

(No Model.)

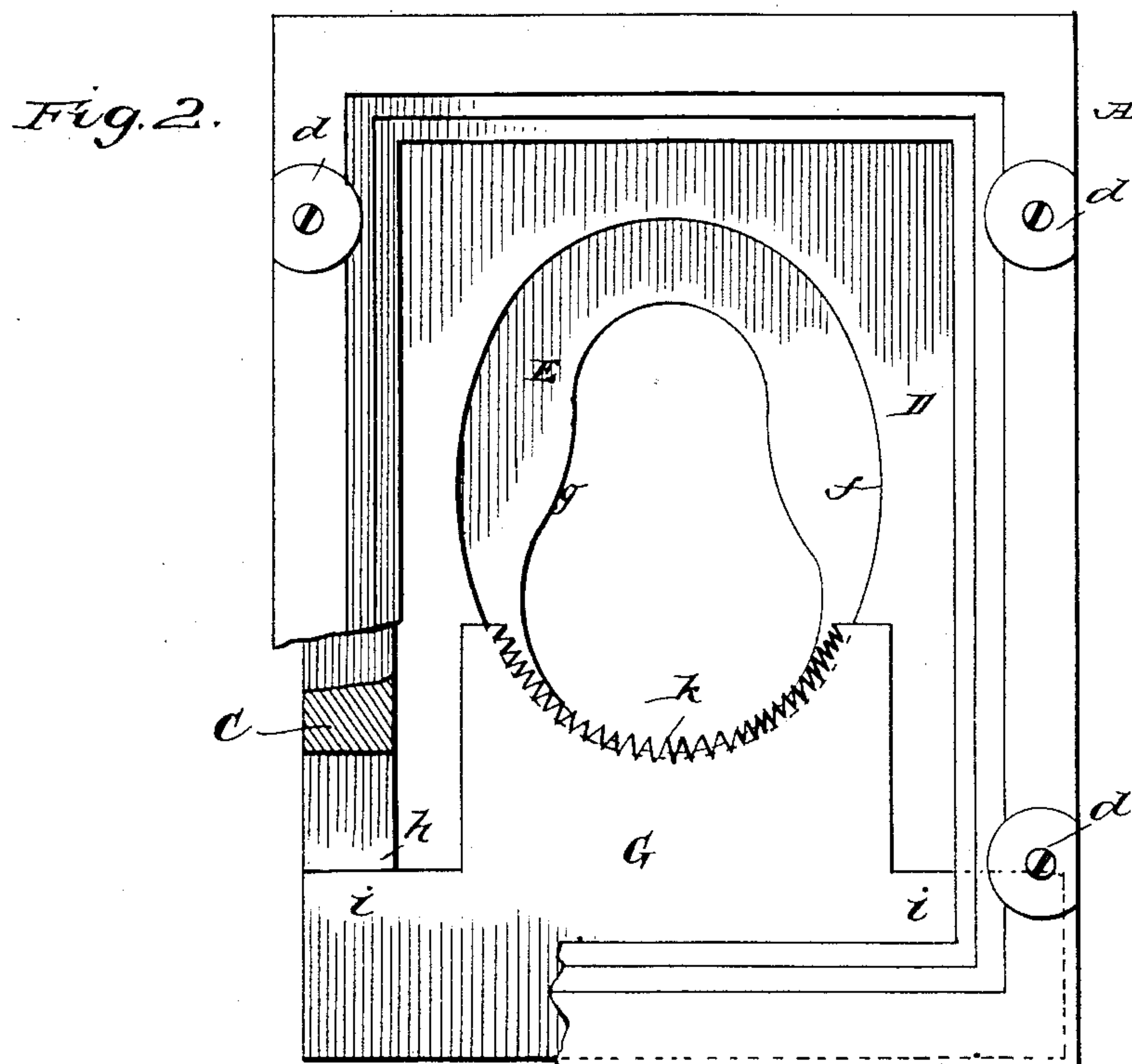
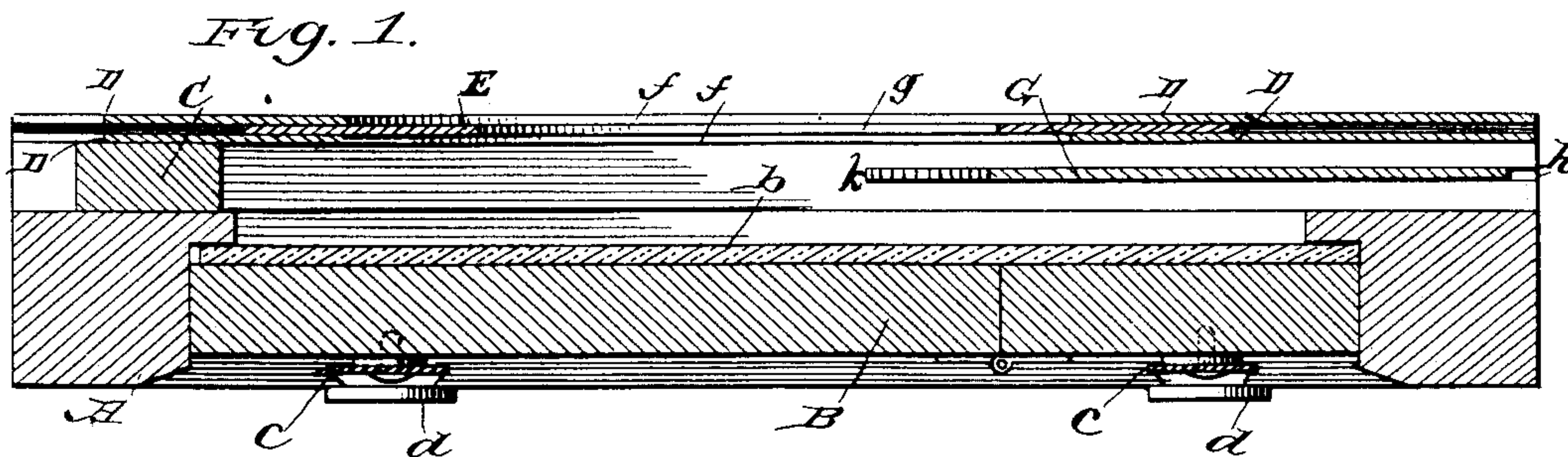
2 Sheets—Sheet 1.

