

No. 639,564.

Patented Dec. 19, 1899.

W. G. HARRIS.  
PHOTOGRAPHIC FINDER COVER.

(Application filed July 2, 1898.)

(No Model.)

Fig. 1.

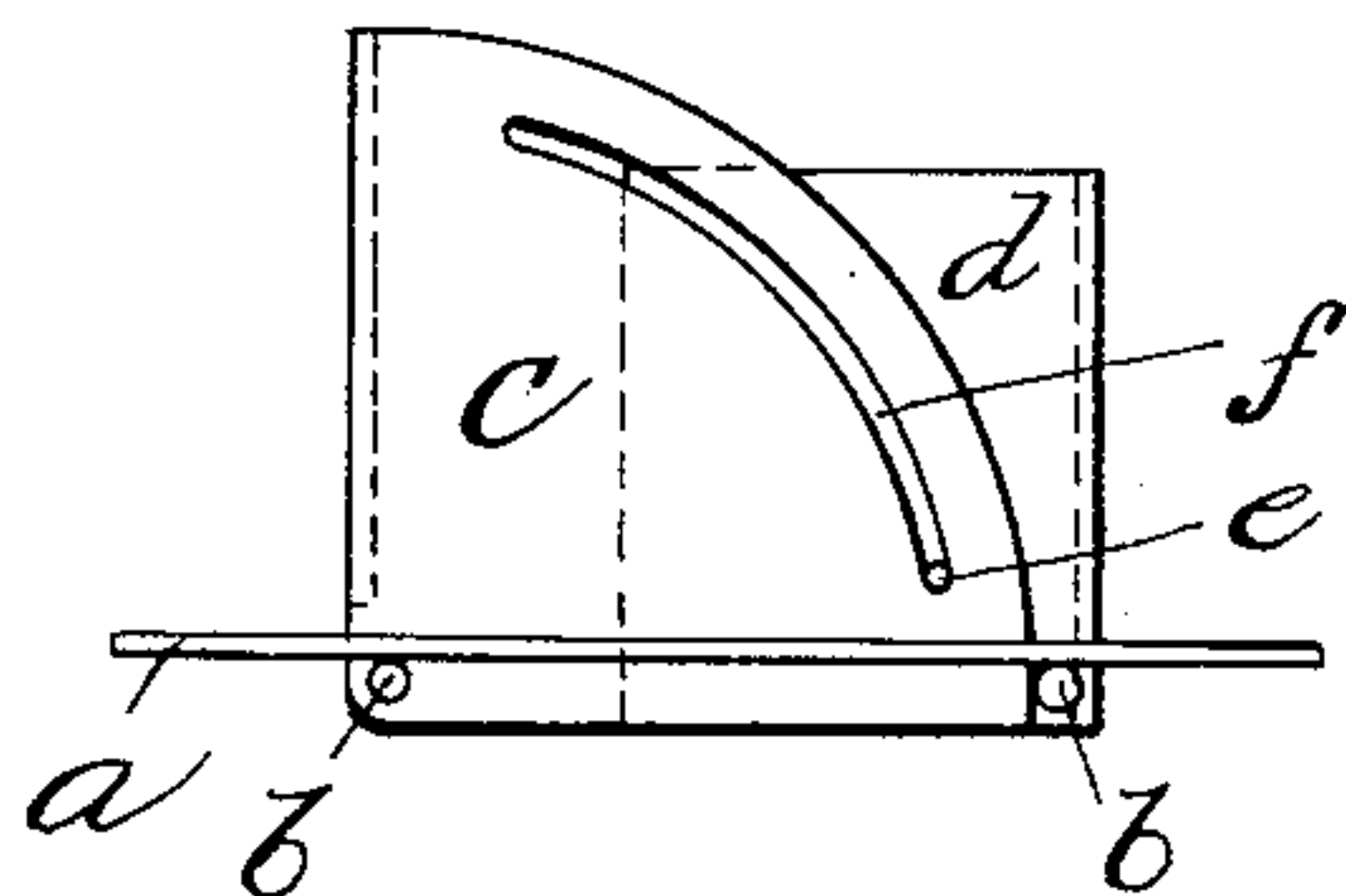


Fig. 2.

