L. C. GREER AND B. C. GOLLING.

CAMERA.

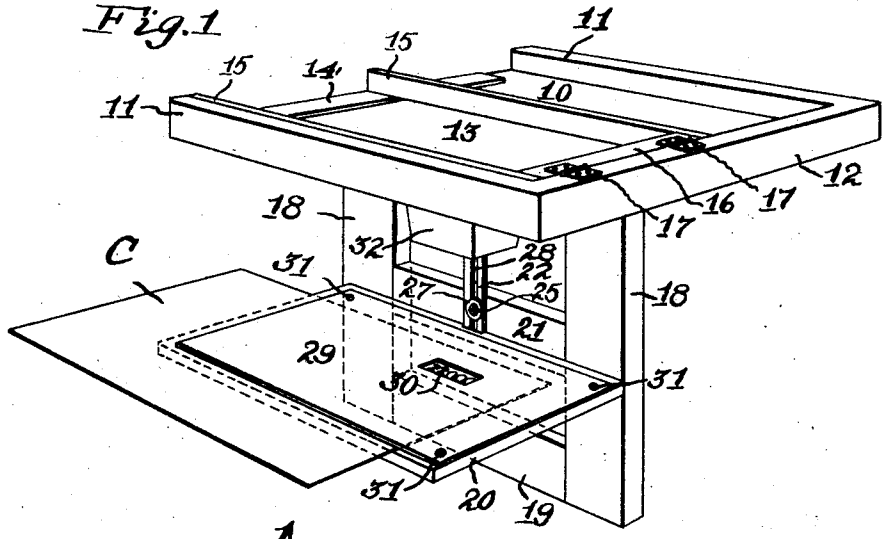
APPLICATION FILED AUG. 12, 1920.

1,402,228.

Patented Jan. 3, 1922.

2 SHEETS—SHEET 1.

Fig. 1



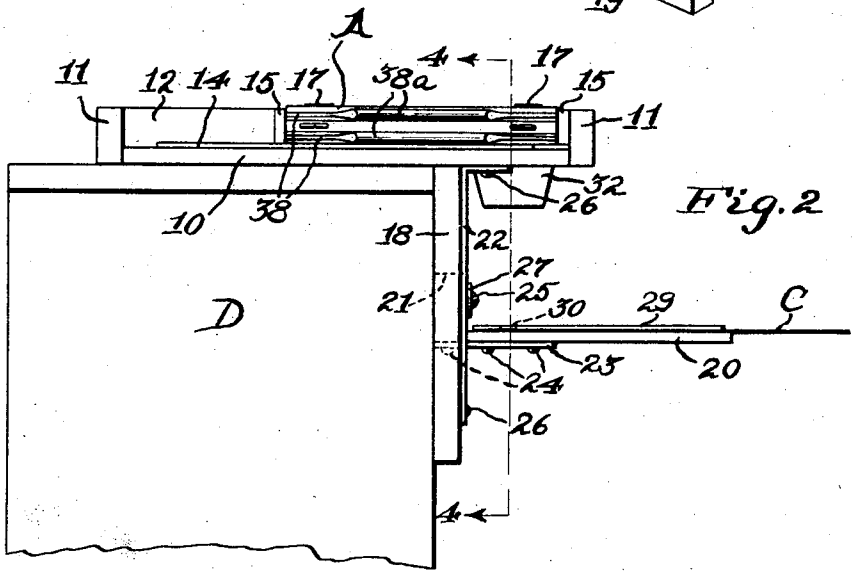


Fig. 2

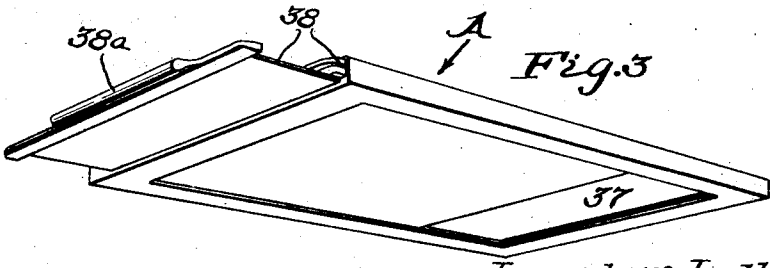


Fig. 3

Inventors: Luther C. Greer
Benjamin C. Golling
by: John E. Shyke
their Attorney.

