

that can be reversed, so as to take pictures upon plates at either side of the plate-holders, substantially as set forth.

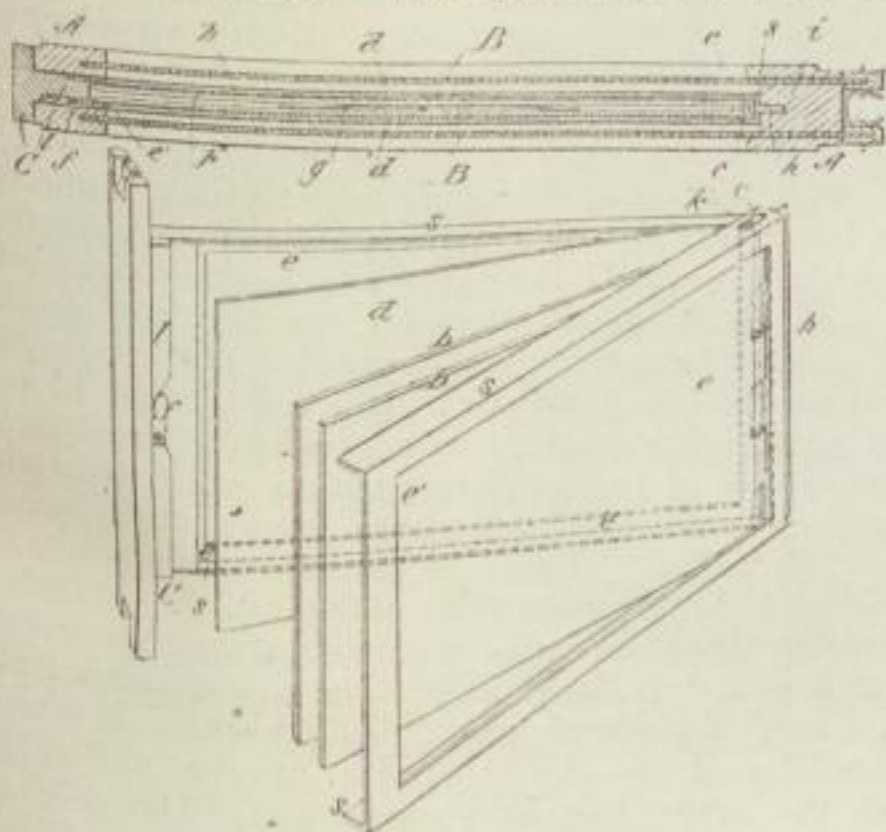
10. The camera-box having a front, end, and sides with segmental grooves, in combination with a cover formed of slats united by flexible material, the ends of the slats being within the grooves, substantially as set forth.

11. The forked stop, spring, turning-head, and notched case, in combination with the plates *u*, and the plate-holders or focussing-frame, substantially as specified.

12. The combination, with the camera-box, of sectional shields within the box, and the axles of the same extending through the camera-box, and turn-buttons or heads for the same, substantially as set forth.

13. The combination, with the plate-holders, the belt for connecting the same, and the roller for moving the belt, of a counting device for indicating the plates that are brought successively into place for the pictures, as set forth.

315,219. ERASTUS B. BARKER, New York, N.Y., assignor to E. and H. T. Anthony and Co., same place, for "Photographic plate or sheet-holder."—Filed Nov. 18, 1884. (No model).



*Claim.*—1. In a photographic plate-holder, the combination with the septum of the holder, of an open hinged or swinging-frame, constructed to clamp or hold the marginal portions of the sensitive sheet on or against the septum, substantially as specified.

2. A septum for a photographic plate-holder, made substantially as herein shown and described, consisting of pivoted boards, in combination with pivoted open frames, constructed to clamp the marginal portions of the sensitized sheets on or against said-boards, essentially as described.

3. The combination, with the septum boards and the pivoted frames, of the separating spring or springs *g*, substantially as described, whereby the edges of the sensitized sheets will be firmly held between the septum boards and the edges of the pivoted frames, as set forth.

4. The pivoted frames *e e'*, constructed with flanges or lips, *s*, substantially as shown and described, whereby the frames will fold one within the other, with the septum boards between, as set forth.

5. The outer frame, *e'*, constructed with a slot, *k*, as shown and described, whereby said frame is made to slide longitudinally upon the other frame and the septum, to facilitate the opening and closing of the several parts, and the insertion and removal of the photographic sheets, as set forth.

6. The fastening, *f*, in combination with the pivoted frame *e'* and the septum head or stop *l*, as shown and described.

7. The combination, with the extremity of the frame *e'*, of the projecting fin *h*, as and for the purposes shown and described.

8. The frame *e*, fixedly secured to the septum head or stop *l*, and serving to carry both the outer pivoted frame and septum boards, substantially as specified.

