

RESERVE COPY PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

Improvements in or relating to Roll-film Box Cameras.

I, MAX BALDEWEG, of Wilischstrasse 1, Dresden A.21, Germany, a German Citizen, 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:—

This invention relates to roll-film box cameras having a film carrier slidably removable from the camera casing.

Roll film cameras are already known in which small photographs, about half the size of the back of the camera, can be obtained, so that about twice as many photographs can be obtained from a film of the same length as one employed in a box camera adapted to take a photograph almost equal in size to the back of the camera. Such roll film cameras adapted for taking small pictures could not be used for taking larger pictures.

The object of the present invention is to enable photographs of different size to be taken with a single camera.

According to the invention the slidably removable film carrier of the roll-film box camera is provided with a removable apertured opaque back screen having an exposure aperture equal in height to about one half or one third of the height of the normal picture area. The front of the film carrier is kept at such a distance from the front of the camera casing that the removable screen can be stored between the film carrier and the front of the camera casing when not required for taking smaller pictures.

To secure the screen to the film carrier, it is preferably provided with bent edges which engage or grip the sides of the film carrier at the back thereof. The sides of the film carrier may also be engaged and gripped at the front by the bent edges of the screen when the screen is out of use at the front of the film carrier, and rattle may thus be prevented.

The sides of the film carrier and the edges of the screen may be provided with inter-engaging projections and holes or recesses for detachably securing the screen to the film carrier. The screen may have side lugs to engage staples or brackets on the sides of the film carrier; in such case

the engagement of the lugs with the staples or brackets, in conjunction with the inter-engaging projections and holes or recesses, will assist in more firmly securing the screen to the film carrier. The staples or brackets may also be arranged to prevent any play between the film carrier and camera casing, especially if they are bent slightly outwards and made resilient. Alternatively, any play between the film carrier and the casing may be prevented by providing ribs or projections on the sides of the film carrier and on the front thereof, the front ribs or projections extending through the aperture in the screen (when the latter is stored at the front) and pressing against the partition provided across the front of the camera casing.

The accompanying drawing illustrates the manner in which the invention can be carried out. Fig. 1 is a side view partly in section of a roll-film box camera with the screen in use. Fig. 2 is a perspective view of the screen and Fig. 3 is a detail view of a modified fastening.

The sides of the film carrier 1 support sloping walls 2 and film spool clips 3 which retain the film spools 4 in recesses 5. The front 6 of the film carrier is usually fitted with an auxiliary lens 7. A screen 8 having a small exposure aperture 9 has its side edges bent over to form laps 10 which may be the full length of the screen 8 or shorter. To secure the screen 8 in position for use as illustrated in full lines in Fig. 1 and in a position out of use at the front of the film carrier, as shown in dotted lines, indentations or projections 11 may be formed in or on the laps 10. To further secure the screen 8 in position, lugs 10a may extend from the laps 10 to engage staples, brackets or sockets 12 on the sides of the film carrier. The laps 10 may in such case be omitted, the lugs 10a directly adjoining the edge of the screen 8. The staples or brackets 12 may also be bent outwards to resiliently engage the inside of the camera casing in order to prevent rattle. Alternatively, projections 13 may be provided on the sides of the film carrier to engage the inside of the camera casing and similar projections 14

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on the front 6 of the film carrier may engage the usual partition across the front of the camera casing. In such case the projections 14 will be so arranged that they will pass through the aperture 9 in the screen 8 when the latter is stored at the front of the film carrier.

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. In or for a roll-film box camera having a slidably removable film carrier, a removable apertured opaque back screen having an exposure aperture equal in height to about one half or one third of the height of the normal picture area and adapted to be stored, when not in use, between the front of the film carrier and the front of the camera casing.

2. In or for a camera as defined in claim 1, a screen as claimed in claim 1 provided with bent edges which engage or grip the sides of the film carrier.

3. In a camera having the features

claimed in claim 1 or 2, means for detachably securing the screen to the film carrier comprising inter-engaging projections and holes or recesses.

4. In a camera having the features claimed in claim 1, 2 or 3, lugs on the edges of the screen for engaging staples, brackets, sockets or the like on or in the sides of the film carrier.

5. In a camera having the features claimed in any of the preceding claims, projections on the sides and front of the film carrier for engaging the camera sides and the partition across the front of the camera casing.

6. A roll-film box camera having the film carrier fitted with a removable apertured back screen substantially as herein described with reference to the accompanying drawings.

Dated this 20th day of November, 1931.