J. R. TEWKSBURY.

VIGNETTING ATTACHMENT FOR PHOTOGRAPHIC PRINTING FRAMES.

No. 401,083.

Patented Apr. 9, 1889.



WITNESSES:

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Fig. 3.

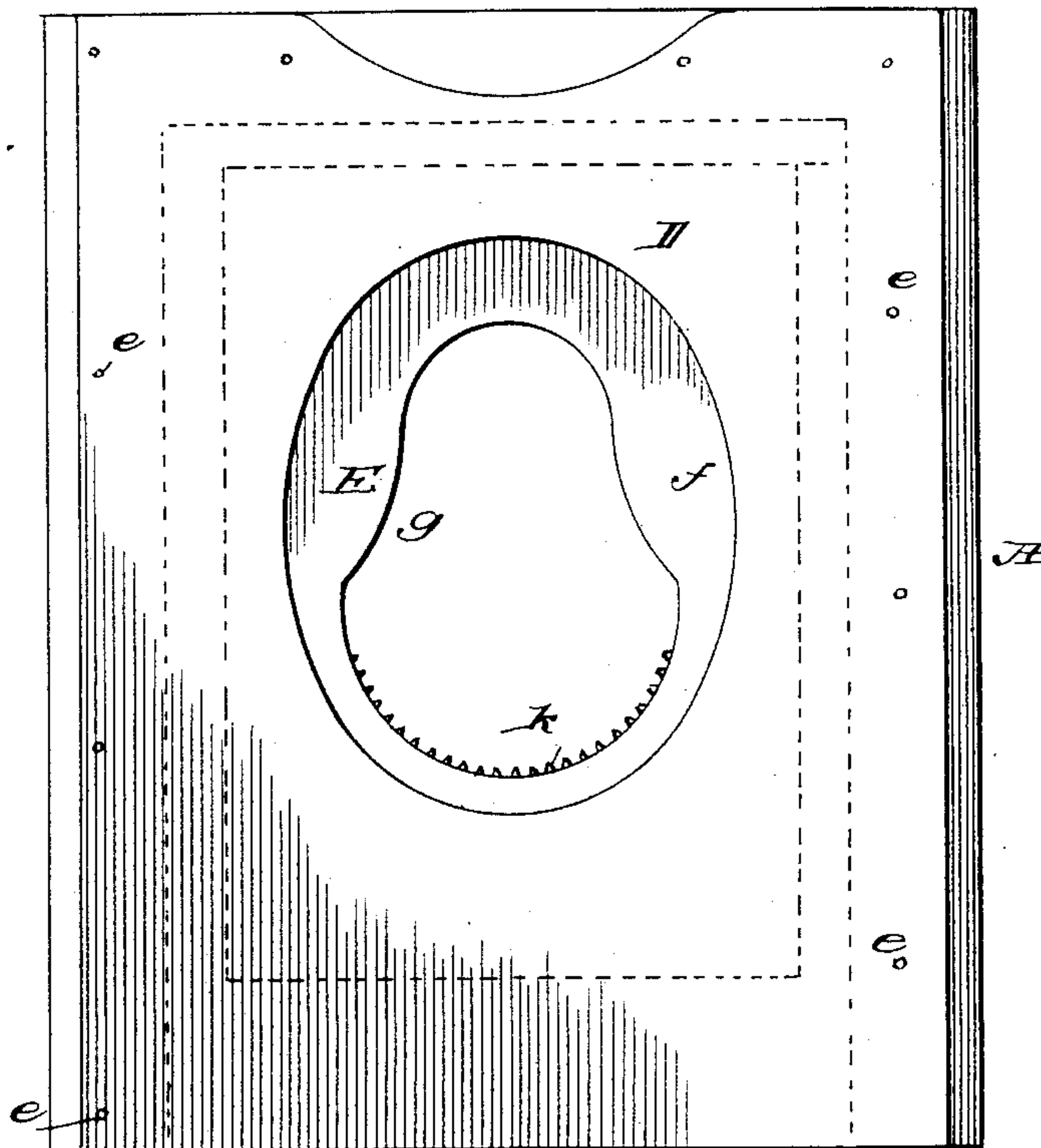


Fig. 4.

