

No. 744,498.

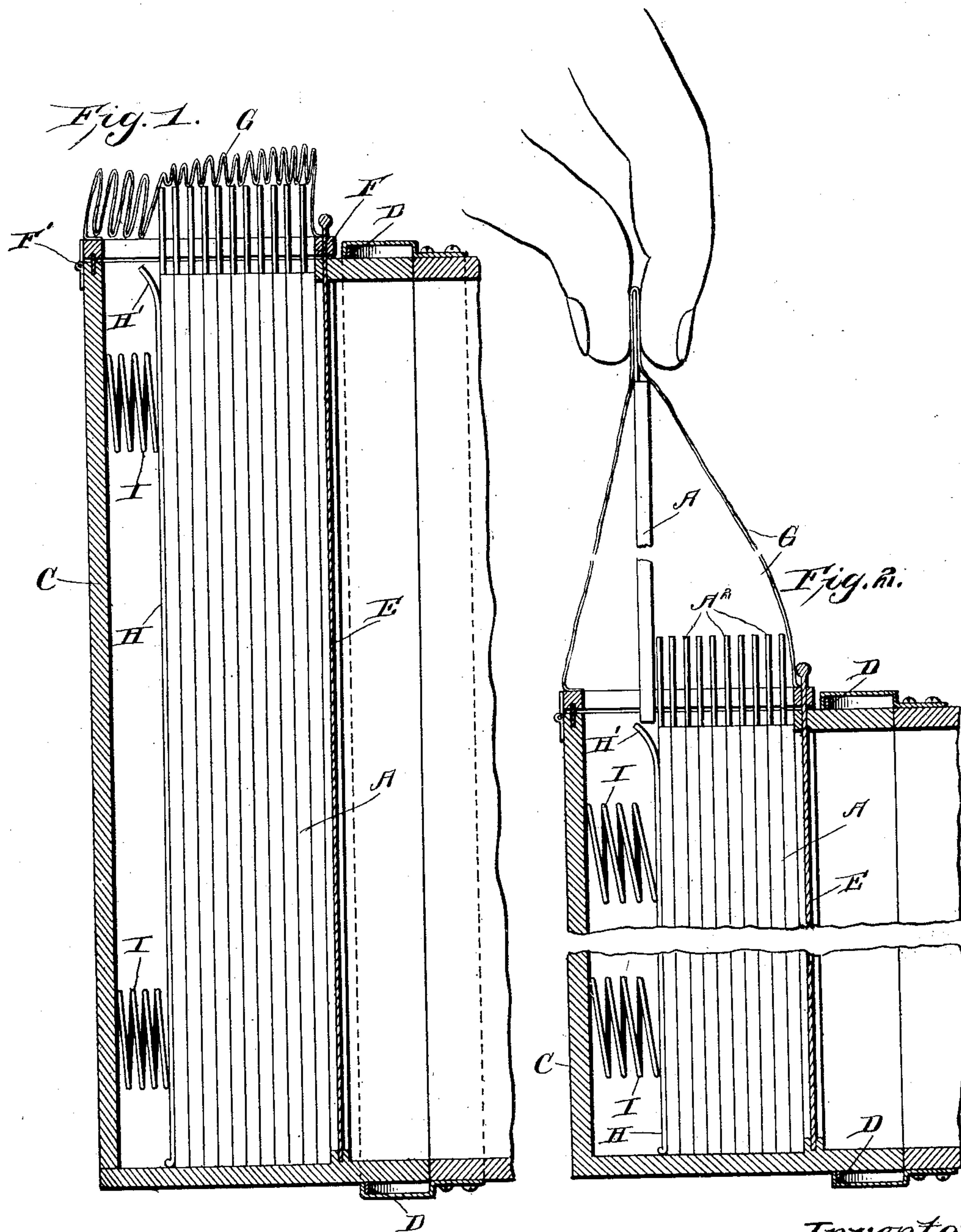
PATENTED NOV. 17, 1903.

L. DARLINGTON.
PLATE HOLDER CHANGING BOX FOR CAMERAS.

APPLICATION FILED DEC. 9, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses:

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L. H. Morrison

Inventor
Lionel Darlington

By *W. P. Jackson*
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2 SHEETS—SHEET 2.

Fig. 3.

