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Note.—Throughout this Gazette the names in Italics within parentheses are those of Communicators of Inventions.

Complete Specifications.

Patent Office, Perth,
17th January, 1902.

NOTICE is hereby given that the undermentioned Applications for the Grant of Letters Patent, and the Complete Specifications annexed thereto, have been accepted, and are now open to public inspection at this Office.

Any person or persons intending to oppose any of such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the first appearance of this advertisement in the Western Australian Government Gazette. A fee of Ten shillings (10s.) is payable with such notice.

Application No. 3695.—ARTHUR AUGUSTUS BROOKS, Engineer, and GEORGE ANDREW WATSON, Merchant, both of 23 Tower Buildings, Liverpool, England, "*Improvements in or connected with Photographic Cameras.*"—Dated 30th December, 1901.

Claims:—

1. The photographic apparatus for mechanically obtaining a succession of photographs upon plates or films carried in a magazine characterised by the following cycle of operations—After the magazine has been placed in the camera:—

- (1.) The magazine is withdrawn, the film or plate is retained in place.
- (2.) The magazine is returned to the camera, the upper edge of the film or plate having been pushed forward, so that the film or plate is in front of the magazine.
- (3.) The photograph is then taken.
- (4.) The magazine is again withdrawn.
- (5.) The magazine is returned, the edge of the film or plate being so directed that it takes its predetermined place in the magazine.

2. In combination with a photographic camera an apparatus adapted for receiving a number of films enclosed in a sealed magazine, unsealing the magazine, transferring each film in succession from the magazine to the exposure aperture, and returning it thereto after exposure, re-sealing the magazine and permitting its withdrawal without the entry of light, which apparatus consists of a magazine provided with a light-excluding cap, and adapted to retain by friction a number of films which are adapted to be seized one by one by the operating mechanism, a device for removing and replacing the cap while the magazine is in the camera; a combined dark slide and change box having a hollow light-excluding sliding shutter for closing the exposure aperture and adapted to receive the magazine; stops to engage the cap while the said device is being operated to remove and to replace the said cap and mechanism for transferring the films to the exposure aperture from the shutter, and returning them thereto in four full strokes of the said shutter.

3. The improved construction of combined dark slide and change box for photographic cameras, which consists in forming the light-excluding sliding shutter as in open-ended case or sheath adapted to hold a

film case containing several prepared films and providing suitable mechanism in the slide to be operated by the shutter in sliding for the purpose of transferring each film in succession from the shutter to the exposure aperture in the slide by one withdrawal and one return stroke, and guiding and returning to the shutter the film after exposure by the next two strokes, substantially as described.

4. The improved construction of magazine for charging combined dark slides and change boxes of photographic cameras, which consists of a rectangular box having an open end, a separate light-excluding cap such as *b* fitting outside, internal swellings such as *b7* at the sides, internal projections such as *b6* on the back near to the open end and pierced ears such as *b4* upon the top side for the attachment of the screw *c* substantially as described with reference to Figures 2, 3, 4, 5, and 6 of the drawings.

5. In combined dark slides and change boxes for photographic cameras having a hollow light-excluding sliding shutter into which a sealed case having a detachable cap containing a number of films is introduced, the herein described method of unsealing and re-sealing the case by means of a screw or equivalent device externally operated.

6. In combined dark slides and change boxes for photographic cameras, in which the films are withdrawn from and returned to an attachable and detachable magazine (forming the wrapper for the films and which has a light-excluding cap) previously inserted into the change box, the method of removing the cap before the exposure of the films and of replacing it after the exposure of the same, by means of mechanism mounted on the magazine and shutter such as a screw *c1* upon the magazine and of a rotatable stationary nut *d2* upon the end of the shutter adapted to engage the said screw, for the purpose of removing the cap from the magazine and replacing it while in the change box substantially as described with reference to Figures 2 to 6 of the drawings.

7. In change boxes for photographic cameras in which the operation of mechanically withdrawing each film from and returning it to the shutter is completed in four full strokes of the same, the method of arranging holes or depressions such as *a2* in the films for the mechanism to engage with by impressing or perforating the films near to their lower edges in pairs eccentrically and assembling the films in the shutter so that the holes or depressions in alternate films come opposite each other substantially as described with reference to Figures 1 and 11 of the drawings.

8. The method of retaining flat films in magazines of photographic cameras, by forming a detent such as *a* in the side edge or edges of the films and providing corresponding projections such as *b1* in the magazine to engage therewith so that the films thereby yield to pressure substantially as described with reference to Figures 1 and 4 of the drawings.

9. In combined dark slides and change boxes for photographic cameras in which the light-excluding sliding shutter forms a container for the films which are successively transferred from the shutter to the exposure aperture and after exposure returned to the shutter by means of mechanism operated by the said shutter during its withdrawal and depression in four full strokes, the method of guiding the detained film into the path of the shutter by means of a hinged finger or its equivalent pressing the film back so that as the shutter descends the film is received thereinto.

10. In combined dark slides and change boxes for photographic cameras having a hollow light-excluding sliding shutter into which is introduced a sealed case containing a number of films and having a detachable cap, adapted to be removed and replaced in the dark slide by a mechanical device, the method of detaining or seizing the films while being unmasked by the shutter by means of a hole or depression therein and a corresponding projection adapted to engage therewith once in every four strokes of the shutter.

11. In combined dark slides and change boxes for photographic cameras, having a hollow light-excluding sliding shutter in which a number of films are contained, the method of transferring each film from the shutter to the exposure aperture, and back again after exposure by means of suitable mechanism, operated by the sliding shutter in four movements in and out.



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