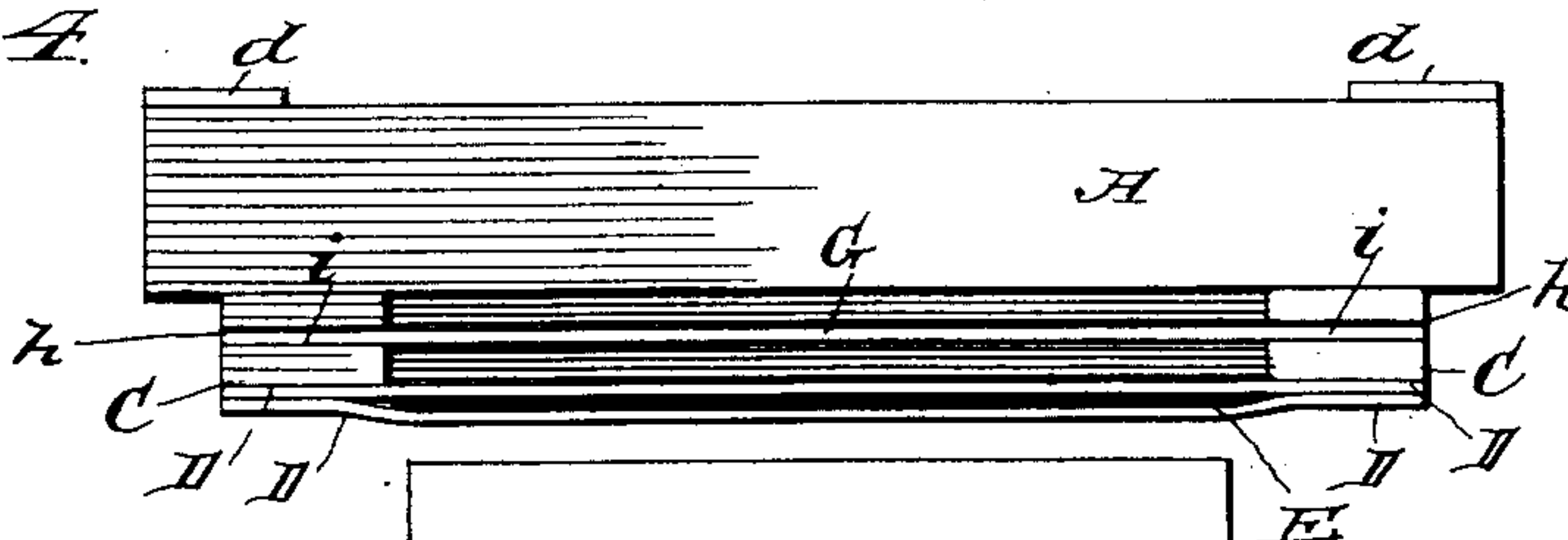
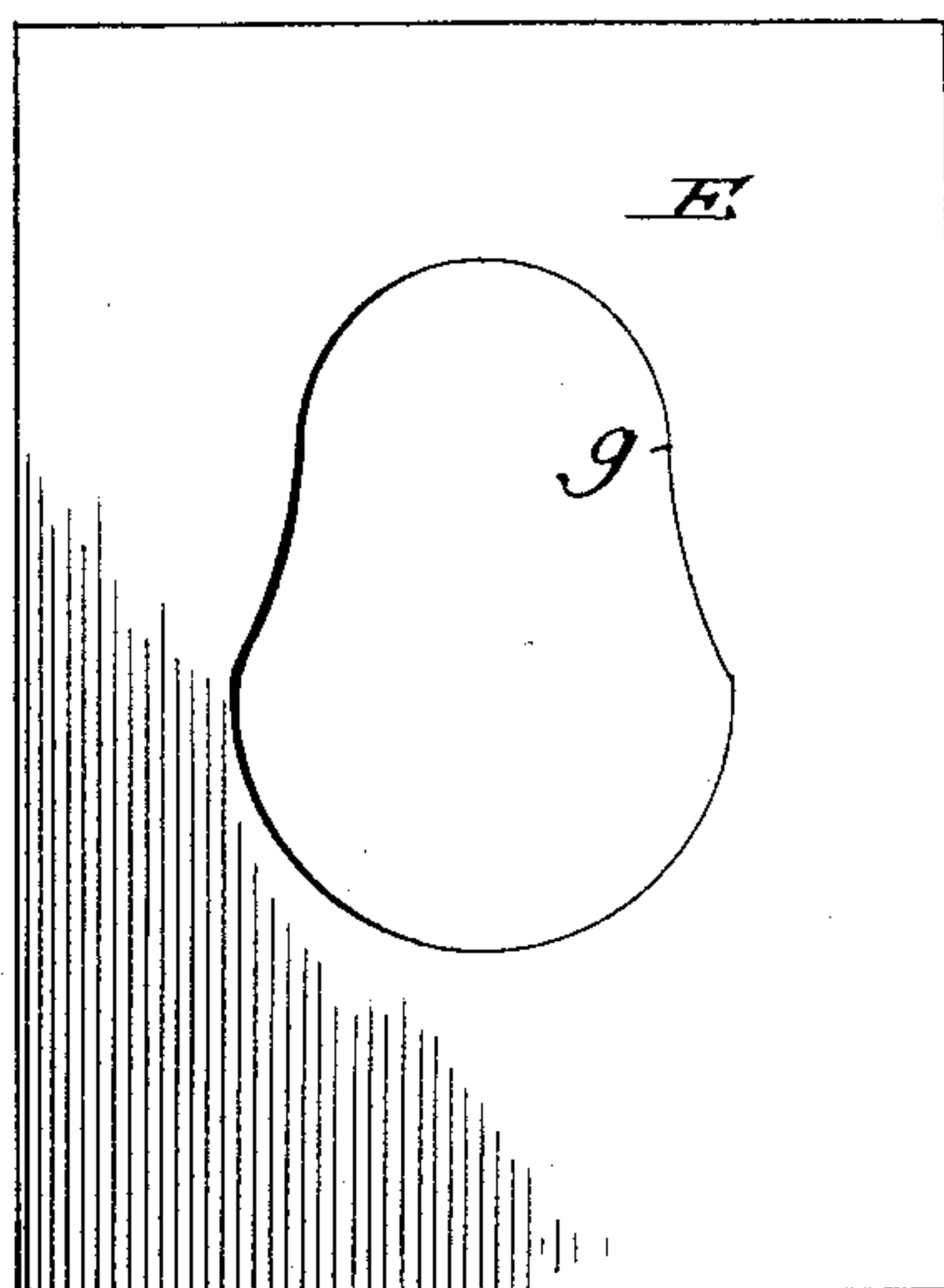


Fig. 5.



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JOSEPH R. TEWKSBURY, OF FORT MADISON, IOWA.

VIGNETTING ATTACHMENT FOR PHOTOGRAPHIC-PRINTING FRAMES.

SPECIFICATION forming part of Letters Patent No. 401,083, dated April 9, 1889.