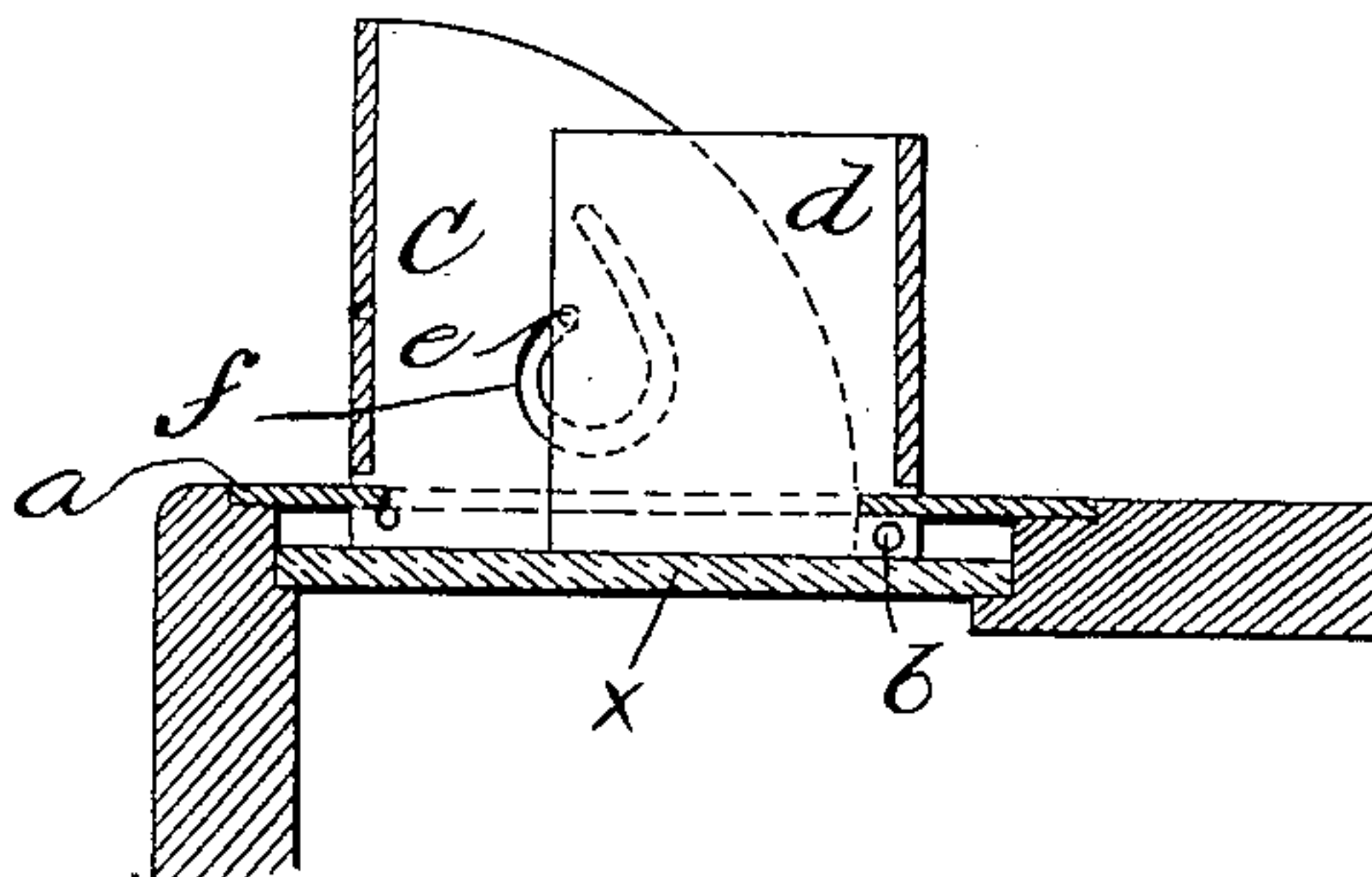


Fig. 3.