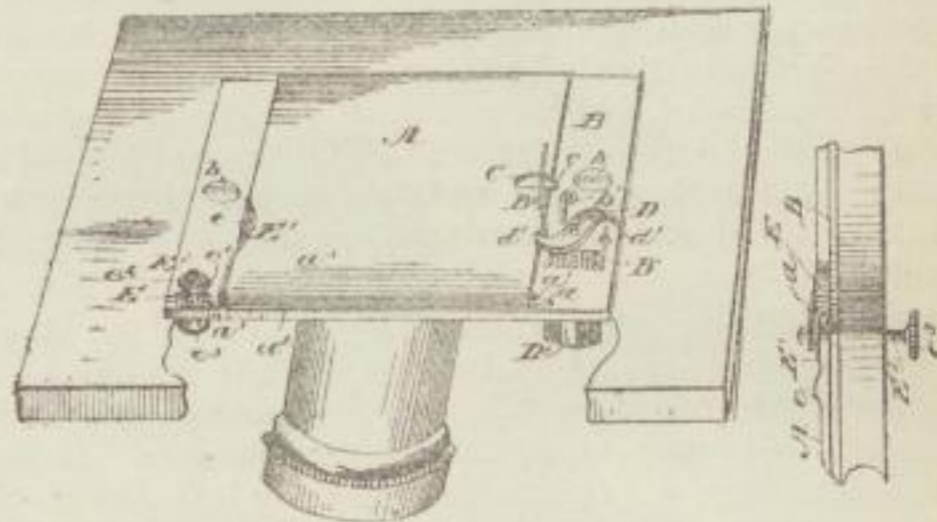
315,296. HARRY W. KELLOGG, Greenfield, Mass, for "Instantaneous shutter for cameras."—Filed July 12, 1884. (No model).

*Claim.*—1. In a photographer's camera, the combination, with

an instantaneous shutter, of an opening-spring mechanism and a closing tensioned spring, said springs being of unequal resiliency, and situated at opposite sides of the door, substantially as described.

2. In a photographer's camera, the combination, with an instantaneous shutter hinged at its lower side, of a self-setting exposing device consisting of a coiled spring having a spring-finger, which, acting excentrically with a cam operated by a thumb-nut, is brought into engagement with the under side of a lug rigid on the shutter, and the closing mechanism, substantially as described.

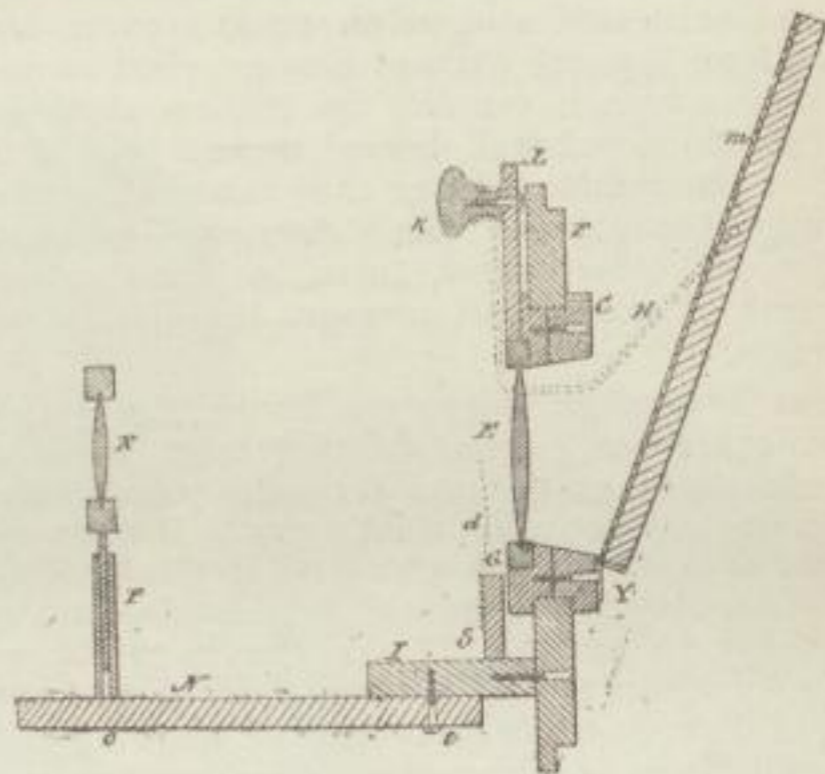
3. In a photographer's camera, the combination, with an instantaneous shutter having a self-setting exposing device, of a closing mechanism consisting of a coiled spring, *E*, having a



spring-finger, *E'*, extending from the main coil and engaging with the lug or projection *e* on the shutter, and a tension-screw, *E''*, for varying the exposure, substantially as described.

4. In a photographer's camera, the combination, with an instantaneous-flash shutter or light-door hinged at its lower side, of the opening and closing devices situated at opposite sides of the bottom of the door, and acting conjointly, a thumb-nut for operating said opening and closing devices, and a metal plate upon which the shutter and all the operating mechanism is mounted, substantially as described.

315,450. WM. C. STRONG, Kent's Hill, Me., "Adjustment for solar cameras."—Filed March 22, 1883. (No model).



*Claim.*—1. The combination, with the foundation *F*, having a circular hole near its centre, of the two flanged collars *C*, fitted to the said hole, the lever *L*, secured to the inner collar and provided with the knob *K*, pivoted to it, the mirror *m*, hinged to the outer collar, and the cord *H*, secured at one end to the mirror, and at the other end to the knob *K*, to be wound thereon, substantially as described, whereby the mirror may be both rotated and elevated, or depressed by means of the said knob.

2. The combination, with the foundation *F*, the mirror *m*, and lens *E*, secured thereto, as described, and the cross-piece *I*, also secured to the foundation *F*, of the lens-bar *N*, pivoted at *t* to the cross-piece *I*, the lens *R*, and the telescoping joint *P*, supporting the lens and provided with the slide *O*, fitted to the bar *N*, as shown and described, whereby the lens *R* may be raised or lowered, may be caused to approach or recede from the lens *E*, and may be swung horizontally out of parallel therewith, as described.