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COMPLETE SPECIFICATION.

A Photographic Camera in the Shape of a Walking Stick Handle.

I, EMIL KRONKE, of 1 Lindenau Pl, Dresden in the Empire of Germany, Pianist, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement.

Photographic cameras enclosed within the handle of a walking stick, and thereby rendered particularly suitable for use in travelling, were described in the British Patent 13686 of 1891. Inasmuch, however, as those cameras are capable of receiving but a small number of "picture surfaces", i.e. plates or films, they necessarily permit only a correspondingly small number of photographic views to be taken unless an extra supply of spare films or plates be kept in reserve say in one's coat pocket or carried in a satchel or bag or otherwise so that the "surfaces" in the stick may be replaced by new ones when used up. Apart from other drawbacks, however, this exchange is a complicated operation which, in certain places and circumstances, may not without great inconvenience,—or not at all,—be carried out, more especially, where the "surfaces" to be dealt with are of the class which cannot be exposed to daylight.

Now this invention relates to a camera constructed in the shape of a walking stick handle, which differs from the two above mentioned arrangements in this particular, that, within the walking stick handle, room is provided not only for the camera itself and the set or "charge" of plates or films intended for its immediate operation, but in addition to this, for a number of extra sets, which are so arranged that their substitution for the sets previously exhausted can in each case be readily effected.

In the accompanying drawings

Fig. 1, is a vertical longitudinal section of the combined walking stick handle and photographic camera, showing its inner arrangement, while Figs. 2, 3, and 4 are sections of Fig. 1, along the lines A, B,—C, D, and E, F, respectively.

The crook-shaped handle is made of thin material and consists of two parts, *a* and *b*, the plane of division between which is vertical and parallel to the longitudinal axis of the handle. One part, *a*, which after the known manner of the lids of boxes, fits over a projecting rim of the other part *b*, is removable.

The interior cavity of the handle is divided by a vertical plate *c*, into two compartments *d* and *e*; the compartment *d*, forming the camera. The lens *f* of the camera is inserted into the front of the handle, which is provided with a light aperture. The shutter *g* by which this aperture is controlled, is placed within the camera compartment, in the rear of the lens. The shutter may be constructed for either time or "snap-shot" exposures. As shown in Fig. 2 by way of example only,—it may comprise a shutter consisting of two parts mounted on a hinge-pin common to both and adapted, when an exposure is desired, to swing open under the action of a pin *h* being drawn out axially by the operator.

The sensitized "picture surface" intended to be used in this camera is by

[*Prior Art.*]

Kronke's Photographic Camera in the Shape of a Walking Stick Handle.

preference a film-roll arranged for being changed in day-light. The roller carrying the unexposed film *i* is arranged behind the plate *c*, which plate at the same time serves the purpose of guiding the film and keeping it in the focal plane for exposure.

The roller or spool whereon the film band winds after exposure is placed in the hollow space *k*, of the neck of the handle, which space, for this purpose, is made inaccessible to light from above, by means of a screen *l*. The spindle *n* carries the receiving spool *m*, and is adapted to turn in the winding direction; A ratchet-wheel *o*, also mounted thereon, and a catch or pawl *p* engaging therewith prevent rotation in the wrong direction. The distance or extent to which the said spindle *n*, is to be turned, to cause the exact length of film, that has in each case been exposed, to be wound on the spool *m*, is marked by an index *q*, mounted on the button or knob *r* whereby the said spindle is turned, as illustrated in Fig. 3, a scale, as shown in Fig. 5, for the said index to move over, being placed around the said knob *r*, on the outer wall of the said space or casing *k*, see Fig. 5.

The compartment *e* of the crook-handle of the stick, in addition to accommodating the roll of unexposed film which is being used from, is at the same time utilized for storing an extra supply of film-rolls. The spools which carry the films are preferably made of thin metal. The bearers of these spools are hollow spindles or pins *s*, secured in the wall of the compartment *e* and slotted longitudinally so that the spools may readily be passed over them after which, owing to the resilience of the hollow bearers, the spools are securely held in place thereon; such resilience or spring action, at the same time operating, as a check or brake upon the film as it is delivered to the camera for exposure.

As the film rolls which it is proposed to employ in this camera are prepared for "changing in daylight", the exchange of a roll of film that has been exposed for a new one, may be effected with the utmost rapidity, when or wherever required. It is only necessary to remove the portion *a* which forms the lid or cover when all the spools in the handle will become accessible so that the film-renewing operation simply consists in removing the spool carrying the roll of film already exposed, transferring the spool which is empty and one of the spools of unused film, respectively, from one spindle to another, and then attaching the end of the new film to the empty spool for receiving the film after exposure, and shutting the lid; when all is once more ready for immediate use.

