

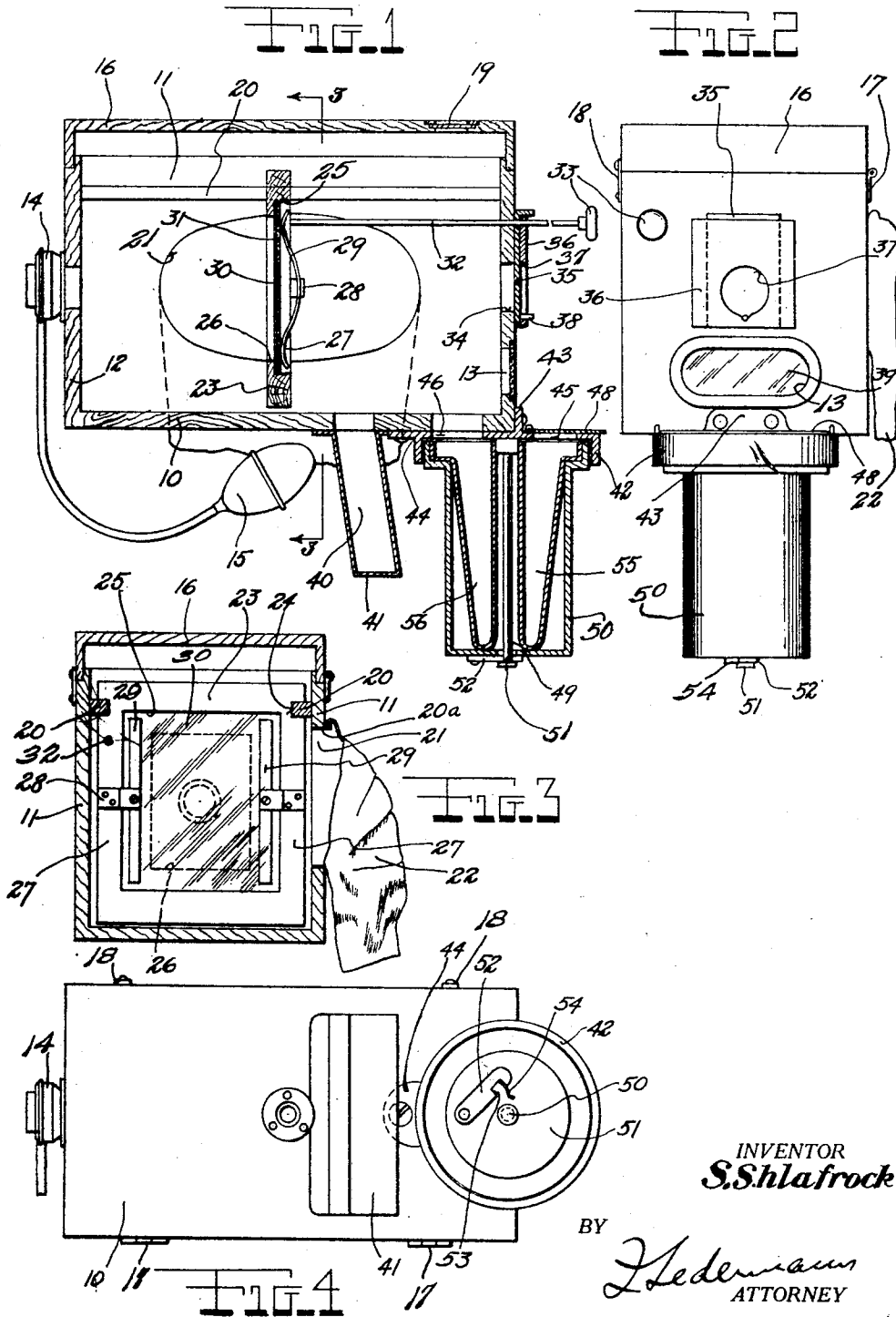
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S. SHLAFROCK

CAMERA

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CAMERA.

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To all whom it may concern:

Be it known that I, SAMUEL SHLAFROCK, a citizen of the United States, residing at New York, in the county of Bronx and State of New York, have invented certain new and useful Improvements in Cameras, of which the following is a specification.

The main object of this invention is to provide a combined camera and dark room in a single compartment, the entire apparatus being portable and provided with developing and fixing baths.