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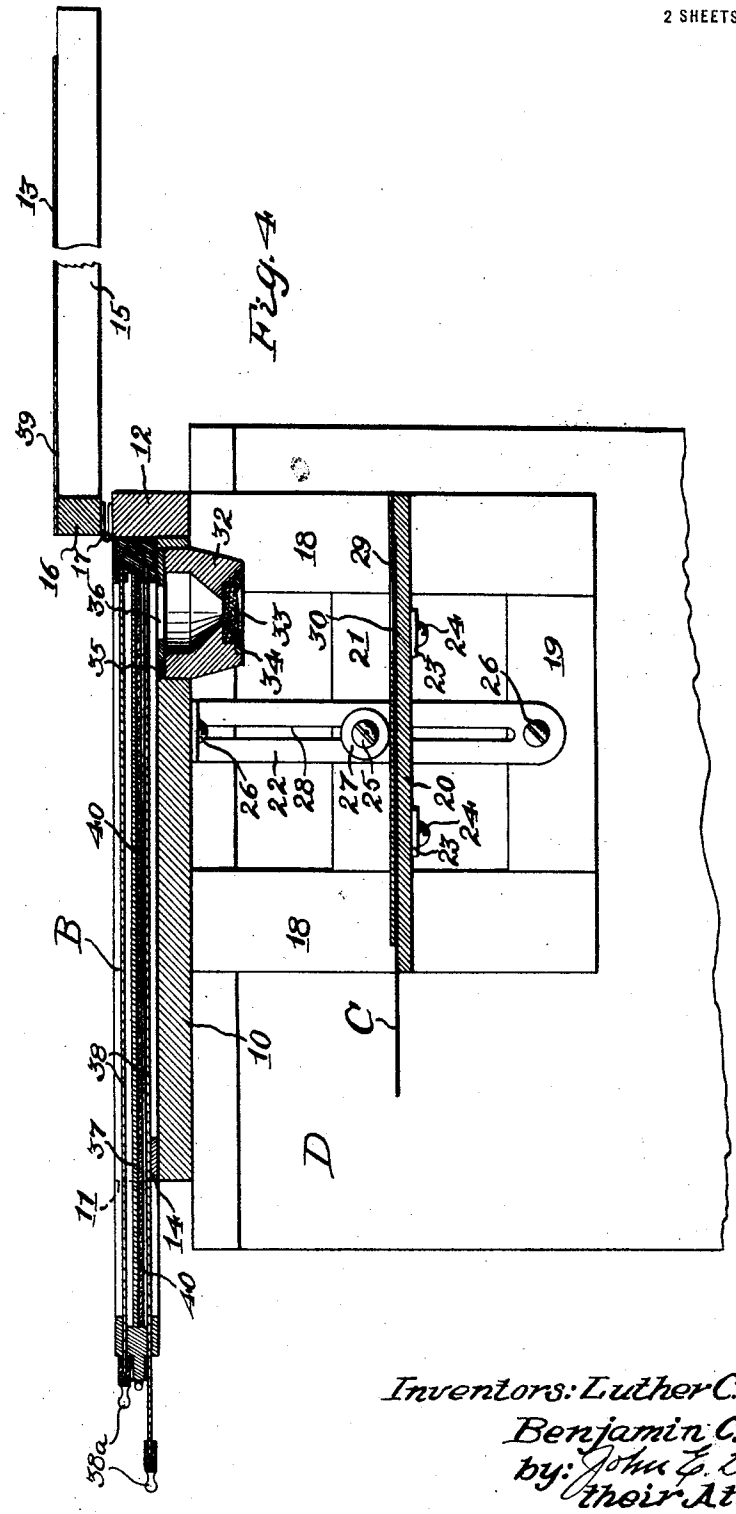
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2 SHEETS—SHEET 2.