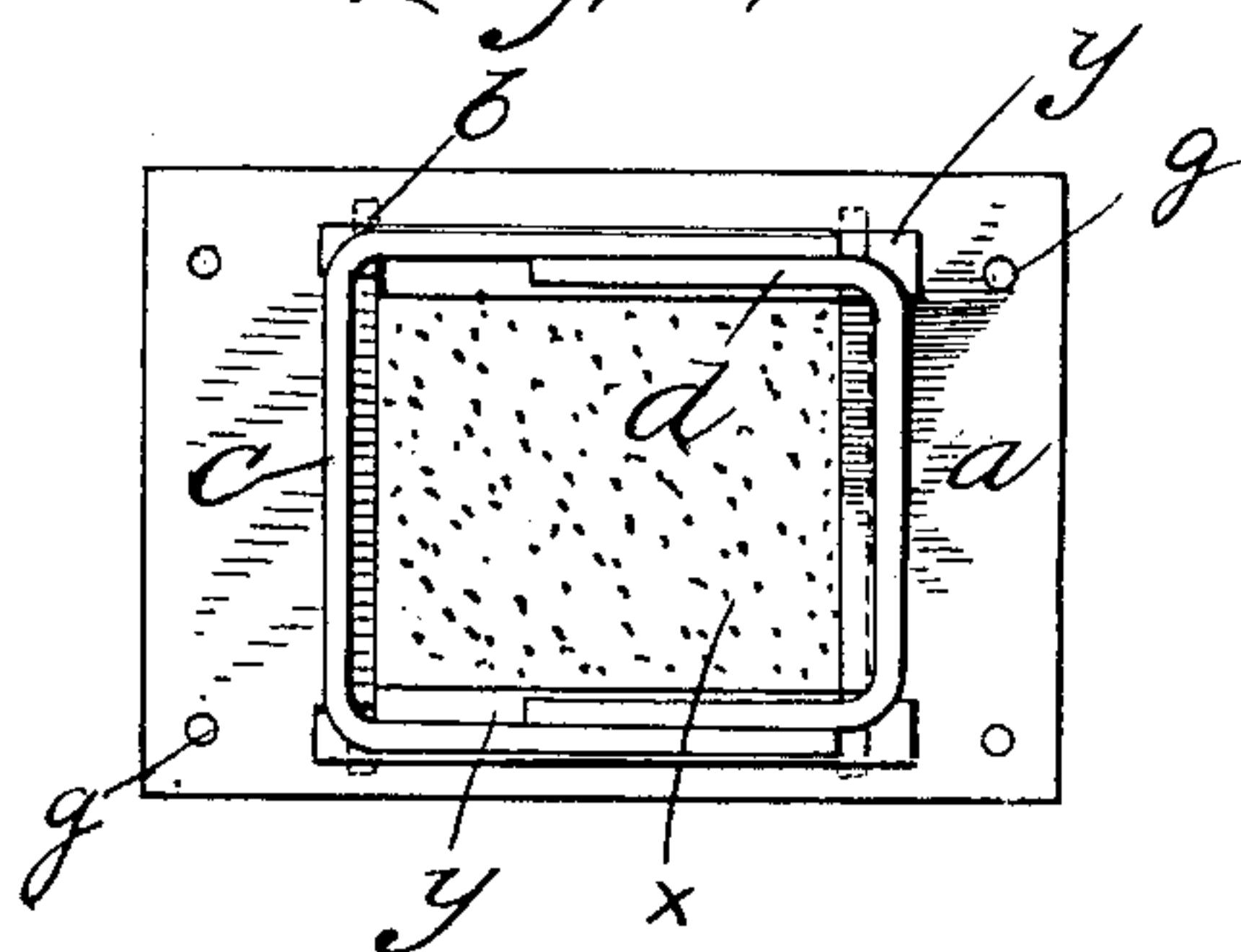


Fig. 4.