Another object is to provide a camera as described, having novel means therein whereby a sensitized card may have a negative photograph produced thereon from which additional positive photographs may be made immediately thereafter.

These and other objects will become apparent in the description below, in which characters of reference refer to like-named parts in the drawing.

Referring briefly to the drawing, Figure 1 is a longitudinal sectional elevational view thru the entire camera, showing the various members in cooperative position, the frame mover rod and knob being shown in dotted lines.

Figure 2 is a rear end elevational view of the same.

Figure 3 is a cross-sectional view thru the camera housing, taken on line 3—3 of Figure 1 to more clearly illustrate the sensitized card holder.

Figure 4 is a bottom plan view of the camera housing, showing the means for securing the developing and fixing bath containers in place.

Referring in detail to the drawing, the numeral 10 indicates the flow of the camera housing which has side walls 11, and a front and rear wall 12 and 13, respectively, the front wall having an aperture therein in which a shutter mechanism 14 of a bulb operated device is mounted, the bulb being indicated by the numeral 15. This camera housing is provided with a cover 16, the same being pivotally secured to said housing by hinges 17, and may be locked in closed position by hooks 18, which are pivoted on the housing and engageable with pins on the cover. At the rear portion of the cover, a filter glass 19 is mounted over an opening, and its purpose will be more fully hereinafter described. The longitudinal walls 11 have horizontal and aligned slide guides 20

secured thereto. One of the side walls 11 is provided with a relatively large opening 21 in which a sleeve 20^a having an outer rim encircling the same, the rim projecting outwardly for providing a retainer element for a sack 22, the opening 21 being large enough to permit the operator of the device to insert both hands simultaneously into the housing. A frame 23 having oppositely disposed recesses 24 at its upper end, is slidably mounted within the housing on the guides 20, the recesses engaging said guide strips. This frame is provided with a substantially rectangular sunken section 25 in which a small rectangular opening 26 is formed. On the sides 27 of the frame, brackets 28 project rearwardly and are rigidly secured to the frame. Ears extend from the projecting ends of the brackets and have curved resilient fingers 29 secured thereto, the fingers being secured to the brackets intermediate their length, the outer ends of said fingers contacting with the surface of the sunken portion 25. Upon the sunken portion 25 a glass plate 30 is seated and is retained in place thereon by the fingers 29 which permit movement of the plates when a sensitized card 31 is inserted into place in the frame, the card being indicated by the numeral 31. This frame has a rod 32 extending rearwardly therefrom which passes thru the housing and has a knob 33 at its projecting end. The rear wall 13 of the housing has an aperture 34 aligned with the shutter mechanism 14 and is normally covered by a gate 35, the latter being slidable in a guide member 36 which has an opening 37 therein. The gate has a pin 38 projecting therefrom at its lower end, said pin being used when manipulating the gate to open or close the aperture 34 thru the opening 37. An additional filter glass 39 is mounted in the rear wall 13 and its purpose will be more fully hereinafter described. A chamber 40 opening into the camera housing thru the floor 10, is formed by a container 41 and is used for the storage of sensitized cards which are stored in the container previous to their use.

At the rear lower corner of the camera housing, a flanged disk 42 is secured to the corner of the housing by having rivets pass thru an ear 43 and a similar projection 44. This flange is annular and is provided with openings 45 and 46, the latter openings being formed on the opposite sides of the center.

The opening 46 communicates with the interior of the camera housing thru the floor 10, and the opening 45 is exterior of the camera housing and is normally covered by a door 48. A stem 49 is rigidly connected to a hub on the flanged member 42 and projects downwardly and is provided with an enlarged head 50 at its lower end. An annular shell container 51 is slipped over the enlarged head 50 of the stem 49, and the floor of said shell has a latch bar 52 pivotally mounted thereon, said latch bar having a recess 53 formed therein which is engageable with the projecting end of the stem 49. Said bar when engaging the stem 49, seats upon the enlarged head 50 and retains the shell rotatably in place on the housing. One side of the recess has a relatively small flexible spring 54 extending therefrom and is curved inwardly so as to be slidably tripped when passing around the stem 49. A pair of troughs 55 and 56 are mounted in the shell 51 and are filled with liquid used as fixing and developing baths for the sensitized cards.

