

1.133.558



# PATENT SPECIFICATION

DRAWINGS ATTACHED

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## COMPLETE SPECIFICATION

### Photographic Camera with Flash Contact

We, FRANKE & HEIDECKE G.M.B.H., a German Body Corporate, trading as ROLLEI-WERKE FRANKE & HEIDECKE, of P.O. Box 419, 33 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 photographic camera with flash contact and particularly a camera with a between-lens shutter.

The flash contact for flashlight photography has to take place, as is well known, at the moment when the shutter is fully open. It is therefore an obvious step to utilize the blade drive ring for operating the flash contact. Particularly in the case of short exposure times and the correspondingly high speed of travel for the blade drive ring, the time available for the closing of the contact is extremely short, so that special means are required to enable accurate contact to be produced, without the phenomenon of "chatter."

According to the present invention there is provided a photographic camera having a rotatable master drive member comprising two pawls which act on a shutter blade drive member during continuous rotation of the master drive member when released and a lug engaged by a release lever, when the master drive member is cocked, said lug engaging a rotatable member which carries a projection, whereby when the drive member pawls act on the shutter blade drive member to open the shutter, the projection engages a flash contact pawl which operates a flash contact.

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

Figure 1 shows a view of the device which is the subject of patent Specification No. 1109036; and

Figure 2 shows a side view of the camera in the cocked position.

On a stud 1 there is mounted a master drive member 2 comprising a spring-loaded pawl 3, a fixed pawl 4 and a tail having a bent-over lug 5. The lug 5 is engaged by a latch end of a double-armed release lever when the drive member 2 is cocked. When released the drive member 2 rotates in the direction of arrow "A" and pawl 3 engages pin 7 of a shutter blade drive member mounted on stud 6 and moves it to the position shown in Figure 1 to open the shutter. As the member 2 rotates further from the position shown in Figure 1 pawl 4 engages pin 8 on the shutter blade drive member and rotates the latter in a clockwise direction until pin 8 no longer lies in the path of pawl 4 whereby the shutter is closed.

When the drive member 2 is cocked in the direction opposite to that shown by arrow "A" the pawl 4 can rotate past the pin 8 while the spring on the pawl 3 gives to allow the pawl to slide over the pin 7.

As shown in Figure 2 the lug 5 engages a fork 9 on a segment 10 pivotably mounted on a stud 11 adjacent a cam 12 mounted on cocking shaft 13. When the shaft 13 is rotated the segment 10 is pivoted in an anti-clockwise direction "B" and fork 9 acts on lug 5 whereby the member 2 is cocked. When the member 2 is released the lug 5 moves the fork 9 and then segment 10 so that the projection 14 on segment 10 engages a rotatable pawl 15 the other end 16 of which operates a flash contact 17 when the pawls 3 and 4 are in the position shown in Figure 1 and the shutter is open. On the cocking of member 2, i.e. or movement of the segment 10 in the anti-clockwise direction "B," the projection 14 slides underneath pawl 15 and moves end 16 away from contact 17 so that the contact is not operated. The spring 18 normally holds pawl 15 in an inoperative position as shown in Figure 2.

**WHAT WE CLAIM IS:—**

1. A photographic camera having a rotatable master drive member comprising two pawls which act on a shutter blade drive member to open and close the shutter, respectively, during continuous rotation of the master drive member when released and a lug engaged by a release lever when the master drive member is cocked, said lug engaging a rotatable member which carries a projection, whereby when the respective drive member pawl acts on the shutter blade drive member to open the shutter the projection engages a flash contact pawl which operates a flash contact.
2. A camera as claimed in claim 1, wherein the rotatable member comprises a segment having a fork engaged by the lug and wherein there is provided a cam on a cocking shaft

which cam engages and rotates the segment and thereby moves the lug upon cocking of the camera. 20

3. A camera as claimed in claim 1 or 2, wherein the flash contact pawl is rotatably mounted, is normally held in an inoperative position and is rotated by the projection in a direction opposite to that in which it operates the flash contact when the camera is cocked. 25

4. A photographic camera as claimed in claim 1, substantially as described with reference to and as illustrated in the accompanying drawings. 30

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