

PATENT SPECIFICATION

(11)

1 374 249

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- (21) Application No. 20221/74 (22) Filed 24 Aug. 1971
(62) Divided out of No. 1 374 245
(31) Convention Application Nos.

756 553
763 925
765 578
104 488

- (32) Filed 23 Sept. 1970
8 March 1971
9 April 1971
11 June 1971 in



- (33) Belgium (BE)
(44) Complete Specification published 20 Nov. 1974
(51) International Classification G03B 15/05
(52) Index at acceptance
G2X 1K1 1K4

(54) ELECTRONIC PHOTOFLASH

(71) We, PONDER & BEST, INC., a corporation organized under the laws of the State of California, United States of America, of 1630 Stewart Avenue, Santa Monica, State of California, United States of America, (formerly of 11201 West Pico Boulevard, Los Angeles, California 90064), 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 electronic photoflash devices.

According to the invention there is provided an electronic photoflash device including a photoflash tube in a housing, an energy storage capacitor connected for supplying operating current to the tube, and an induction coil connected between the tube and the capacitor, said coil being wound upon at least one surface of said housing.

Advantages of the invention, and particularly convenient arrangements, will become apparent from the following description, given by way of example and with reference to the accompanying drawings in which:—

Figure 1 is a perspective view of an embodiment of an induction coil arrangement;

Figure 2 is a perspective view of another induction coil arrangement.

Figure 1 illustrates an arrangement wherein the inductance coil 7 is wound around a reflector 601 of the photoflash unit. This arrangement offers the advantage of reducing the current density through the flash tube, and reducing the volume required for housing the flash unit circuitry while utilizing the otherwise wasted space
[Price 25p]

around the reflector. The wire 604 connected to the positive plate of capacitor 5 is wound around reflector 601 to form coil 7 and the other end of the wire is then connected to the positive electrode 603 of tube 3.

In order to further reduce space requirements, or for other fabrication reasons, the induction coil 7 can be wound on one or more other surfaces of the photoflash unit housing e.g. on the photoflash unit cover. One such arrangement is illustrated in Figure 2 wherein the wire 604 forming the coil is wound on the inner surface of a casing component 704 of the photoflash unit. One end of wire 604 is connected to the positive terminal 702 of capacitor 5, while the other end of wire 604 is connected to the positive terminal 703 of the photoflash tube.

Details of circuits in which such coils are used are described in our copending application No. 39704/71 Serial No. 1 374 245.

WHAT WE CLAIM IS:—

1. An electronic photoflash device including a photoflash tube in a housing, an energy storage capacitor connected for supplying operating current to the tube, and an induction coil connected between the tube and the capacitor, said coil being wound upon at least one surface of said housing.
2. A photoflash device as claimed in claim 1 wherein said coil is wound around the outer surface of said housing.
3. A photoflash device as claimed in claim 1 wherein said coil is wound upon a flat inner surface of said housing.
4. A photoflash device as claimed in

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3. A photoflash device as claimed in claim 1 wherein said coil is wound upon a flat inner surface of said housing.
4. A photoflash device as claimed in

Price 33p



claim 1 wherein said housing comprises a reflector and said coil is wound around the reflector.

5. A photoflash device as claimed in claim 1, the arrangement being substantially as described herein with reference to Fig. 1 or 2 of the accompanying drawings.

Agents for the Applicant

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