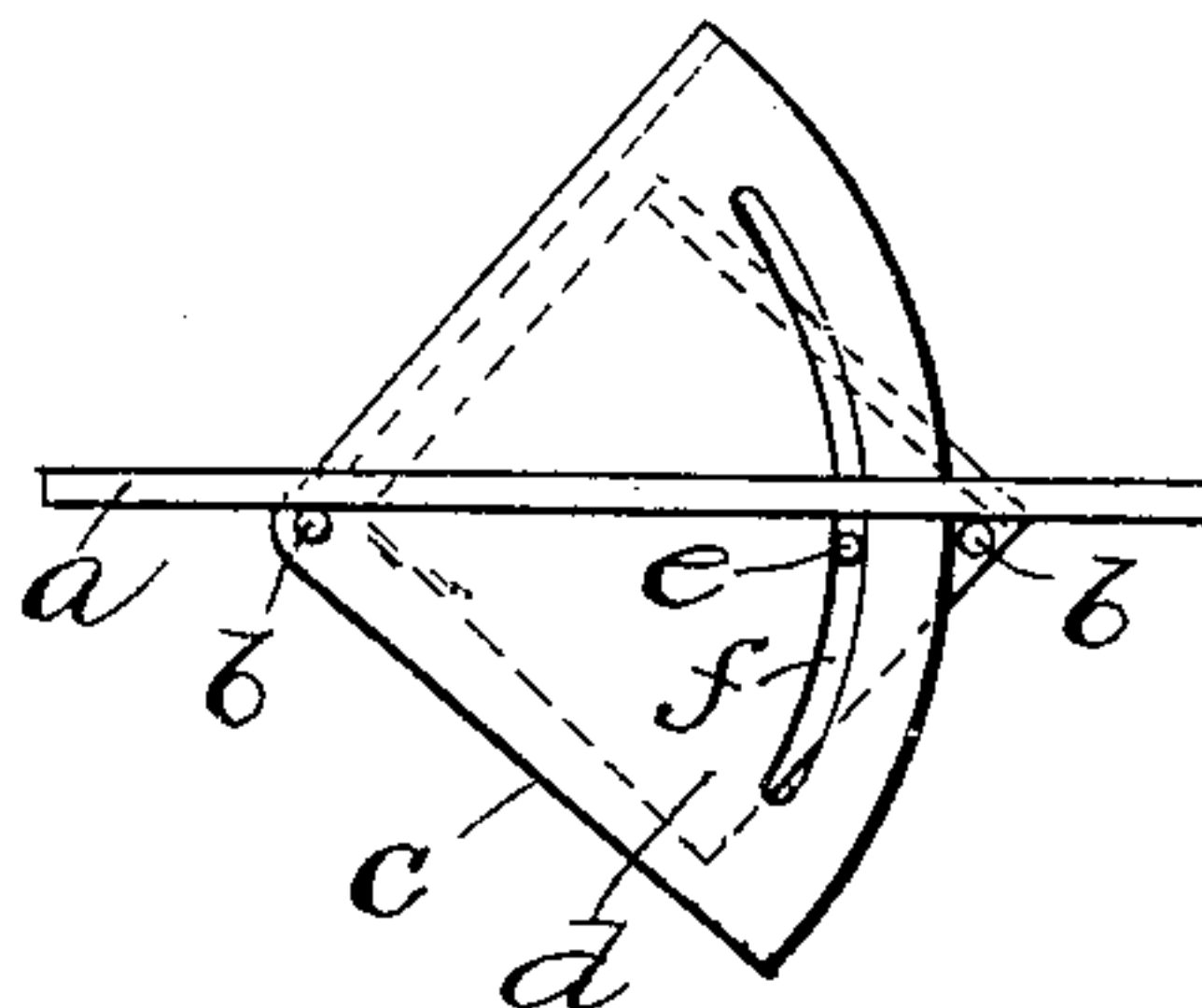


Fig. 6.