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

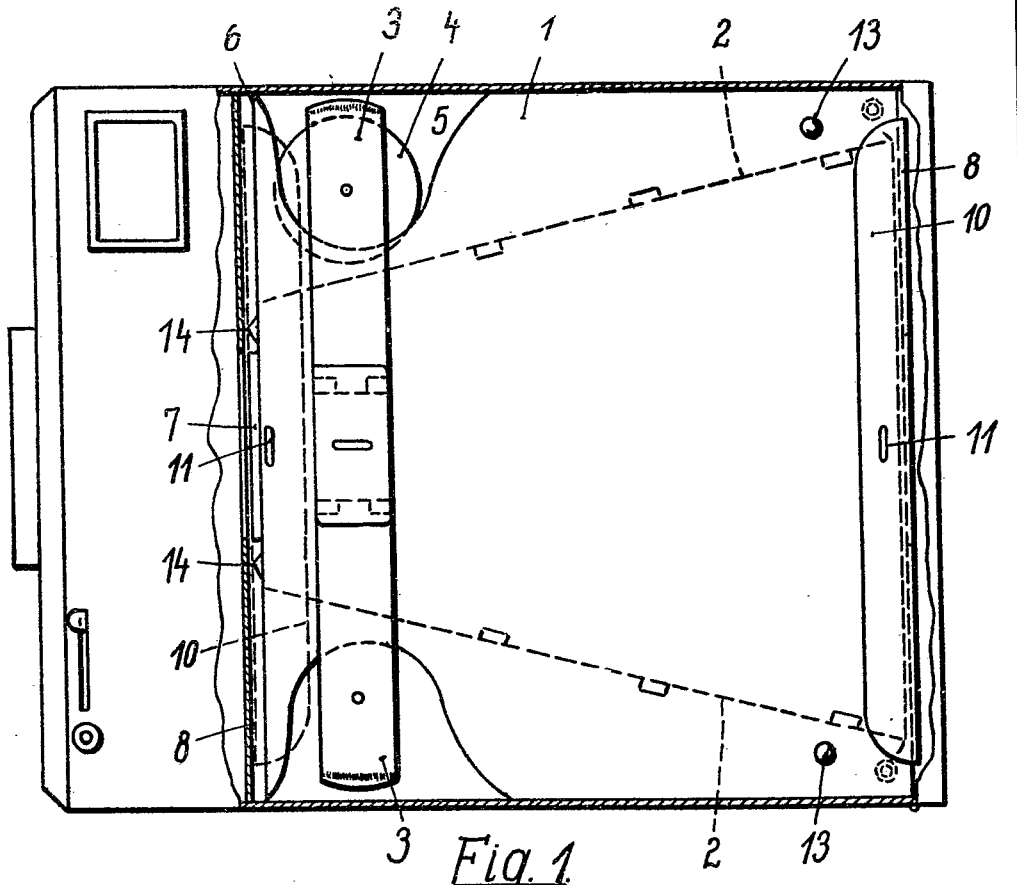


Fig. 1

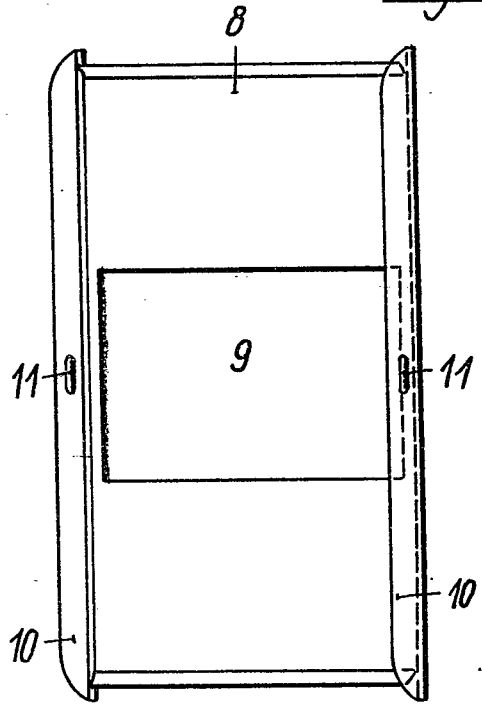


Fig. 2

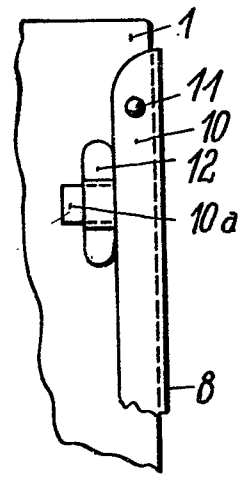


Fig. 3