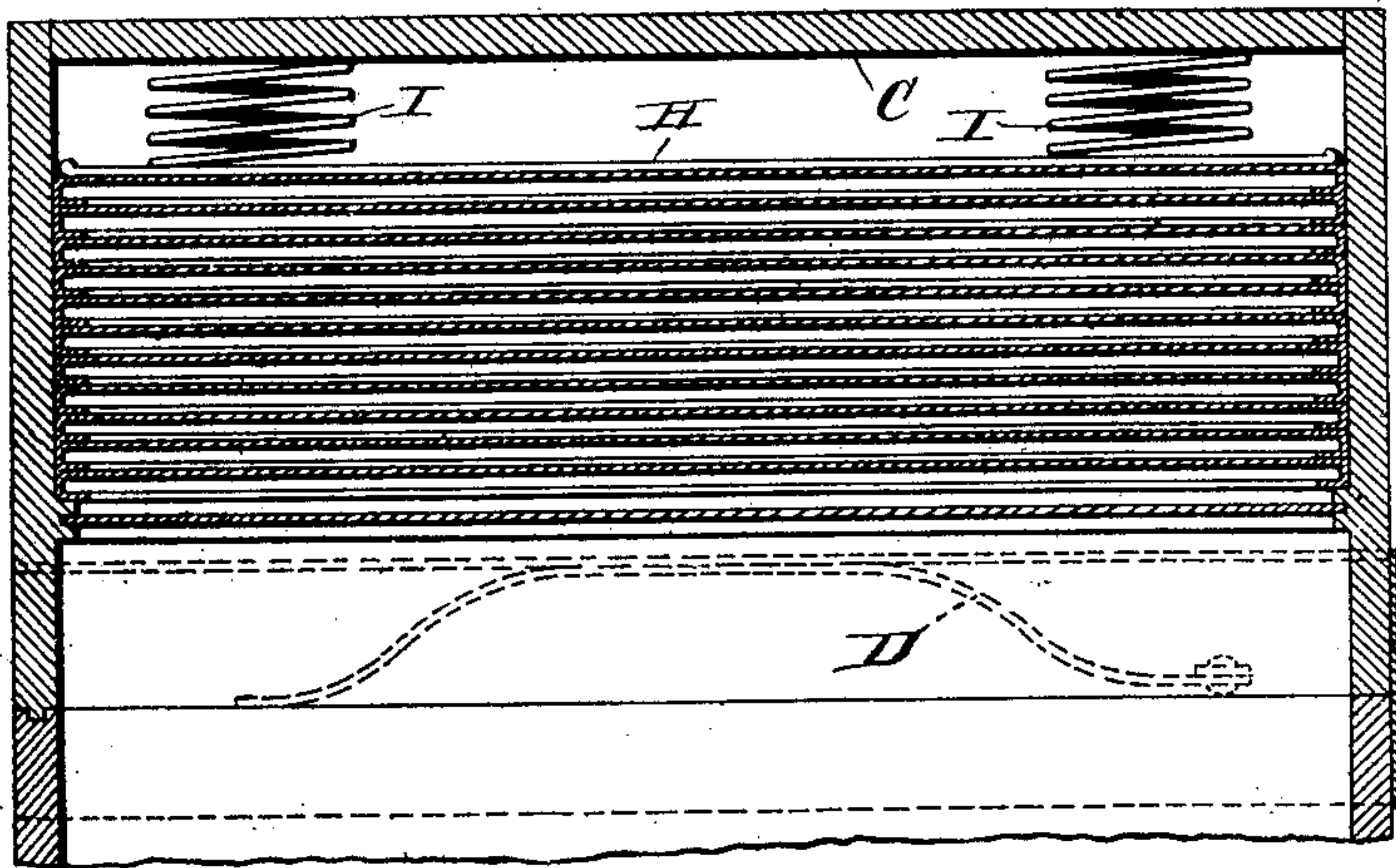