Application filed November 27, 1888. Serial No. 291,965. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH R. TEWKSBURY, of Fort Madison, in the county of Lee and State of Iowa, have invented a new and useful Improvement in Vignetting Attachments for Photographic-Printing Frames, of which the following is a full, clear, and exact description.

This invention consists in a vignetting attachment for photographic-printing frames, in which an independent frame secured to the face of the printing-frame is provided with a series of masks of card-board or other suitable thin material, certain of which are adjustable in relation to the others, substantially as hereinafter described, and pointed out in the claims, whereby photographs may be vignetted in any easy and simple manner, subject to a variety of changes, and the effect of the light be broken or softened, as required.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a longitudinal section of a photographic-printing frame with the negative in position and having my improved vignetting attachment applied. Fig. 2 is a partly broken rear view with the back of the printing-frame removed. Fig. 3 is a front or top view of the whole, and Fig. 4 an end view thereof. Fig. 5 is a face view of one of the adjustable masks detached.

A indicates the printing-frame proper, which may be of the ordinary or any suitable construction, adapted to hold within it the negative-plate *b* and paper to be printed, and provided with the usual sectionally constructed and removable hinged back B, or it might be any other back held to its place by pivoted spring clamping-bars *c c*, which engage at their ends under projections *d d* attached to the frame. About such printing-frame in itself or the manner of using it nothing here is claimed as new. Upon the face of this printing-frame A is secured an independent frame, C, or it might be integral with the printing-frame. This frame C has secured upon its outer face, as by marginal longitudinal rows of tacks *e* or otherwise, two stationary masks, D D, of card-board or other suitable thin material, arranged one outside of the other, and each

provided with an enlarged aperture, *f*, of a size adapted to take in the whole figure or picture. Between these stationary masks D D is fitted loosely another mask, E, of like material or materials, having a smaller and suitably-shaped aperture, *g*, in it adapted to take in or expose a more restricted area of the negative, and which, being fitted loosely between the masks D D, can be slid up and down and sidewise in various directions to take in the bust portion of a portrait, for instance, or major portion of the figure—that is, so as to exclude the light from the remainder of the figure being printed, and the universal adjustability of this said mask E provides for vignetting with ease and as circumstances may require. Back again of this adjustable mask E, at the one or lower end of the frame, is another adjustable vignetting-mask, G, of card-board or other suitable thin and flexible material fitted to slide in slots *h h* in the frame C, and constructed so that it may be adjusted lengthwise or laterally therein by opposite arm-like projections, *i i*, while its main or body portion is free to be bent or adjusted as required, and presents a curved end, *k*, which may be serrated or not. This adjustable mask G acts as a cut-off to the mask E to vary its range or area at the base, and by its position and universal adjustment and the facility with which it may be bent it provides for a special vignetting action and to break and soften the light in vignetting photographs of different kinds.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In vignetting attachments for photographic-printing frames, the combination, with the printing-frame A, of the attached mask-carrying frame C, closed on its sides over the printing-frame, but provided with opposite side slots, *h h*, at its lower end, substantially as specified.

2. In vignetting attachments for printing-frames, the combination, with the printing-frames A, of the attached mask-carrying frame C, closed on its sides over the printing-frame, but provided with opposite side slots, *h h*, at its lower end, and the adjustable and flexible vignetting-mask G, having opposite arm-like

projections, *i i*, on its sides adapted to slide within said slots as guides and to provide for the adjustment of the mask *G* in various directions, essentially as described.

5 3. In vignetting attachments for photographic-printing frames, the combination, with the printing-frame, of the attached frame *C*, the masks *D D*, of card-board or other suitable thin material, secured to said frame *C*,
10 and having enlarged openings *f* in them, and the loose mask *E*, adjustable in various directions between the masks *D D*, and provided with a suitably-shaped smaller aperture, *g*, substantially as specified.

15 4. In vignetting attachments for photographic-printing frames, the combination,

with the printing-frame, of the attached frame *C*, the masks *D D*, secured to said frame *C*, and having enlarged openings *f* in them, the loose mask *E*, adjustable in various directions 20 between the masks *D D*, and provided with a suitably-shaped smaller aperture, *g*, and the adjustable and flexible cut-off vignetting-mask *G*, all of said masks being constructed of card-board or other suitable thin material 25 and being arranged in relation to each other and to the printing-frame, essentially as shown and described.

JOSEPH R. TEWKSBURY.

Witnesses:

O. I. SEARLES,
IRA E. SEARLS.