

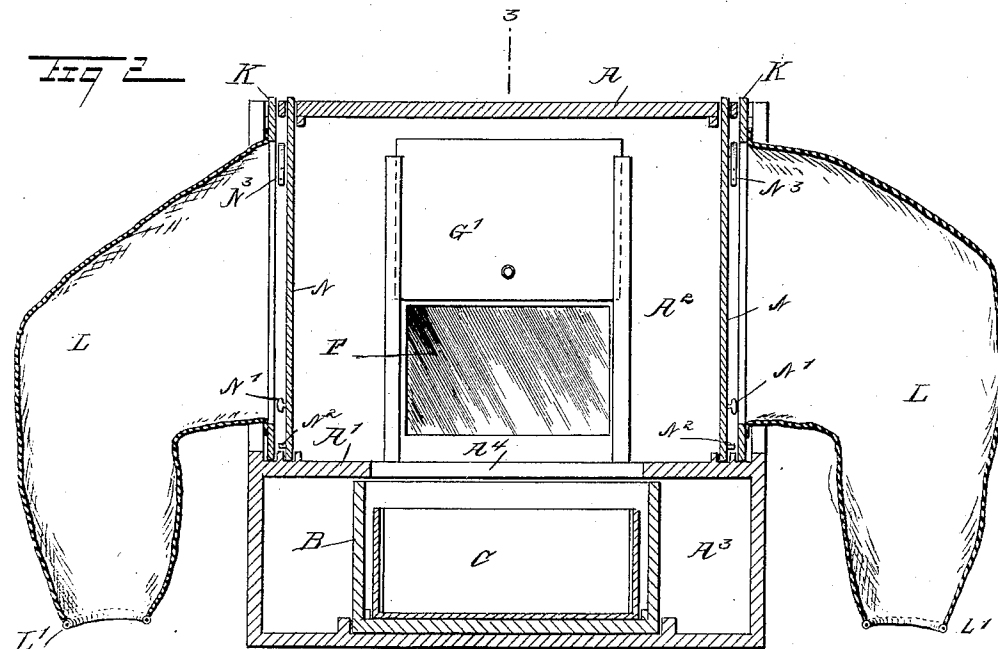
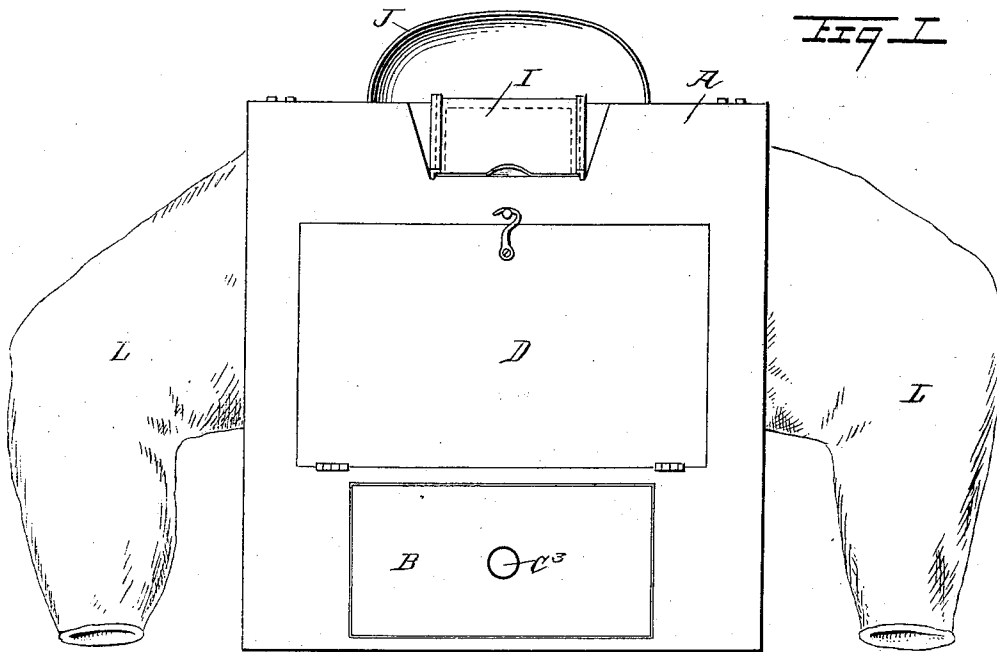
(No Model.)