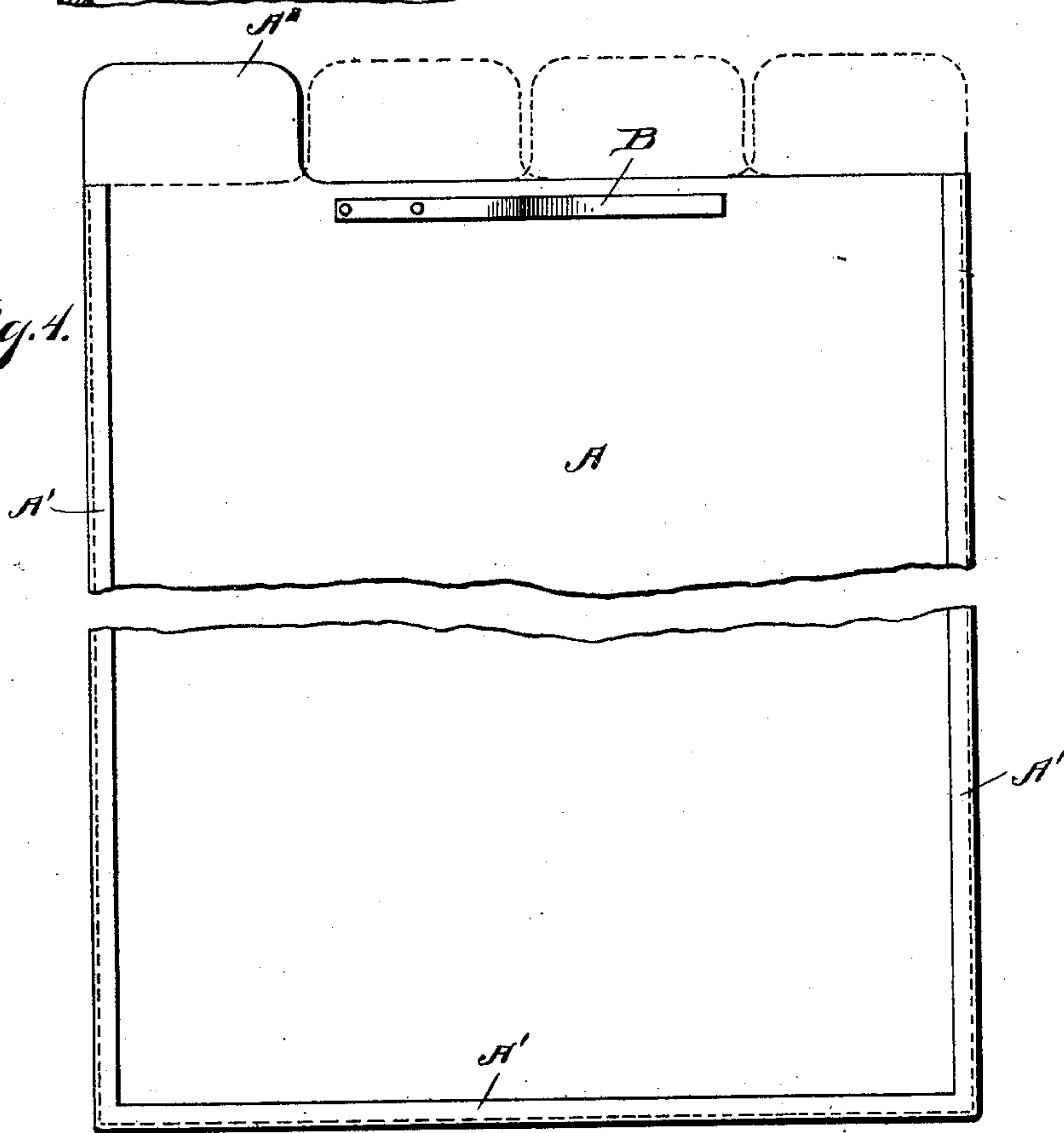