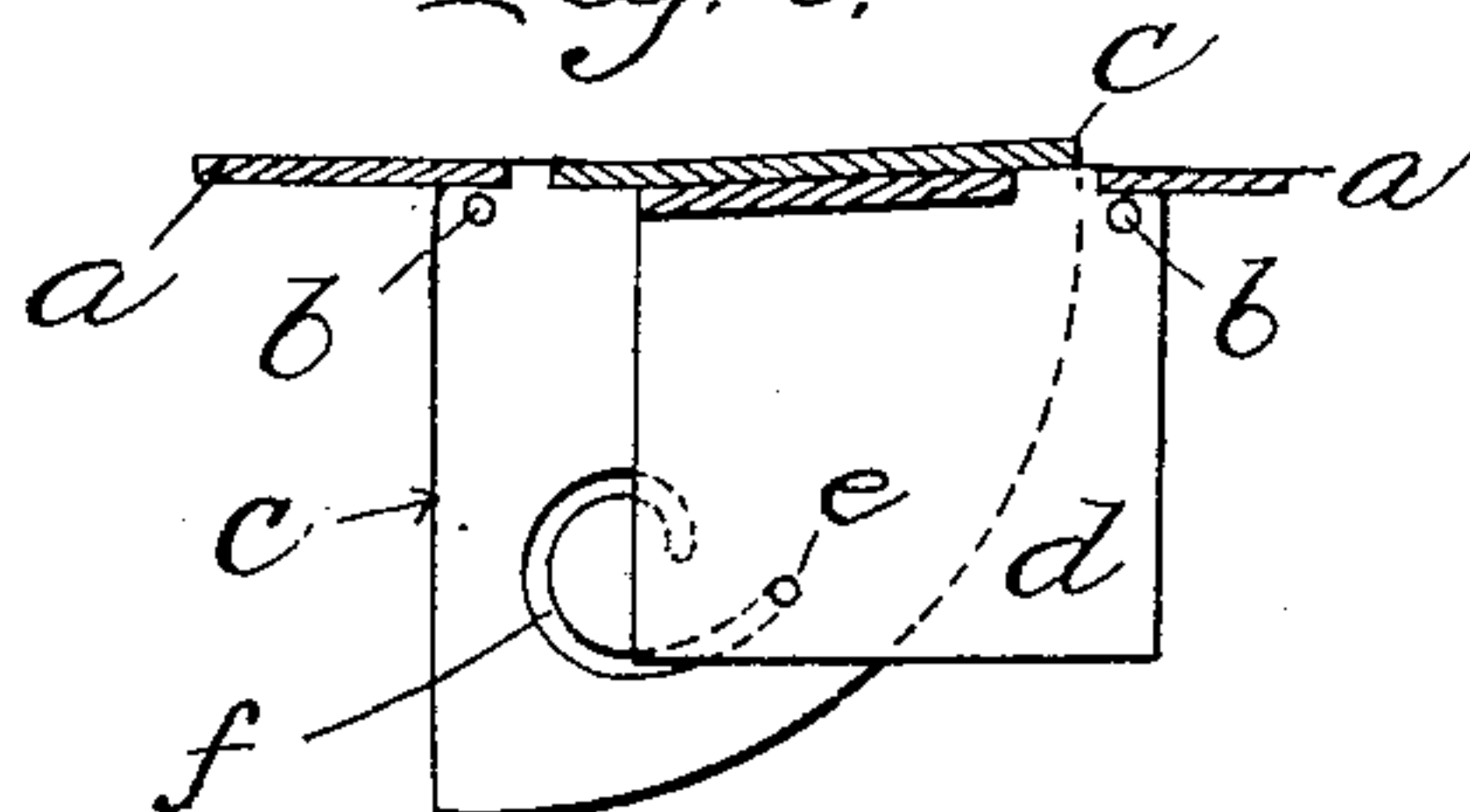
