No. 694,926. Patented Mar. 4, 1902.

D. H. HOUSTON.

DAYLIGHT LOADING PHOTOGRAPHIC ROLL HOLDER.

(Application filed Mar. 19, 1901.)

(No Model.)

Fig. 1.

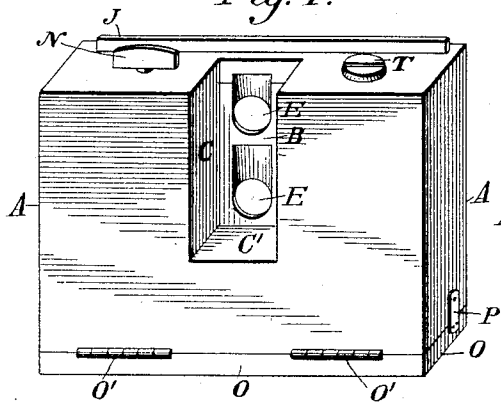


Fig. 2.

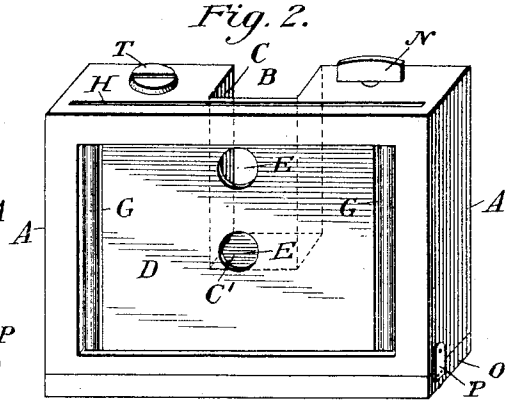


Fig. 3.

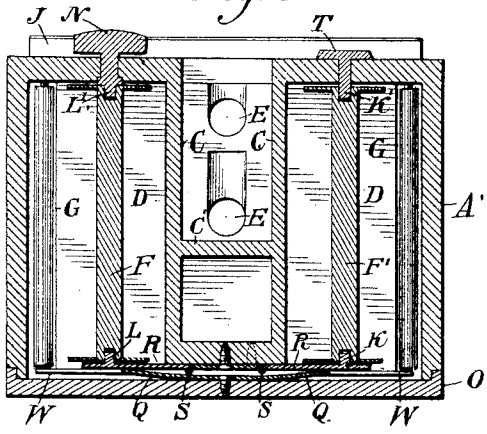


Fig. 4.

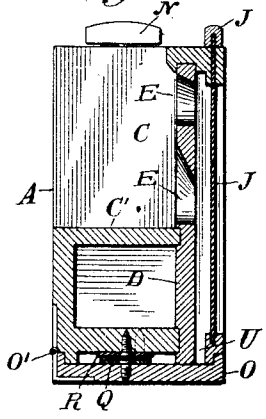


Fig. 5.

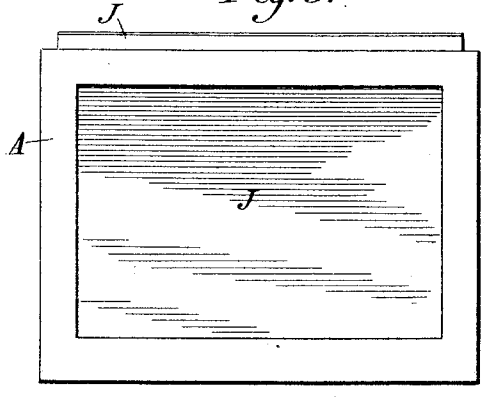
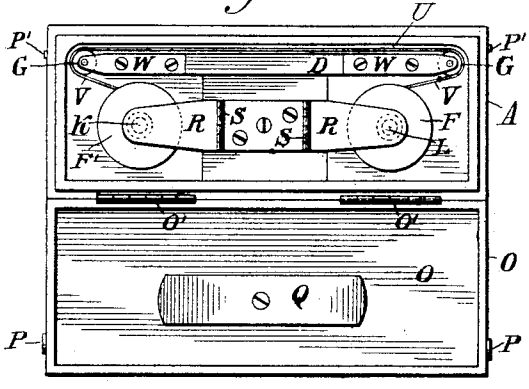


Fig. 6.



Witnesses

R. A. Balderson

Alex. Scott

Inventor

David Henderson Houston

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

DAVID HENDERSON HOUSTON, OF HUNTER, NORTH DAKOTA.

DAYLIGHT-LOADING PHOTOGRAPHIC-ROLL HOLDER.

SPECIFICATION forming part of Letters Patent No. 694,926, dated March 4, 1902.

Application filed March 19, 1901. Serial No. 51,959. (No model.)

To all whom it may concern:

Be it known that I, DAVID HENDERSON HOUSTON, a citizen of the United States, residing at Hunter, in the county of Cass and State of North Dakota, have invented certain new and useful Improvements in Daylight-Loading Photographic-Roll Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improved roll-holder for use in photographic cameras and in which roll-holder can be used cartridges of sensitized film having a light-tight wrapper.

One object of my invention is to provide an improved roll-holder which is made to separate from the camera and permit the use of plate-holders in the same camera, so that the roll-holder and plate-holder can be used interchangeably in the same camera.