Fig. 4.



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UNITED STATES PATENT OFFICE.

LIONEL DARLINGTON, OF NEW YORK, N. Y.

PLATE-HOLDER-CHANGING BOX FOR CAMERAS.

SPECIFICATION forming part of Letters Patent No. 744,498, dated November 17, 1903.

Application filed December 9, 1902. Serial No. 134,566. (No model.)

To all whom it may concern:

Be it known that I, LIONEL DARLINGTON, a citizen of the United States, residing at New York, county of New York, and State of New York, have invented a certain new and useful Improvement in Plate-Holder-Changing Boxes for Cameras, of which the following is a specification.

My invention relates to a new and useful improvement in plate-holder-changing boxes for cameras, and has for its object to provide a box to be detachably secured to the rear of the camera, in which a number of plate-holders are held, and one side of this box being made of flexible material, so that the operator can grasp the plate-holders and change them from the front to the rear as they are exposed without admitting any light to the box; and a further object of my invention is to so construct the plate-holders and box that the weight of the whole apparatus will be comparatively little.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claim.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a horizontal section through my improved plate-holder-changing box, showing the same attached to the rear of a camera ready for use; Fig. 2, a similar view to Fig. 1, showing a plate-holder containing an exposed plate placed at the rear of the other plate-holder; Fig. 3, a cross-section through the plate-holder-changing box; Fig. 4, a face view of one plate-holder.

A represents the plate-holder which, for the sake of compactness is made of thin sheet metal, preferably aluminium, three of its edges being turned over, as indicated at A', the plate being adapted to be slid behind these turned-over edges, and a thin flat spring being secured at the open end of the plate-holder, as indicated at B, prevents the accidental displacement of the plate after once

inserted in the holder; but by forcing this spring B downward the plate can be easily removed from the same.

A² represents lugs extending outward from the plate-holder, by which the plate-holder is to be grasped in manipulating the same in the plate-holder-changing box. These lugs are arranged at different points along the open end of the plate-holder, as indicated in dotted lines in Fig. 4, so that all of the lugs do not come in line with one another, only every third or fourth one being in line, so that room will be left between the lugs so that the same can be grasped by the fingers.

C represents the plate-holder-changing box, the front of which is adapted to be secured to the rear of the camera by any suitable means, here shown as springs D, so as to make a light-tight connection therewith. This front end of the box is open, but can be closed by means of a slide E, so that light will be excluded from the box when the box is removed from the camera. One end of the box is made in the form of a frame, as indicated at F, and hinged to the box at the point F'. The frame and box have grooves for the reception of the light-excluding strip F². This frame has secured to it a flexible covering G, of rubber, cloth, or other light-proof material, and this covering G is convoluted or folded, so that the same can be extended a considerable distance outward from the side of the box—that is, a distance more than the length of one of the plate-holders. Inside of the box is arranged a plate H, the end which is next to the frame F being bent rearward on a slight curve, as indicated at H'. Interposed between this plate H and the rear of the box C are a series of springs I, which tend to force the plate H toward the front of the box.

In filling the box in a dark room the frame F is swung back, and then a number of plate-holders are inserted in the box between the front of the box and the front of the plate H, the plate H being forced rearward as the plate-holders are inserted. All of the plate-holders are so inserted in the box that the plates are exposed toward the front of the box or the slide E. Then by closing the frame F the plates are confined in a light-tight box,

and after the camera has been focused and the ground glass removed the box C is simply attached to the rear of the camera, the slide E removed, and then the first plate can
5 be exposed at once. After this plate is exposed the operator grasps the center of the covering G and by feeling with his fingers grasps the lug of the front plate-holder and withdraws the same. As soon as this front plate-
10 holder is withdrawn the springs I will act to instantly force the next plate in place of the one removed. Then the operator carries the plate-holder, with the exposed plate, to the rear and inserts the same between the last
5 plate-holder and the plate H, as shown in Fig. 2. The curved end H' of the plate H facilitates the inserting of the holder. Thus all of the plates may be exposed without admitting any light to the box.
20 The advantage of my invention is that a large number of plates can be carried, and in carrying a dozen plates the weight will not be as great as one-half dozen plates in individual holders, and an apparatus which will
25 hold a dozen plates will not take up as much room as three holders in which one-half dozen plates are held, and at the same time all of the holders are together in a compact form and may be carried attached to the camera
30 or separate, as desired, and there being no complicated parts the apparatus is not liable

to get out of order or become damaged in any way.

Of course I do not wish to be limited to the exact construction here shown, as slight 35 modifications could be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is—

In a device of the character described a 40 box having an open front, a frame hinged on the top of the box, the said frame and box having coinciding grooves, light-excluding strips in the grooves, the front section of the frame and the top of the box having corre- 45 sponding slots, a slide in the slots, a flexible covering secured to the hinged frame, plate-holders each comprising a strip of metal having its sides bent in to embrace edges of a plate and having a lug at the top, a follower- 50 plate in the box, having a rearwardly-curved upper end, a camming-surface and springs interposed between the follower-plate and the rear of the box.

In testimony whereof I have hereunto af- 55 fixed my signature in the presence of two subscribing witnesses.

LIONEL DARLINGTON.

Witnesses:

RUDY COLE,
FREDERIC W. ERB.