2 Sheets—Sheet 1.

J. P. BROCKWAY.
PHOTOGRAPHIC DARK ROOM.

No. 558,348.

Patented Apr. 14, 1896.



WITNESSES:

H. Walker

Geo. J. Foster, Jr.

INVENTOR

J. P. Brockway

BY

Munn & Co

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Fig 3

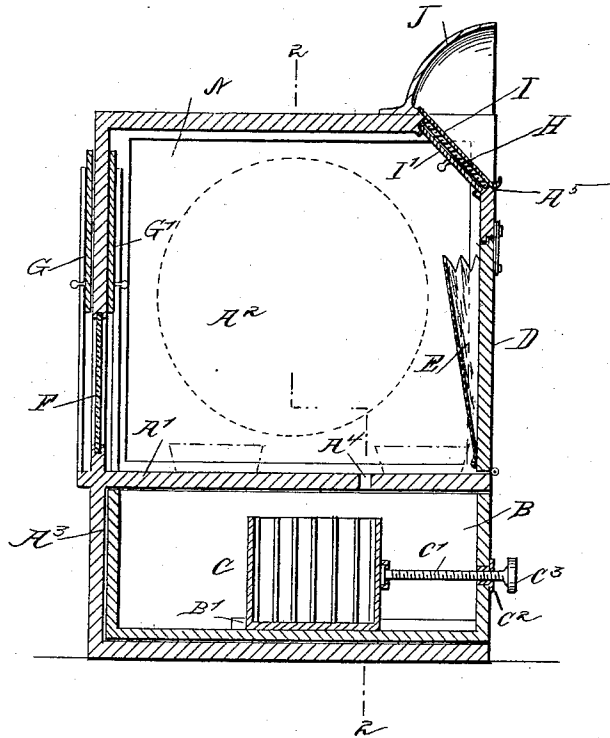
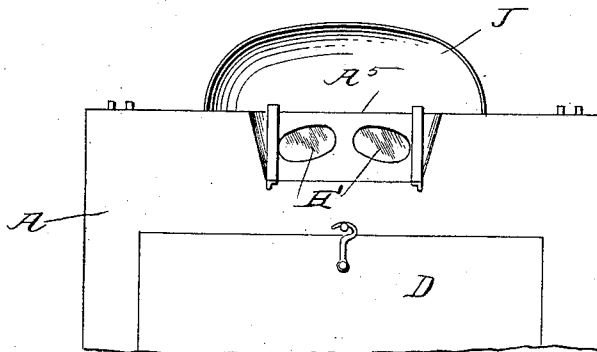


Fig 4



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UNITED STATES PATENT OFFICE.

JOHN P. BROCKWAY, OF DENVER, COLORADO.

PHOTOGRAPHIC DARK ROOM.

SPECIFICATION forming part of Letters Patent No. 558,348, dated April 14, 1896.

Application filed July 3, 1895. Serial No. 554,842. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. BROCKWAY, of Denver, in the county of Arapahoe and State of Colorado, have invented a new and Improved Portable Dark Room, of which the following is a full, clear, and exact description.

The invention relates to photography, and its object is to provide a new and improved portable dark room which is simple and durable in construction and arranged to permit the user to conveniently develop sensitive plates, films, &c., or to fill plate and film holders without the head of the operator being confined in the dark room during the operation.

The invention consists of a chamber having removable sides provided with sleeves for the arms of the operator, so that he can pass his hands and arms into the chamber to manipulate the plates, films, &c., while the rest of his body is on the outside of the chamber.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

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

Figure 1 is a rear elevation of the dark room. Fig. 2 is a sectional elevation of the same on the line 2 2 of Fig. 3. Fig. 3 is a transverse section of the same on the line 3 3 of Fig. 2, and Fig. 4 is a rear elevation of a modified form of the dark room.

The improved portable dark room is provided with a box A, which may be made in the form of a knockdown box, if desired. This box A is provided with a false bottom A' for dividing the box into an upper compartment A², in which the developing of the plates, films, &c., is done, and a lower compartment A³, into which the developed plates are passed through a slot A⁴, formed in the false bottom A'. Into this lower compartment A³ is fitted to slide a drawer B, provided with guideways B', in which is fitted to slide a plate-holder C, divided in the usual manner, and adapted to be moved transversely by a screw-rod C', screwing in a nut C², attached to the front of the drawer B. A

knob or handle C³ on the outer end of the screw-rod C' serves to turn the screw-rod to move the holder or rack C forward or backward and bring its compartments in alinement with the slot A⁴, so that when a developed plate is dropped through the slot A⁴ it passes into the proper compartment of the rack or holder C.