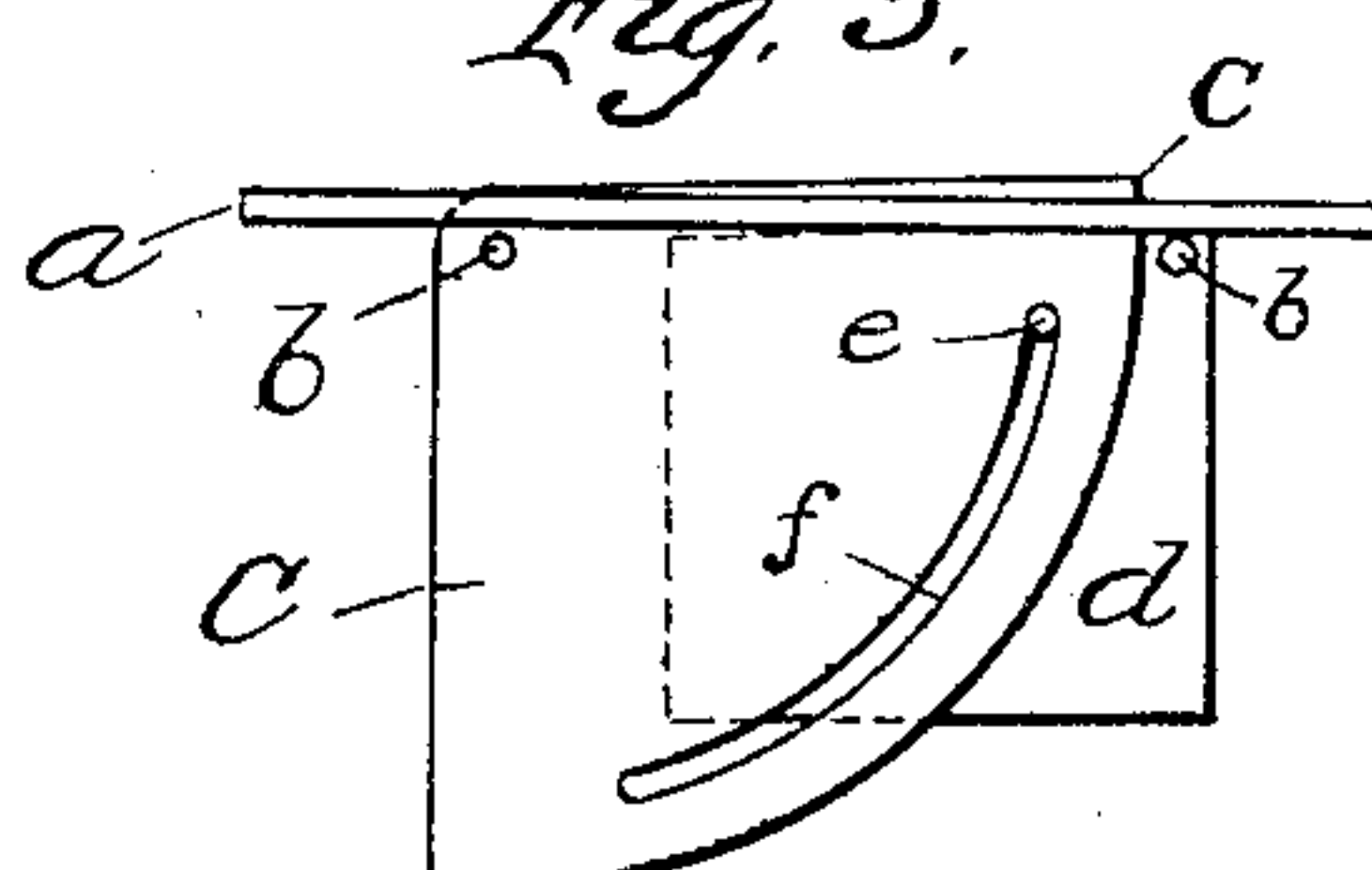


