting of cords or chains secured thereto and to a winding-spindle, substantially as shown and described.

5. In a vignetting and blending apparatus adapted to be adjustably secured to the lens-tube of a camera consisting of a hood, a slide adjustable on said hood, and means for operating same, a curtain on said slide and means for operating same, and winding-spindles around which are coiled the operating cords or chains for the curtain and slide, substantially as described.

6. A vignetting and blending apparatus consisting of a lens-tube of a camera, to which is adjustably secured a hood having a pendant, a slide to which is pivoted a curtain and means for operating said curtain and slide, consisting of cords or chains loosely connected together and spindles whereby said cords or chains are operated, substantially as shown and described herein.

In testimony whereof I affix my signature in the presence of two witnesses.

J. EDWARD RÖSCH.

Witnesses:

H. J. ARMBRUSTER,
GEO. C. R. WAGONER.