

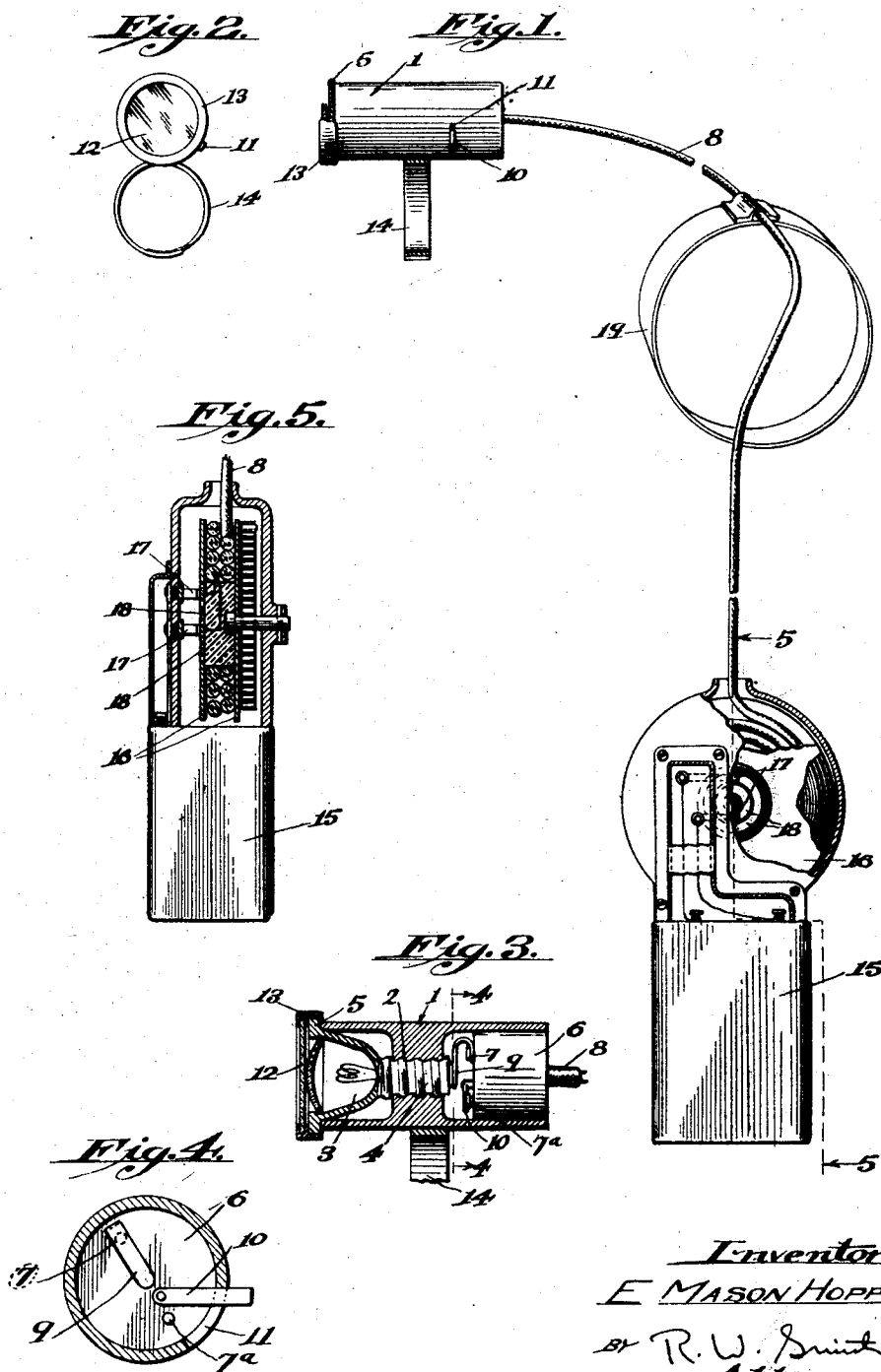
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E. M. HOPPER

FINGER LAMP

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UNITED STATES PATENT OFFICE.

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FINGER LAMP.

