

1.154351



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PATENT SPECIFICATION

DRAWINGS ATTACHED

1.154351

Date of Application and filing Complete Specification: 12 May, 1966.
No. 21018/66.

Application made in United States of America (No. 471,182) on 12 July 1965.
Complete Specification Published: 4 June, 1969.

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Index at acceptance:—G2 A1G; H2 E(3A1, 3A2, 3A6C, 3E3B, 3E3D)

Int. Cl.:—G 03 b 15/04

COMPLETE SPECIFICATION

Photoflash Socket

We, EASTMAN KODAK COMPANY, a Company organized under the Laws of the State of New Jersey, United States of America, of 343, State Street, Rochester, New York 14650, United States of America (Assignees of PAUL JUSTEN ERNISSE), 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:—

This invention relates to flash photography, and more particularly, to a socket for receiving a multilamp photoflash package such as disclosed, for example, in our copending application No. 52324/65 (Serial No. 1,131,106).

In accordance with the present invention there is provided a one-piece, photoflash socket to detachably retain a multilamp package having a connecting base with retaining lugs, wherein the socket has a hollow body portion and integral retaining fingers engageable with the retaining lugs of a package.

In the accompanying drawing:—

Fig. 1 is a plan of a one-piece socket constructed in accordance with one form of the present invention; and

Fig. 2 is a cross section taken on the line 2—2 of Fig. 1, showing the socket with a multilamp package attached.

Referring to the drawing, a one-piece multilamp receiving socket 10 comprises an annular body portion 12 with a top wall 13 defining a central access opening 14 in the shape shown. An integral base 15 at the lower end of body 12 defines an upwardly extending stabilizing stud 16.

Also extending upwardly from the base 15 are a plurality of resilient retaining fingers 17 having engaging projections 18 defining upper cam surfaces 19 and lower latch surfaces 20.

As illustrated, socket 10 also includes a

control ring 23 with indexing notches 24 to control the position of the socket by an indexing mechanism (not shown), such as disclosed in our copending application No. 21221/66 (Serial No. 1,154,352). As is also disclosed in that application, the central stabilizing stud 16 may define a slot 26 through which an ejector pin may pass to provide for selective ejection of an inserted lamp package.

The lamp package as described in our application No. 52324/65 (Serial No. 1,131,106) includes a base 30 and a depending connecting post 31 of cylindrical shape which is placed over the stabilizing stud 16 when inserted into the access opening 14. The post 31 includes at its lower end four retaining lugs 32 extending radially outwardly and having upper and lower ramp surfaces.

As a lamp package is attached by inserting the post 31 into the central access opening 14, the lower ramped surface of each lug 32 engages the cam surface 19 of a respective finger projection 18 to move the finger 17 laterally outwardly against its bias. As the package is fully seated, the fingers 17 spring back until the latch surfaces 20 engage the upper ramped surfaces of the lugs 32 to retain the package as shown in Fig. 2. Removal of the package from the socket by pushing with an ejector pin at the lower edge of post 31, or by pulling the package out, causes the upper ramped surfaces of lugs 32 to again move the fingers 17 outwardly until they are clear of the lugs 32.

An important aspect of the present invention is that the socket and package retaining means is in one piece, which may be formed by moulding. A suitable material from which to mould the socket 10 is a polycarbonate plastic, although any material having sufficient elastic resiliency to form the fingers 17 may be used.

WHAT WE CLAIM IS:—

1. A one-piece, photoflash socket to detachably retain a multilamp package having a

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In accordance with the present invention there is provided a one-piece, photoflash socket to detachably retain a multilamp package having a connecting base with retaining lugs, wherein the socket has a hollow body portion and integral retaining fingers engageable with the retaining lugs of a package.

In the accompanying drawing:—

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WHAT WE CLAIM IS:—

1. A one-piece, photoflash socket to detachably retain a multilamp package having a

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connecting base with retaining lugs, wherein the socket has a hollow body portion and integral retaining fingers engageable with the retaining lugs of a package.

- 5 2. A one-piece photoflash socket according to claim 1, wherein the socket further comprises an integral top wall defining a central access opening, an integral base portion, the retaining fingers extending upwardly from the base portion and an integral stabilizing stud extending upwardly from the base portion.

- 10 3. A one-piece, photoflash socket according

to claim 1 or 2, wherein the fingers include projections for engaging the lugs, the fingers being resilient to urge the projections into engagement with the lugs and the fingers being movable to permit attachment and detachment of a package. 15

4. A one-piece, photoflash socket constructed substantially as hereinbefore described with reference to, and as shown in, the accompanying drawing. 20

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