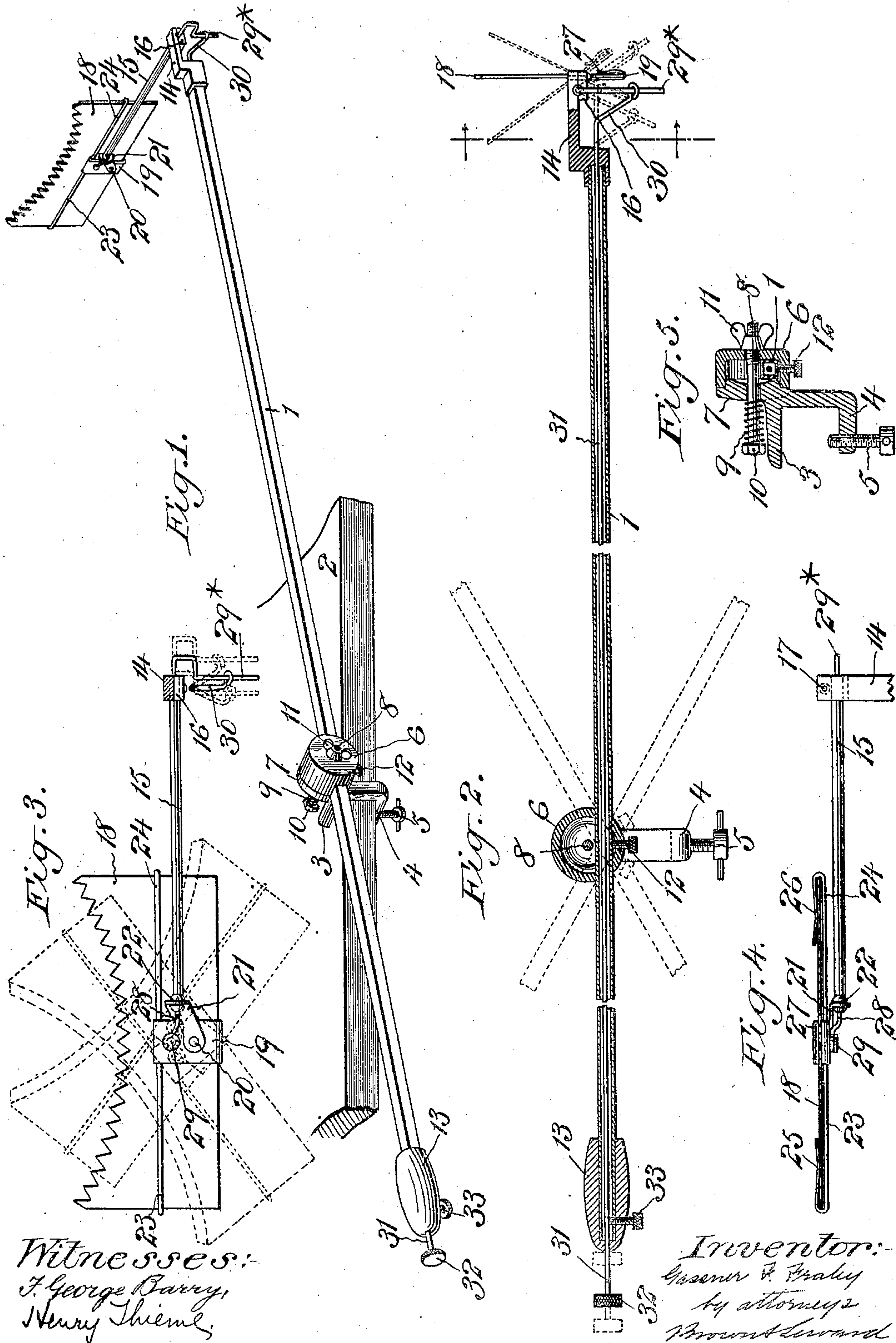


No. 837,048.

PATENTED NOV. 27, 1906.

G. F. FRALEY.
PHOTOGRAPHIC VIGNETTER.
APPLICATION FILED MAY 17, 1906.



Witnesses:
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UNITED STATES PATENT OFFICE.

GASSNER F. FRALEY, OF NEW YORK, N. Y.

PHOTOGRAPHIC VIGNETTER.

No. 837,048.

Specification of Letters Patent.

Patented Nov. 27, 1906.

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To all whom it may concern:

Be it known that I, GASSNER F. FRALEY, a citizen of the United States, and a resident of the borough of Manhattan, in the city and State of New York, have invented a new and useful Improvement in Vignettters, of which the following is a specification.

The object of this present invention is to provide certain improvements in the construction, form, and arrangement of the several parts of a photographic vignetter whereby the vignetter-card may be rapidly and accurately adjusted into the proper position with respect to the camera-lens.

A practical embodiment of the invention is represented in the accompanying drawings, in which—

Figure 1 represents the vignetter in perspective attached to the camera table or stand as in use. Fig. 2 is a longitudinal central section through the vignetter, the same being shown in full lines in one of its adjustments and in dotted lines in several other of its adjustments. Fig. 3 is a transverse section looking toward the vignetter-card, the card being shown in one of its adjustments in full lines and in two of its other adjustments in dotted lines. Fig. 4 is a top plan view of the card and its adjacent parts, and Fig. 5 is a detail section through the means for clamping the longitudinal vignetter-bar to the table or stand in different longitudinal and angular positions.