Another object of my invention is to produce a simply-constructed roll-holder having two compartments for holding the rolls of sensitized film and a film-support having one or more sight-apertures therethrough and a novel construction whereby the reel-spool and the supply-roll of film are introduced into the roll-holder through a door in one of the sides of the roll-holder casing and the wrapper of the sensitized film introduced through a slot U, while the reel and supply-spool are connected by said wrapper. My roll-holder casing has a sight-passage which leads to one or more sight-apertures in the film-support and which sight-apertures are close to the rear side of the wrapper of the sensitized film and through which sight-apertures can be observed numbers, letters, or indicia denoting the position of the sensitized film in the roll-holder.

My roll-holder consists of a photographic-roll holder suitable for using cartridge-rolls of sensitized film, the novel features of which are pointed out in the claims.

In the drawings similar characters of reference denote similar parts.

Figure 1 represents a perspective view of my roll-holder taken from the rear. Fig. 2 represents a perspective view of the roll-holder taken from the front and showing the film-support and sight-aperture therethrough and the guide-rollers. Fig. 3 represents a central perpendicular sectional view taken through the center of the supply-spool and the reel-spool. Fig. 4 represents a central perpendicular cross-sectional view taken through the center of the sight-aperture of the roll-holder. Fig. 5 represents a front view of the roll-holder with the front slide in place. Fig. 6 represents a view of the interior of the roll-holder with the bottom door opened and showing the ends of the guide-rollers journaled at each end of the film-support.

A designates the casing; B, the sight-passage; C, the walls of the sight-passage; C′, the bottom of the sight-passage; D, the film-support; E, the sight-apertures; F, the reel-spool; F′, the supply-spool; G, the guide-rollers; H, the slot for the front slide; J, the front slide; K, the lower pivot for the supply-spool; K′, the upper pivot for the supply-spool; L, the lower pivot for the reel-spool; L′, the reel-winding device; T, the screw-head of the pivot for the supply-spool; N, the winding-key; O, the door on the bottom of the roll-holder; O′, the hinges of the door; P, the catches on the door; P′, the pin that the door-catches fasten to; Q, the spring on the inside of the door; R, the folding supports for holding the center pivots for the reel and supply spools; S, the hinges of the folding supports; U, the slot through which the wrapper of the film is inserted into the roll-holder; V, the film and wrapper of the film; W, metal supports for the guide-rollers.

To operate the roll-rolder, open the door in the bottom of the roll-holder and then raise the reel and spool pivots by turning outward the supports R, which supports are hinged at S, and then disengage the end of the wrapper of the sensitized film and attach the end of the wrapper to a reel-spool in the usual manner and insert the edge of the wrapper as extended from the supply-roll to the reel into the slot U and around the guide-rollers, and the wrapper will pass into the roll-holder as the reel and supply-roll are passed into the roll-holder and placed upon the reel and supply spool centering devices, and by closing in the supports R the pivots carried thereon will pass into the centers of the reel and spool, and by closing the door the spring Q

will press upon the supports R R and hold the same in place and cause tension on the sensitized film as the film is wound forward by the reel-winding device. Next turn the winding-key of the reel-winding device forward until the first number, letter, or indicia on the wrapper of the film comes opposite to one of the sight-apertures in the film-support of the roll-holder, and thus prepared the roll-holder is ready to be inserted into a camera and used in the usual manner.

I claim—

1. In a photographic-roll holder the combination of a casing having a front opening, a slide in the said front opening, a film-support having a sight-aperture therethrough, said film-support having one of its edges disconnected from the casing, rounded guides for the sensitized film, said rounded guides positioned at opposite ends of the said film-support, the casing having a sight-passage leading from the outside of the casing to the said sight-aperture located in and through the said film-support, two compartments for holding the rolls of sensitized film, said compartments positioned on opposite sides of the said sight-passage, reel and spool centering devices in said compartments, folding supports carrying center pivots for the reel and supply spool, a reel-winding device in one of the compartments, and a door on the opposite end of the casing from the reel-winding device.

2. In a photographic-roll holder the combination of a casing having a front opening, a slide in the said front opening, a film-support having a sight-aperture therethrough, rounded film-guides positioned in line at the right and left ends of the film-support, the roll-holder casing having a sight-passage leading from the outside of the casing to the sight-aperture in the said film-support, two compartments for holding the rolls of sensitized film, said compartments positioned on opposite sides of the said sight-passage, a pivot for the supply-spool positioned in one compartment, a reel-winding device in one of the compartments, a supply-spool pivot and a reel-pivot positioned in the interior of the casing at the opposite interior side from the reel-winding device, said supply-spool pivot and said reel-pivot carried upon movable supports adapted to be moved from their position and when moved allow of the insertion into the roll-holder of a supply-spool and a reel-spool, and a door on the opposite end of the casing from the reel-winding device.

3. In a photographic-roll holder the combination of a casing having a front opening, a slide in the said front opening, two compartments for holding the rolls of sensitized film, a film-support attached to and carried upon the walls C, said film-support having one of its edges disconnected from the casing, the film-support having a sight-aperture, the casing having a sight-passage leading through its top and rear side to a sight-aperture located in and through the said film-supports, reel and spool centering devices in the compartments of the casing, supports carrying pivots for the reel and spool to center on, said supports adapted to fold outward and allow of the insertion of reel and supply spools into the reel and supply spool compartments of the roll-holder casing, a reel-winding device adapted to connect with and wind the reel, and a door on the opposite end of the casing from the reel-winding device.

In testimony whereof I affix my signature in presence of two witnesses.

DAVID HENDERSON HOUSTON.

Witnesses:

A. L. POPE,

WM. H. DE LACY.