(No Model.)

H. L. HULTGREN.

PHOTOGRAPHIC VIGNETTER.

No. 515,080. Patented Feb. 20, 1894.

Fig. 1.

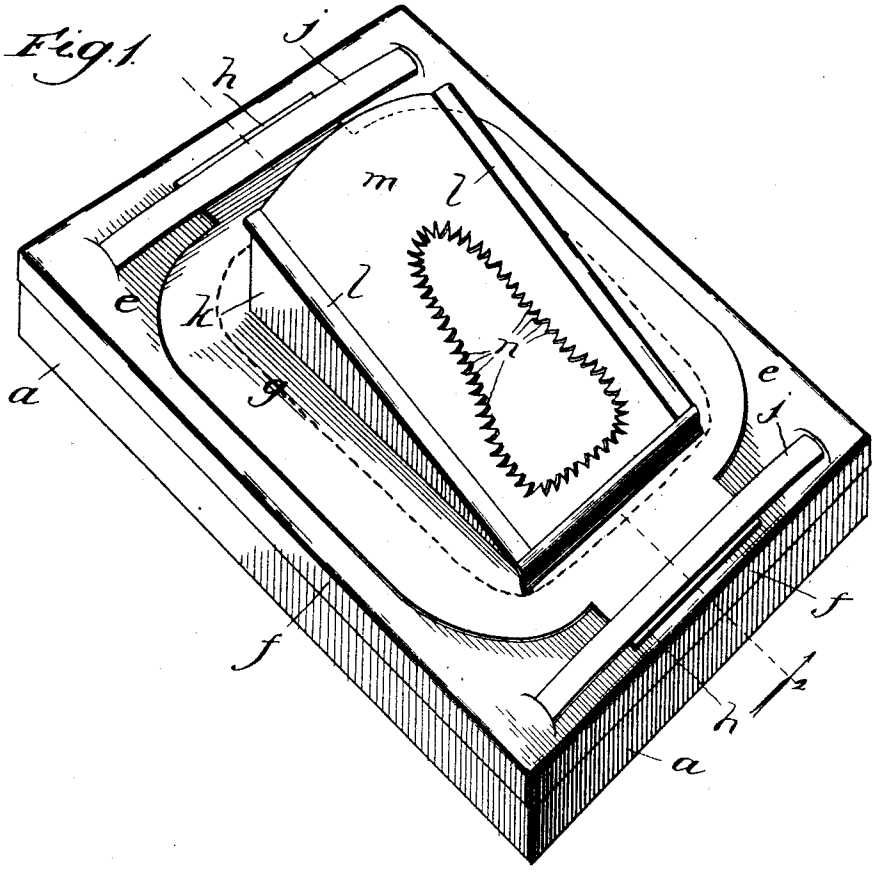
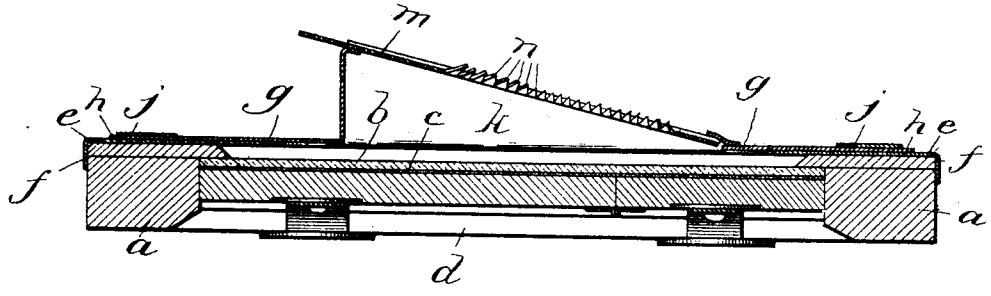


Fig. 2.



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PHOTOGRAPHIC VIGNETTER.

SPECIFICATION forming part of Letters Patent No. 515,080, dated February 20, 1894.

Application filed June 13, 1893. Serial No. 477,503. (No model.)