The operation of this device is similar to those now in use. Sensitized cards which have not been exposed to light are inserted into the container 41, and the fixing and developing baths are prepared and poured into their respective troughs 55 and 56. In adjusting the camera to take any desired range of vision, the gate 35 is lifted by manipulating the pin 38 so that the aperture 34 is exposed. The shutter may then be opened and the camera may be shifted until the suitable image of the object is seen upon the glass plate 31. The shifting of the card holder and frame 23 is accomplished by movement of the knob 33 on the rod 32. When the focus on the object has been attained, the gate 35 is closed and the camera is then ready for the taking of a picture. The frame 23 is then loaded with a sensitized card 31 by urging the plate rearward with a hand holding the card until the latter passes thru the opening 26 and shoulders upon the sunken portion 25. This sensitized card is mounted in place on the frame by the hand of the operator who inserts his hand thru the opening 21, the hand being covered by the sack 22. The covered hand reaches into the container 41, removes the card therefrom and inserts the card in place on the frame, as previously described. After the object has been photographed, the exposed card is removed from the frame 23 by the operator's hand covered with the sack 22 as in the previous loading operation, and the exposed card is inserted thru the opening 46 in the floor 10 and is precipitated into the fixing bath in trough 56. The shell 51 is then rotated approximately 180 degrees, which movement transposes the trough 56 to the position held by

the trough 55. The purpose therefore being to permit removal of the exposed card from the trough after the door 48 is lifted. The operator is now in possession of a photograph card having an object in negative impression thereon. The troughs 55 and 56 and the shell 51 may be removed from member 42 by rotating the latch bar 52 outwardly and to the position shown in Figure 4. This permits the shell 51 to be removed from the device after which the troughs may be independently removed from the shell, which may be then provided with fresh solutions.

I claim:—

1. In a camera, a housing having a hinged cover thereon, a shutter and lens mechanism in one wall of the housing, the housing having an aperture on the wall opposite to the shutter mechanism and aligned therewith, a gate slidably vertically, said aperture being closable by said gate, a carrier frame slidably mounted in said housing, a rod fixed to said frame and adapted to project from said housing, a knob on the end of said rod, said rod being adapted to slide the carrier frame, the carrier frame having a rectangular opening, a sunken portion adjacent to and larger than the opening in the frame, and a glass plate mounted in said sunken portion, said glass plate being adapted to retain a sensitized card in place in the opening of the frame.
2. In a camera, a housing having a hinged cover thereon, a shutter and lens mechanism in one wall of the housing, the housing having an aperture on the wall opposite to the shutter mechanism and aligned therewith, a gate slidably vertically, said aperture being closable by said gate, a carrier frame slidably mounted in said housing, a rod fixed to said frame and adapted to project from said housing, a knob on the end of said rod, said rod being adapted to slide the carrier frame, the carrier frame having a rectangular opening, a sunken portion adjacent to and larger than the opening in the frame, a glass plate mounted in said sunken portion, said glass plate being adapted to retain a sensitized card in place in the opening of the frame, brackets rigid on said frame, resilient fingers secured to said brackets, and a container mounted beneath the floor of said housing entering into the housing, said container being adapted as a holder for sensitized cards.
3. In a camera, a housing having a hinged cover thereon, a shutter and lens mechanism in one wall of the housing, the housing having an aperture on the wall opposite to the shutter mechanism and aligned therewith, a gate slidably vertically, said aperture being closable by said gate, a carrier frame slidably mounted in said housing, a rod fixed to said frame and adapted to project from said housing, a knob on the end of said rod, said

rod being adapted to slide the carrier frame, the carrier frame having a rectangular opening, a sunken portion adjacent to and larger than the opening in the frame, a glass plate mounted in said sunken portion, said glass plate being adapted to retain a sensitized card in place in the opening of the frame, brackets rigid on said frame, resilient fingers secured to said brackets, the fingers being secured to the brackets intermediate their length, the outer end of said fingers being curved downwardly to engage the rear surface of the glass plate, and a container mounted on the floor of said housing entering into the housing, said container being adapted as a holder for sensitized cards.

In testimony whereof I affix my signature.

SAMUEL SHLAFROCK.