The upper compartment A² is provided at its rear with a hinged door D, provided at its inner side with a pocket E for supporting tools, paper, or other material. In the front of the upper compartment A² is arranged a pane of colored glass F to admit light to the interior of the said compartment, the said pane of glass being adapted to be covered both on the outside and on the inside by slides G and G'.

The rear upper edge of the box A is formed with a cut-out portion A⁵ to support a pane of colored glass H to permit the operator to view the inside of the chamber A² by looking from the outside through the said pane of glass. A slide I is adapted to cover the outside of this pane of glass H, and a similar slide I' is arranged on the inside of the chamber to cover the said pane of glass from the inside. A hood J is secured to the top of the box A and extends over the said pane of glass to shade the eyes of the user while looking through the pane of glass H to the inside of the chamber A².

The sides K of the compartment A² are fitted to slide vertically in suitable bearings formed in the front and rear of the box, and each of the sides K is provided with a sleeve L, made of rubber, canvas, or other suitable material, with a draw-string or an elastic band L' at the outer end of the sleeve, so that this outer end fits tightly around the arm of the user, to prevent any light from passing through the sleeve to the inside of the chamber A². The latter is provided on the inside of the sides K with slides N, each provided with a knob N' and a pin N², adapted to engage a catch N³, secured to the front of the box, as plainly indicated in Fig. 2.

Now it will be seen that the operator can conveniently remove the sides K from the box and then insert his arms in the sleeves L, so that his hands pass through the openings in the sides K at the inner ends of the sleeves.

The elastic band or draw-string L', engaging the upper part of the operator's arm, firmly connects the sleeve and prevents the light from passing into the sleeve, as previously mentioned, and then the operator can insert the sides K in their guideways, as shown in Fig. 2, to then open, from the inside of the sleeves, the slides N, and pass his hands inside of the compartment A² and open the slides G' and I', and manipulate and handle the plates, films, holders, and the like contained inside of the chamber A² in the usual manner. Thus it will be seen that previous to the operator placing the sides K back in position on the box he has opened the slides G and I and has also placed the plate-holder, trays, &c., inside of the chamber A² through the door D. Now it will be seen that by the operator looking through the pane of glass H he can conveniently observe the proper manipulation and development of the plates without being compelled to confine his head within the dark chamber. It will further be seen that by having the loose sleeves L the operator has free use of his arms to readily handle the trays, plates, holders, &c., within the chamber A². When a plate has been developed, the operator can drop it through the slot A⁴ into the rack or holder C, and previous to developing another plate he closes the slides N, I', and G' and removes one of the sides through the sleeve L attached thereto, to enable him to turn the knob C³ to shift the rack C and bring the latter with another compartment under the slot A⁴. The mechanism for shifting the rack C may be, however, arranged in such a manner that it extends into the chamber A² to permit the operator to shift the rack without removing one of the sides K, as above described.

Instead of employing a colored pane of glass H for viewing the inside of the chamber A², I may employ colored lenses H', as shown in Fig. 4, to enable the operator to see more perfectly into the chamber A².

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

1. A dark room having a chamber provided with a hand-inlet opening, a frame-like side fitted to said chamber over said opening, devices by which the said side may be detachably held to the chamber and a sleeve carried by said detachable side, substantially as and for the purposes set forth.

2. A dark room comprising a chamber provided with a hand-inlet opening, a sleeve formed at one end to fit over said inlet-opening and detachably connected at such end to the room, and a closure for said opening when the sleeve is removed, all substantially as and for the purposes set forth.

3. A portable dark room, comprising a box formed with a light-admitting pane, and a viewing-pane for enabling the operator to look inside of the box, removable sides held on the said box, and each provided with a sleeve, and slides in the said box, located at the inside of the said sides, substantially as shown and described.

4. A dark room comprising a chamber having a hand-inlet opening, a slide controlling said opening and an attachable frame-like side arranged to be applied outside said slide and a sleeve attached to said frame-like side substantially as set forth.

JOHN P. BROCKWAY.

Witnesses:

WILLIAM J. BRENNAN,
AUGUSTUS C. WAULLESCE.