The longitudinal vignetter-bar 1 is tubular and has an angular periphery in cross-section, so as to prevent the bar from turning in its clamp. The device for attaching the vignetter-bar in different longitudinal and angular adjustments to the camera table or stand 2 is constructed as follows: One jaw 3 of the device is arranged to rest upon the top of the table. The other jaw 4 extends beneath the table, which jaw has a clamping-screw 5 for securing the device to the table.

The vignetter-bar 1 extends through a rotary member 6 of a friction-clutch the stationary member 7 of which in the present instance forms an integral part of the clamp. This rotary member 6 is held in frictional engagement with the stationary member 7 by means of a screw-bolt 8, which passes centrally through the rotary and stationary members, and it is provided with a tension-spring 9 between its head 10 and the outer face of the stationary member 7. A thumb-nut 11 engages the threaded end of the bolt 8

exterior to the rotary member 6, so that the amount of friction between the two members may be accurately adjusted for holding the vignetter-bar 1 in its different angular positions. The bar 1 may be clamped in its different longitudinal adjustments by means of a thumb-screw 12, carried by the rotary member 6 and arranged to engage the bar 1 between its two bearing-points in the walls of the rotary member 6. This hollow bar 1 is provided at its inner end with a suitable handle 13. The outer end of this bar is provided with an offset portion 14, to which a laterally-extended tubular arm 15 is rigidly secured by means of a block 16 and screw 17.

The vignetter-card is denoted by 18, and it is removably secured in a holder 19, pivoted to swing laterally at 20 to a bracket 21, swiveled at 22 to swing longitudinally on the fixed laterally-extended tubular arm 15. This card-holder 19 is provided with laterally-extended branches 23 24, provided with hooks 25 26, arranged to receive and clamp the sides of the card when the bottom of the card rests in the hooked portion 27 of the holder 19. These hooks 25 26 of the arms 23 24 of the holder engage the card 18 with sufficient friction to prevent its being displaced as it is rocked laterally and longitudinally into the angular positions with respect to the lens of the camera. These lateral and longitudinal angular adjustments of the card are obtained through a cross-rod 28, pivoted at 29 to the holder 19 above the pivot 20, which rod passes through the tubular arm 15 and is provided with a depending arm 29*, which is engaged by the laterally-extended arm 30 of the sliding and rocking rod 31, which extends through the tubular bar 1. This longitudinal rod 31 is provided at the rear of the handle 13 with an operating-handle 32, and it is locked in its different longitudinal and rocking adjustments by means of a thumb-screw 33, located at the rear end of the bar 1.

From the above description it will be seen that the tubular bar 1 may be adjusted longitudinally to bring the card 18 at the desired distance from the camera-lens. It may be then clamped in such longitudinal adjustment by the thumb-screw 12. The vignetter-bar 1 may then be rocked into the desired angular position to bring the card to the proper height with respect to the camera-lens. It is intended that the friction between the members 6 and 7 will be sufficient to hold the vignetter-bar in its proper angular adjustment.

The handle 32 of the card-operating rod 31 may then be manipulated by sliding it longitudinally and turning it to rock the vignetter-card 18 laterally and longitudinally until it is brought into the exact angular position with respect to the camera-lens to produce the result desired. The rod 31 may then be clamped in position by means of the thumb-screw 33.

10 The friction-clamp permits the vignetter to be swung out of the field of the camera when not in use.

What I claim is—

1. A vignetter comprising a tubular bar, a 15 laterally-extended tubular arm, a bracket swiveled on said arm, a card-holder pivoted on the bracket and means for swinging the card-holder in longitudinal and lateral planes comprising connected rods extended through 20 the tubular bar and tubular arm.

2. A vignetter comprising a tubular bar adjustable longitudinally, a laterally-extended tubular arm, a bracket swiveled on said arm, a card-holder pivoted on the bracket 25 and means for swinging the card-holder in longitudinal and lateral planes comprising connected rods extended through the tubular bar and tubular arm.

3. A vignetter comprising a tubular bar 30 adjustable angularly, a laterally-extended tubular arm, a bracket swiveled on said arm, a card-holder pivoted on the bracket and means for swinging the card-holder in longitudinal and lateral planes comprising connected rods extended through the tubular 35 bar and tubular arm.

4. A vignetter comprising a tubular bar adjustable longitudinally and angularly, a 40 laterally-extended tubular arm, a bracket swiveled on said arm, a card-holder pivoted on the bracket and means for swinging the

card-holder in longitudinal and lateral planes comprising connected rods extended through the tubular bar and tubular arm.

5. A vignetter comprising a tubular bar, a 45 laterally-extended tubular arm, a bracket swiveled on said arm, a card-holder pivoted on the bracket, a rod extended through the tubular arm and having one end pivoted to the card-holder and a rod extended through 50 the tubular bar engaging the first-named rod for rocking it and moving it lengthwise for swinging the card-holder in longitudinal and lateral planes.

6. A vignetter comprising a tubular bar, a 55 laterally-extended tubular arm, a bracket swiveled on said arm, a card-holder pivoted on the bracket, a rod extended through the tubular arm and having one end pivoted to the card-holder, a rod extended through the 60 tubular bar engaging the first-named rod for rocking it and moving it lengthwise for swinging the card-holder in longitudinal and lateral planes and means for locking the rod in the tubular bar in its different adjustments. 65

7. The combination with a vignetter-bar, of means for adjusting it longitudinally and angularly comprising a friction-clutch the stationary member of which forms part of a clamp and the movable member through 70 which the bar extends having a spring-pressed engagement with the stationary member.

In testimony that I claim the foregoing as my invention I have signed my name, in pres- 75 ence of two witnesses, this 16th day of May, 1906.

GASSNER F. FRALEY.

Witnesses:

HENRY THIEME,
FREDK. HAYNES.