Fig. 4



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UNITED STATES PATENT OFFICE.

LUTHER C. GREER AND BENJAMIN C. GOLLING, OF ST. PAUL, MINNESOTA.

CAMERA.

1,402,228. Specification of Letters Patent. Patented Jan. 3, 1922.

Application filed August 12, 1920. Serial No. 403,035.

To all whom it may concern:

Be it known that we, LUTHER O. GREER and BENJAMIN C. GOLLING, citizens of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented new and useful Improvements in Cameras, of which the following is a specification.

Our invention relates to improvements in photographic apparatus.

Its object is to facilitate the identification of photographic plates, or film sheets, with file or order numbers referring thereto.

Heretofore difficulty has been experienced in marking film sheets and sensitive plates so that they may be identified with the proper order after the processes of exposure, development, fixing, washing and drying have been completed. It has been usual for the person developing a plate to take the order card relating thereto into the dark room with him, and then apply the number of the order to the plate. This practice is troublesome and leads to errors. To obviate this difficulty we provide novel means whereby a numeral or identifying character usually placed on an order card may be easily and quickly reproduced on the proper plate.

In the accompanying drawings Figure 1 is a perspective view of our device with an order card on the support; Fig. 2 is an end elevation of the same with one of the smaller plate holders in place on the platform; Fig. 3 is a detail perspective view of a plate holder with one of the sliding covers partially open and Fig. 4 is a section taken on the line 4—4 of Fig. 2 and shows one of the larger plate holders replacing the smaller sized holder shown in Fig. 2 on the platform.

We have used the letters A and B to indicate plate holders of smaller and larger sizes respectively, of types commonly used in photography, and C an order card. Our device is arranged to fit over a corner of and be secured to a suitable case or table D. The numeral 10 indicates a rectangular platform for supporting the holders A and B. Three edges of the platform 10 are bounded by a pair of guides 11 and stop bar 12 rigidly secured thereto and a tray 13 is hinged at one edge to said bar 12. The platform 10 together with the guides 11 and stop 12, thus form a support or frame for the plate holders. A strip 14 is fastened to the platform 10 along its edge opposite the bar 12. The tray 13 is provided with sides 15 and an end 16, which is secured to the bar 12 by hinges 17, and is open at its opposite end. Legs 18, joined at their lower ends by a cross bar 19, extend downward and are rigidly attached to the under side of the platform 10. The card support 20 projects at right angles to the legs 18, being adjustably mounted by means of a bar 21 and slotted bracket 22 between said legs. The support 20 and the lower edge of the bar 21 are connected by a pair of strips 23 and screws 24, said screws passing through perforations in said strips and being threaded in the support 20 and bar 21. This bar is slidable vertically between the legs 18 and is adjustably secured to the slotted bracket 22 by a bolt 25. The ends of the bracket 22 are fastened, midway between the legs 18, to the cross bar 19 and under side of the platform 10 by screws 26. The head of the bolt 25 engages a washer 27 and its shank extends through said washer and the slot 28 in the bracket 22 and is threaded in the bar 21. Thus by loosening the bolt 25 the bar 22 together with the card support 20 may be moved upward or downward and secured at any point within the limit of the slot 28 by tightening said bolt.

The card support 20 carries a rectangular mask of flexible material 29 with a slot 30 through which the identification characters are photographed. Three corners of the mask 29 are fastened to the support 20 by screws 31 and the fourth corner is free to permit the insertion of order cards between the support 20 and the mask 29.

Directly above the slot 30, we have mounted a small camera consisting of a housing 32 rigidly mounted in the platform 10, and a lens 33 (Fig. 4). Said lens is held in the lower end of the housing 32 by a retaining ring 34 and a cover 35, having a window 36 in line with the focal axis of said lens, is secured over the upper end of said housing. A slot 39 in the tray 13 is arranged to register with the window 36 when said tray is in use.