Fig. 5.



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# UNITED STATES PATENT OFFICE.

WILLIAM GEORGE HARRIS, OF LONDON, ENGLAND.

## PHOTOGRAPHIC-FINDER COVER.

SPECIFICATION forming part of Letters Patent No. 639,564, dated December 19, 1899.

Application filed July 2, 1898. Serial No. 685,029. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM GEORGE HARRIS, a subject of the Queen of Great Britain, and a resident of 53 Friern road, Dulwich Park, London, England, have invented certain new and useful Improvements in Photographic-Finder Covers or Shades for Photographic Cameras, (for which Letters Patent have been applied for and complete specification accepted in Great Britain under No. 10,279, bearing date May 5, 1898,) of which the following is a specification.

The object of my invention is to provide a view-finder cover or shade for photographic cameras by means of which extraneous light is shaded off from the ground-glass screen upon which the view is reflected and the admission of light from above is readily regulated or completely shut off.

In the accompanying drawings, Figures 1 and 2 are respectively a side view and a central longitudinal section of the device of this invention in the open position. Fig. 3 is a plan view of the same. Fig. 4 is a view showing the device in the half-turned-down position; Figs. 5 and 6, respectively a side view and a central longitudinal section of the device completely closed.

*a* is an open frame-plate, to the under side of which two cross pins or wires *b* are fixed by soldering or brazing.

*c d* are two cover parts mounted to turn on said pins one within the other either inward and downward from the open to the closed position or inversely. This movement, with the relative position of the two parts, is controlled by means of guide-pins *e*, fixed one in each side of the inner cover part *d* and engaging in slots *f*, provided one on each side of the outer cover part *c* and of different curvatures, the pins *e* being each fixed at such a point in the part *d* as to correspond with the curve in the outer part *c*, through which it has to move.

The device is attached to the outside of the camera-box so as to inclose, with its frame-plate and cover or shade parts, the usual ground-glass screen of ordinary cameras, as at *x*, Fig. 2. For this purpose screw-holes *g* are provided in the frame-plate.

In operation the two cover parts *c d*, being

linked together by pins *e* and slots *f*, may be opened out upward or turned down simultaneously by pulling or pressing one of the said parts. When in the turned-down position, the back of the outer cover part is flush, or nearly so, with the outside of the camera-box. As shown in Fig. 3, suitable slots *y* are left between the inner edges of the plate *a* and the outer edges of the ground glass *x* for the passage of the sides of the cover parts.

The device is preferably made of thin sheet metal—say one thirty-second of an inch thick; but any other suitable material, such as mica or celluloid, may be used instead. In the drawings the thickness of the metal is exaggerated for the sake of clearness.

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

1. A view-finder cover or shade in which two cover parts *c, d*, are mounted on an open frame-plate to turn one within the other, upward to admit light to the ground-glass screen, and downward to close over said screen flush or nearly so with the camera-box, and in which the relative movement of said cover parts is controlled by means of guide-pins fixed in the one cover part engaging in slots of different curvatures in the other cover parts; substantially as described and shown.

2. In combination in a view-finder, a pair of cover parts pivotally connected with the camera and jointly operating to cover or expose the ground glass and when in upright position to shade the same, said parts by their pivotal action moving into or out of the camera-box and when folded overlying the ground glass, substantially as described.

3. In combination with the ground glass, the two cover parts pivoted to the camera-box, and folding toward and from each other over the ground glass and the pin-and-slot connection between the cover parts, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

WILLIAM GEORGE HARRIS.

Witnesses:

ALBERT GUSTANCE,

WALLACE FREDRICK WALKER.