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To all whom it may concern:

Be it known that I, E MASON HOPPER, a citizen of the United States, residing at Los Angeles, county of Los Angeles, State of California, have invented new and useful Improvements in Finger Lamps, of which the following is a specification.

It is the object of this invention to provide a small, portable, lamp adapted to be worn upon the finger for conveniently supporting the lamp relative to the hand while leaving the fingers free for writing or the like.

The device is of general utility, but is particularly adapted for use in photographic dark rooms or in projecting rooms for motion pictures, and when employed in this connection a ruby glass is adapted to be mounted in front of the light bulb to cause ruby illumination.

The invention will be readily understood from the following description of the accompanying drawings, in which:

Fig. 1 is a perspective view of the device.

Fig. 2 is a front elevation of the lamp structure.

Fig. 3 is an enlarged axial section through the lamp structure.

Fig. 4 is a transverse section on the line 4—4 of Fig. 3.

Fig. 5 is a vertical section on the line 5—5 of Fig. 1.

The lamp structure preferably consists of a casing shown as cylinder 1, internally threaded as shown at 2. A usual electric light bulb 3 is mounted in the end of cylinder 1, with its threaded plug 4 engaging the threads 2. The light bulb has an annular knurled flange 5 adapted to be received against the end of the cylinder when the bulb is mounted in the lamp casing.

An insulator plug 6 is received in the opposite end of cylinder 1, and is spaced from the plug of the light bulb. Terminal screws 7—7^a are mounted in the end of plug 6 and have the wires of an electric cord 8 connected thereto, said cord extending through the insulator plug and beyond the rear end of the same. A spring contact strip 9 is supported by screw 7, and is adapted to make contact with the base of plug 4 when the light bulb is screwed into the lamp casing.

A switch arm 10 is pivoted upon plug 6, and extends through a slot 11 in casing 1.

This arm is so positioned that when moved in one direction it will make sliding contact with the head of screw 7^a and complete the electrical circuit through casing 1 and the light bulb, and when shifted in the opposite direction will swing clear of screw 7^a so as to break the light circuit.

A glass plate 12, preferably ruby colored, may be removably mounted upon the lamp casing in front of the light bulb, so as to adapt the device for use in a projecting room or the like. This glass may be mounted in a supporting ring 13 which is adapted to be slipped over the knurled flange 5, and thereby detachably mount the glass in position.

The lamp is supported upon the finger, extending lengthwise thereof so as to project rays of light beyond the finger. For this purpose an adjustable finger encircling ring extends transversely from casing 1. The ring preferably comprises a spring strip 14 curved to form the ring and fastened to cylinder 1 midway of the length of the strip. The ends of the strip overlap for circumferential sliding adjustment of said ends relative to one another. The ring may be thus expanded or contracted to fit any finger.

The electric cord extending from the lamp is connected to a suitable source of electrical energy, preferably a portable battery shown as a pocket dry cell 15. The cord is shown as adjustable in length, as by mounting a spring actuated drum 16 upon the battery casing and winding the cord upon the drum. The necessary electrical connections between the cord and the terminals of the battery may be made by spring fingers 17 making electrical contact with rings 18 on the drum, said rings being connected to the wires forming the cord 8.

In order to hold cord 8 in position extending along the arm when the lamp is supported in position upon the finger, a resilient loop member, in the present instance shown as an elastic loop 19, is secured to the cord and is adapted to be worn around the wrist.

It will thus be seen that I have provided a portable lamp which may be conveniently mounted on the finger so as to illuminate writing or other work while leaving the fingers free.

It will be apparent that various changes

may be made in the construction as thus described, without departing from the spirit of the invention.

What is claimed is:

- 5 A portable lamp comprising an elongated casing forming two compartments separated by a wall having a threaded bore, a light bulb in the front compartment with its base threaded into the bore, an insulated plug in
10 the rear compartment making electrical contact with the base of the bulb, a ring extending laterally from the casing and adapted to be worn upon the finger to position the cas-

ing along the finger with the light bulb projecting rays of light longitudinally beyond the finger, and a switch for the circuit through the bulb having a handle projecting laterally through the side of the casing in rear of the ring to a position for operation by another finger of the hand when the casing extends along the first mentioned finger. 15 20

In testimony whereof I have signed my name to this specification.

E MASON HOPPER.