The plate holders A and B are each adapted to contain two sensitive plates separated by a partition 37 and screened from light by the sliding covers 38. A sensitive plate 40 is shown in the lower compartment of the holder B in Fig. 4.

The platform 10 is adapted to receive either of two standard sized plate holders, A

and B, the tray 13 (Fig. 2) with its sides 15 being used to properly place the smaller plates A, and the platform, with the tray 13 turned back on its hinges 17 (as shown in the Fig. 4) being used to position the larger holders B.

In operation a holder containing a plate that it is desired to mark with an identification number or character is placed on the platform 10 with the plate in the lower compartment, and the order card (which has previously been marked with the identification number) is inserted between the support 20 and mask 29 with the identification character exposed in the slot 30. The grip 38[a] of the lower sliding cover 38 is now grasped and said cover drawn partway open as shown in Fig. 4. This exposes the corner of the sensitive plate 40, through the window 36 and lens 33, and allows the character or number on the card C to be photographed on said plate. The cover 38 is kept open for a predetermined length of time, usually between one and three seconds, and then closed, the correct focal distance between the card C and the plate 40 having been previously adjusted by means of the bolt 25.

Our device may be used either before or after the picture to be identified has been taken and affords quick and accurate means for identifying photographs with written or printed matter pertaining thereto.

Having described our invention what we claim as new and desire to protect by Letters Patent is:

1. In a device of the class described, a frame adapted to receive a large plate holder, a tray for a smaller plate holder removably mounted in said frame, a lens rigidly mounted in said frame, said frame and tray being formed with apertures adjacent to said lens and a card support rigidly mounted in parallel relation with said frame.

2. In a device of the class described, frames adapted to receive plate holders of different sizes, a lens rigidly mounted in one of said frames, each of said frames being formed with an aperture in line with said lens, a card support mounted in parallel relation with said frame and a mask mounted on said support and having a slot positioned so that the focal axis of said lens will pass through said slot.

3. In a device of the class described, a frame adapted to receive a large plate holder, a tray for a smaller plate holder tiltably mounted at one side of said frame, a housing containing a lens rigidly mounted in said frame, said frame and tray being formed with apertures adjacent to said lens, a card support rigidly mounted in parallel relation with said frame, and a mask mounted on said support and having a slot positioned so that the focal axis of said lens will pass through said slot.

4. In a device of the class described, frames adapted to receive plate holders of different sizes, a housing containing a lens rigidly mounted in one of said frames, each of said frames being formed with an aperture in line with said lens, a card support mounted in parallel relation with said frame, a mask mounted on said support and having a slot positioned so that the focal axis of said lens will pass through said slot, and means for adjusting the focal distance between said lens and card support.

5. In a device of the class described, a frame adapted to receive a plate holder, a second and smaller removable frame within said first mentioned frame, a housing containing a lens rigidly mounted in said first mentioned frame, each of said frames being formed with an aperture adjacent to said lens, a card support mounted in parallel relation with said frame, a mask mounted on said support and having a slot positioned so that the focal axis of said lens will pass through said slot and means for adjusting the focal distance between said lens and card support.

6. In a device of the class described, a platform adapted to receive a plate holder, a housing containing a lens mounted in said platform, an aperture in said platform adjacent to said lens, downward extending legs secured to the under side of said platform, a card support adjustable vertically on said legs and a mask, having a slot positioned so that the focal axis of said lens will pass through said slot mounted on said support.

7. In a device of the class described, a platform adapted to receive a plate holder, a tray removably mounted on said platform and adapted to receive a smaller plate holder, a housing containing a lens rigidly mounted in said platform, apertures in said tray and platform adjacent to said lens, downward extending legs secured to the underside of said platform, a card support rigidly mounted in parallel relation with said platform on said legs, a mask mounted on said support and having a slot positioned so that the focal axis of said lens will pass through said slot and means for adjusting the focal distance between said lens and card support.

In witness whereof, we have hereunto subscribed our names to this specification.

LUTHER C. GREER,
BENJAMIN C. GOLLING.