To all whom it may concern:

Be it known that I, HEMMING L. HULTGREN, of Chicago, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Photographic Vignetters, 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 corresponding letters of reference in the different figures indicate like parts.

The object of my invention is to so construct a photographic vignetter that it may be readily and easily adjusted to any desired position over the negative so as to secure the proper blending upon the photographic print. Moreover I desire to so construct the same that it may be easily attached to a printing frame without injury to the latter; all of which is hereinafter more particularly described and definitely pointed out in the claims.

In the drawings Figure 1 represents a perspective view of my improved vignetter as it appears when attached to a printing frame, and Fig. 2 is a perspective view thereof taken upon the line 2 Fig. 1, viewed in the direction of the arrow there shown.

Referring to the drawings *a* represents the usual photographic printing frame having the negative *b* and sensitized paper *c* therein in position for printing as shown in Fig. 2, said paper and negative being sustained by means of the removable back *d* of any well known form of construction. Placed over the frame is a sheet metal cover *e* having a flange *f* around its outer edge adapted to inclose a portion of the frame and thus hold said cover securely in position, the friction of said flange being sufficient for this purpose. The cover *e* is provided with an opening in the top as shown in Fig. 2 and indicated in dotted lines in Fig. 1, which is considerably larger than the outlines of any portrait that would be printed in the frame to which it is applied. Above the opening in the cover *e* I place a plate *g* preferably made of sheet metal, which is enough larger in area than said opening to enable it to be moved laterally, longitudinally or diagonally without exposing the opening in said cover. Said plate is provided with extensions *h*, *h*, preferably upon its ends which are inserted beneath sheet metal strips *j*, *j* soldered or otherwise secured at their respective ends to the cover *e*, substantially as shown.

The strips *j*, *j* are intended to have sufficient elasticity and should be so arranged as to exert a pressure upon the extensions *h*, *h* thereby enabling the plate *g* to be moved in any desired direction by the user and to retain its position with respect to the cover *e* by reason of the frictional contact exerted upon said extensions *h*, *h*.

Upon the plate *g* is formed a frame work *k* the top of which is open and inclined as shown. Over the upper edges of said frame work are formed flanges *l*, *l* beneath which are grooves for the reception of a sliding removable plate *m* which is provided with an opening as shown having the usual serrated edges *n*, which plate is intended to serve as a vignetter in the usual way.

Different plates having larger or smaller openings according to the size of the portrait to be printed may be employed and changed at will.

The manner of operating said device is as follows: As the operator watches the progress of the printing if he sees that the outlines of the background are too sharp or that it is not properly blended or the shadows not properly distributed, he moves the plate *g* toward the top or bottom, to the right or left or diagonally as he may see fit in order that the light may act where he wishes to have it and that the proper blending may be obtained. It is obvious that with my improved device the light may be shifted and the effects varied to any desired extent so that perfect blending may be insured and the most artistic results obtained.

Having thus described my invention, I claim—

1. A photographic vignetter, consisting of the cover *e* having an enlarged opening therein, strips *j j* secured thereto at or near the respective ends, plate *g* having the narrow extensions or tongues *h h* at its ends adapted to extend beneath said strips, inclined frame *k* attached to the plate *g* and surrounding an

opening therein, and the removable vignetter *m n* adapted to slide in grooves formed upon the inclined frame *k*, all arranged and combined substantially as described and shown.

2. The combination with a photographic printing frame, of the flanged cover *e* having an opening therein, plate *g* superimposed upon said cover, the main body of said plate being shorter than said cover and provided with the tongue like extensions *h h* at the respective ends, cross-strips *j j* adapted to engage said extensions by frictional contact, inclined frame *k* rigidly attached to the plate *g* and surrounding an opening therein, and the vignetter *m n*, the whole being arranged and constructed substantially as described.

In testimony whereof I have signed this specification, in the presence of two subscribing witnesses, this 26th day of May, 1893.

HEMMING L. HULTGREN.

Witnesses:
D. H. FLETCHER,
E. C. FLETCHER.