

PATENT SPECIFICATION

DRAWINGS ATTACHED

1.138.138

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Date of Application and filing Complete Specification: 16 Aug., 1967.

No. 37708/67.

Application made in Germany (No. R33592/57aGbm) on 27 Sept., 1966.

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COMPLETE SPECIFICATION

Strap Fitting for Monocular Mirror-Reflex Cameras

We, FRANKE & HEIDECHE G.M.B.H., a German Body Corporate trading as Rollei-Werke Franke & Heidecke, of 196, Salzdhumerstrasse, Braunschweig, Germany, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The invention relates to a strap fitting for monocular mirror-reflex cameras.

In most types of camera the strap fitting and carrier strap are so mounted that the camera hangs in the most convenient carrying position, since the carrier strap in general serves only as safety device in actual photographing. On the other hand in the case of mirror-reflex cameras the carrier strap is utilised even during the exposure — possibly appropriately shortened. In the case of binocular mirror-reflex cameras therefore the strap is so fastened that the camera always hangs in the same position on the strap.

According to the present invention there is provided a strap fitting for monocular mirror-reflex cameras, comprising a carrier strap eye rotatable on each side wall of the camera about an axis of rotation co-axial or substantially co-axial with the axis of gravity of the camera extending transversely to the optical axis. In one particular embodiment the axis of rotation of the eyes lies on the side of the axis of gravity away from the objective lens, so that the camera seeks to achieve a vertical position of the optical axis in which the objective is directed downwards. The camera focussing knob will preferably also be co-axial with the same transversely extending axis of gravity. This has a series of advantages in monocular mirror-reflex cameras. Since this type of camera is used with inter-changeable objectives, the objective replacement is more convenient if it can be effected looking towards the front of the camera. The same applies to adjustments and settings at the objective itself, such as are

necessary especially in the case of objectives with long focal length.

Furthermore it is possible to convey the camera with the objective hanging downwards, and to impart every desired inclination of the optical axis to the camera even during exposures. So that in this rotation the strap itself is not stressed by buckling or the strap eyes do not scrape the fittings, that is to say the rotation actually takes place in the axis of rotation of the fitting, the carrier strap eyes and snap hooks engaging the eyes are elongated tangentially to the axis of rotation, so that the hook-eye connection is rigid in the direction of rotation of the fitting.

A constructional embodiment of the invention will now be described, by way of example, with reference to the accompanying drawing, wherein:—

Figure 1 shows a perspective side view of a monocular mirror-reflex camera;

Figure 2 shows a lateral elevation of a snap hook; and

Figure 3 shows a view taken along line III/III of Figure 2.

The discs 3, which are provided with elongated eyes 4, are rotatably mounted co-axially with the rotatable knob 2 on the camera side wall. The snap hooks 5, which are closed by the flaps 6 of a U-shaped resilient stirrup 7, are designed to fit these eyes 4. Thus the pivoting movement of the camera is actually limited to the rotation of the discs 3.

WHAT WE CLAIM IS:—

1. A strap fitting for monocular mirror-reflex cameras, comprising a carrier strap eye rotatable on each side wall of the camera about an axis of rotation co-axial or substantially co-axial with the axis of gravity of the camera extending transversely to the optical axis.

2. A strap fitting for monocular mirror-reflex cameras as claimed in claim 1, wherein the axis of rotation of the eyes is on the side of the axis of gravity away from the objective lens, so that the camera seeks to assume a ver-

[Price 4s. 6d.]

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The invention relates to a strap fitting for monocular mirror-reflex cameras.

In most types of camera the strap fitting and carrier strap are so mounted that the camera hangs in the most convenient carrying position, since the carrier strap in general serves only as safety device in actual photographing. On the other hand in the case of mirror-reflex cameras the carrier strap is utilised even during the exposure — possibly appropriately shortened. In the case of binocular mirror-reflex cameras therefore the strap is so fastened that the camera always hangs in the same position on the strap.

According to the present invention there is provided a strap fitting for monocular mirror-reflex cameras, comprising a carrier strap eye rotatable on each side wall of the camera about an axis of rotation co-axial or substantially co-axial with the axis of gravity of the camera extending transversely to the optical axis. In one particular embodiment the axis of rotation of the eyes lies on the side of the axis of gravity away from the objective lens, so that the camera seeks to achieve a vertical position of the optical axis in which the objective is directed downwards. The camera focussing knob will preferably also be co-axial with the same transversely extending axis of gravity. This has a series of advantages in monocular mirror-reflex cameras. Since this type of camera is used with inter-changeable objectives, the objective replacement is more convenient if it can be effected looking towards the front of the camera. The same applies to adjustments and settings at the objective itself, such as are

necessary especially in the case of objectives with long focal length.

Furthermore it is possible to convey the camera with the objective hanging downwards, and to impart every desired inclination of the optical axis to the camera even during exposures. So that in this rotation the strap itself is not stressed by buckling or the strap eyes do not scrape the fittings, that is to say the rotation actually takes place in the axis of rotation of the fitting, the carrier strap eyes and snap hooks engaging the eyes are elongated tangentially to the axis of rotation, so that the hook-eye connection is rigid in the direction of rotation of the fitting.

A constructional embodiment of the invention will now be described, by way of example, with reference to the accompanying drawing, wherein:—

Figure 1 shows a perspective side view of a monocular mirror-reflex camera;

Figure 2 shows a lateral elevation of a snap hook; and

Figure 3 shows a view taken along line III/III of Figure 2.

The discs 3, which are provided with elongated eyes 4, are rotatably mounted co-axially with the rotatable knob 2 on the camera side wall. The snap hooks 5, which are closed by the flaps 6 of a U-shaped resilient stirrup 7, are designed to fit these eyes 4. Thus the pivoting movement of the camera is actually limited to the rotation of the discs 3.

WHAT WE CLAIM IS:—

1. A strap fitting for monocular mirror-reflex cameras, comprising a carrier strap eye rotatable on each side wall of the camera about an axis of rotation co-axial or substantially co-axial with the axis of gravity of the camera extending transversely to the optical axis.

2. A strap fitting for monocular mirror-reflex cameras as claimed in claim 1, wherein the axis of rotation of the eyes is on the side of the axis of gravity away from the objective lens, so that the camera seeks to assume a ver-



tical position of the optical axis in which the objective lens is directed downwards.

- 5 3. A strap fitting for monocular mirror-reflex cameras as claimed in claim 1 or 2, further comprising snap hooks engaging the eyes, which eyes and hooks are elongated tangentially to the axis of rotation so that the hook-eye connection is rigid in the direction of rotation of the fitting.

- 10 4. A strap fitting on a monocular mirror-reflex camera substantially as described with reference to and as illustrated in the accompanying drawing.

5. A monocular mirror-reflex camera having a strap fitting as claimed in any one of claims 1 to 4, and a focussing knob the longitudinal axis of which is co-axial or substantially co-axial with the transversely extending axis of gravity. 15

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