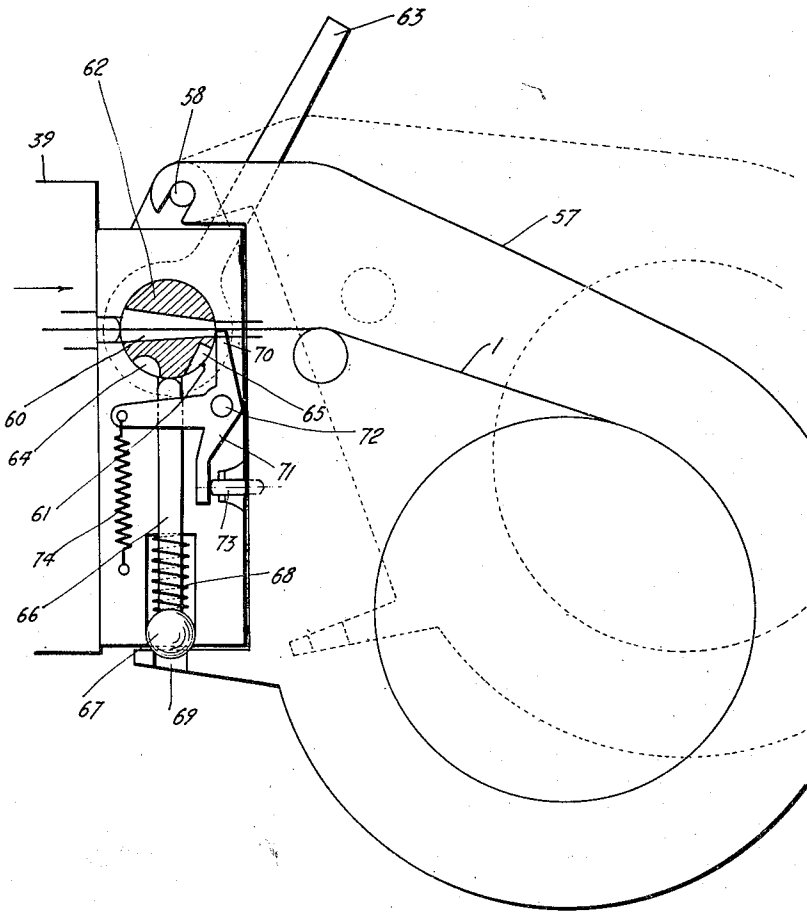


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A. V. L. C. DEBRIE
CAMERA HAVING FILM CUTOFF KNIFE
AND REMOVABLE MAGAZINE
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CAMERA HAVING FILM CUTOFF KNIFE AND
REMOVABLE MAGAZINE

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613,938. Divided and this application February
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20, 1945

3 Claims. (Cl. 95—11)

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This application is a division of application Serial No. 613,938, filed August 31, 1945, now Patent No. 2,458,769, dated January 11, 1949.

The invention relates to the combination of a camera and removable light sealing magazine-box. Said combination is so designed as the magazine box which is preferably of the type described in the copending application 617,398, filed September 19, 1945, now Patent No. 2,464,673, dated March 15, 1949, to be removable in broad daylight without danger of spoiling the film contained in said magazine-box. This result is obtained by means of a rotating element both for cutting the film and for closing the film passage, safety means being provided for preventing unintended movement of said rotating element if the magazine is not in its place.

The accompanying drawing shows in elevation, with parts in section, the combination of the camera and of the magazine-box.

The magazine box 57 is hooked on the apparatus 39 at 58. The film which comes out of the apparatus 39, passes through the slit 60, the edges 61 of which constitute a knife edge, of a cylinder 62 actuated by a lever 63, and enters the magazine-box 57 through a passage made light proof as usual, by velvet or the like (not represented). This cylinder outwardly carries two notches 64 and 65. In the notch 64 may enter a rod 66 pushed by a ball-locking device 67 subjected to the action of a spring 68 and which may enter a recess 69 in the magazine box 57. On the other hand, in the notch 65 may enter the tip 70 of a lever 71 pivotally mounted about a spindle 72. This lever is subjected on the one hand to the action of a sliding finger 73 and on the other hand to that of a retracting spring 74.

When the magazine is in position on the apparatus (position shown in continuous lines on the figure) the finger 73, which is urged inwardly by the box, bears on the lever 71 against the action of the spring 74 and the lever tip 70 is drawn away from the cylinder 62. The knife may then be freely rotated, by means of the lever 66. However so long as the knife edge is in the position of opening, as shown, the ball-locking device 67 prevents the magazine from being detached. On the contrary, if the knife is in the closed position, the rod 66 falls into the notch 64, that is, after the cutting operation is completed, the rod 66 is released and unlocking of the box becomes possible (position shown in discontinuous lines). But at that moment, the finger 73 no longer bears on the lever 71; the tip 70 thereof can therefore fall into the notch 65 whereupon any movement of the knife is rendered impossible.

What I claim is:

1. In the combination of a camera and a re-

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movable magazine-box, a rotary knife acting as a light seal mounted in the camera at the outlet of the magazine-box, a lever actuating said rotary knife, means mounted in the camera and acted upon by said rotary knife for locking the magazine-box on the camera means whereby the rotation of said knife from the unsealing to the cutting and light sealing position releases the locking means of the magazine box on the camera, and means, whereby the removing of the magazine box locks the rotary knife in the light sealing position.

2. In the combination of a camera and a removable magazine box, a rotary cylinder mounted in the camera at the outlet of the magazine box and comprising a transverse passage with cutting edge for the film, a lever actuating said rotary cylinder, means mounted in the camera and acted upon by said rotary cylinder for locking the magazine box on the camera means whereby the rotation of said cylinder from the unsealing to the cutting and light sealing position releases the locking means of magazine box, and means whereby the removing of the magazine box locks the rotary knife in the light sealing position.

3. In the combination of a camera and a removable magazine box comprising a recess, a rotary cylinder mounted in the camera at the outlet of the magazine box and comprising a transverse passage with cutting edge for the film and two notches, a sliding rod one end of which is able to enter the first of said notches, a spring urged locking device cooperating with the other end of said rod and able to enter the recess of the magazine box, a spring urged lever pivoted on the camera and an arm of which is able to enter the second notch of the cylinder, a sliding finger mounted in the camera cooperating with another arm of said lever and urged by said arm so as to protrude out of the camera when the first arm of said lever enters the second notch of the cylinder and to be repelled into the camera by the magazine box when in place on the camera.

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