Assuming that spools or rollers of the size indicated in the drawings are employed,—these being calculated for twenty exposures each,—and that five such film rolls are inserted in the stick as shown, it will be seen that one filling or charge of the portable camera will be sufficient for one hundred photographic pictures.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:—

(1) A photographic camera in the shape of the handle of a walking stick, wherein, in the interior cavity of the handle, in addition to the chamber provided for a camera, there is also provided a space for the reception of a reserve-supply of film rolls; characterized by having a plate *c* placed within the handle in a vertical position,—which at the same time serves to retain the film in the proper focal plane, serves to separate a space *e* at the back of the camera sufficiently capacious to hold, besides the film-roll actually in use, a number of spare or reserve film rolls and by the spool receiving the film-band after exposure being enclosed within a space or chamber *k* provided in the neck of the walking stick handle and cut off from the camera-compartment *d* by a light-proof screen or diaphragm such as *l*.

(2) In a camera in the form of a walking stick handle as referred to in Claim 1, the construction of the casing or shell of the camera whereby the compart-

Kronke's Photographic Camera in the Shape of a Walking Stick Handle.

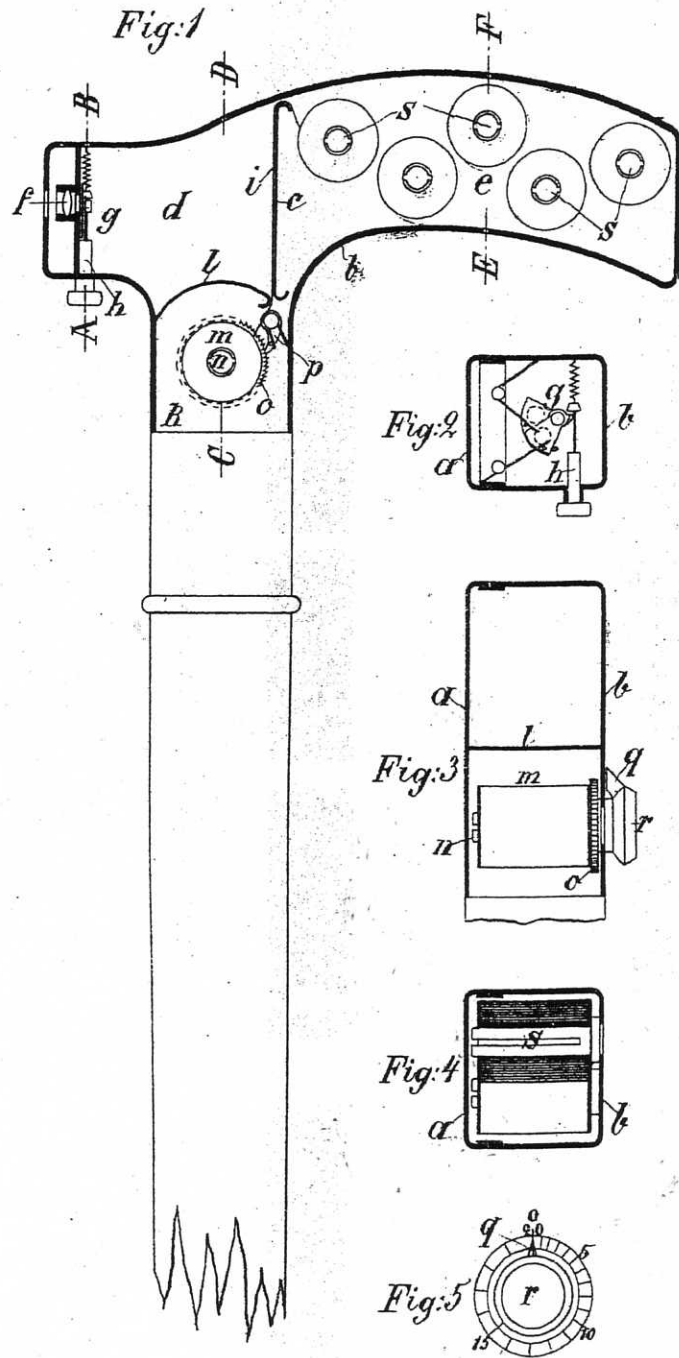
ments *d*, *e* and *k* are all made accessible simultaneously; the case being made in two parts *a* and *b* connected by means of a light-proof joint, and one part of which, say, *a*, is removable.

(3) In a camera case constructed in the shape of a walking stick handle, as referred to in Claims 1 and 2, comprising an arrangement, within the compartment or chamber *e*, for the proper location of both the film-roll actually in use and the reserve film-rolls; the use of spindles, such as *s*, secured in the wall of the said chamber or compartment and serving to receive the spools of the said-film rolls which spindles are split or slotted so as by their springiness or resiliency to hold the rolls of films securely and as regards the particular spool which is in use at the time, to exercise a check or brake action upon the delivery of the film from that roll.

(4) The improved walking-stick handle camera for daylight changing film rolls hereinbefore described and illustrated in the drawings.

Dated the 13th day of August 1902.

NEWNHAM BROWNE,
Agent for the Applicant.



[This Drawing is a reproduction of the Original on a reduced scale.]

