Sept. 10, 1929. A. W. FRANKLIN 1,728,049

COMBINED ELECTRIC LIGHTING FIXTURE AND CIGARETTE LIGHTER

Filed June 9, 1928

Fig. 1.

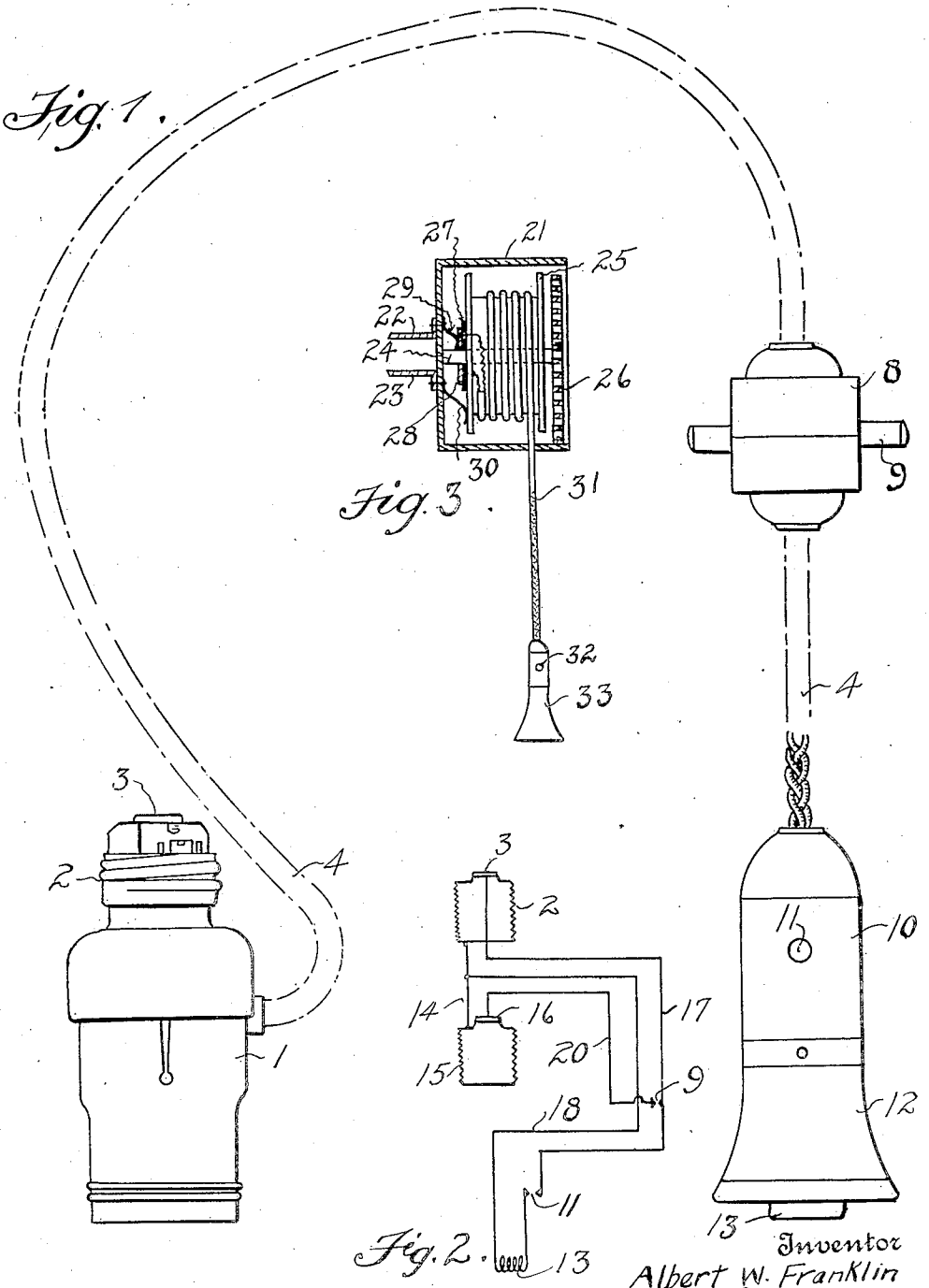


Fig. 3.

Fig. 2.

Inventor
Albert W. Franklin
By his Attorneys Darby & Darby.

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ALBERT W. FRANKLIN, OF NEW YORK, N. Y.

COMBINED ELECTRIC LIGHTING FIXTURE AND CIGARETTE LIGHTER.

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This invention relates in general to electric fixtures comprising the combination of an electric lighting fixture with a cigarette lighter.

One of the objects of this invention is the provision of an arrangement of the above type which is relatively simple in construction and adapted for many uses.

A further object of this invention is the provision of a combination comprising an electric lighting fixture, a cigarette lighter, and switches for controlling either independently of the other.

These and other objects, as will appear from the following disclosure, are sought by means of this invention.

This invention resides substantially in the combination, construction, arrangement, relative location, and circuital connections, all as will more fully appear below.

Referring to the drawings in which the same reference numerals will be used wherever possible to indicate the same or similar parts—

Figure 1 is an elevational view of the device of this invention;

Fig. 2 is a diagrammatic illustration of the circuit connections of the device of this invention; and

Fig. 3 is a modified form of the device showing some parts in cross section.

One of the principles of this invention is to provide a cigar or cigarette lighter energized by electricity of such form and construction as to adapt it for use with any type of electrical lighting fixtures for the purpose of giving a simple and efficient arrangement by means of which the lighter may be controlled independently of the light source. In accomplishing these objects it is a further purpose of this invention to provide a device which is so constructed and proportioned as to have an appearance of beauty so as to enhance the appearance of the fixtures with which it is used.

One other important and valuable use of this device, for instance, is to employ it in conjunction with a floor or bridge lamp so it may depend from a point near the top thereof in the form of a tassel or pendent. Besides improving the appearance of the floor lamp, it provides a cigar or cigarette lighter which, swinging free from the point of attachment, may readily be reached by those sitting near the lamp and raised for the operation of lighting a cigar or cigarette. The broad purpose of this invention is to provide this cigarette lighter in connection with any lighting fixture in such a manner as to provide a convenient cigarette lighter and at the same time convenient means for controlling the light at the lighting fixtures. To secure these results a three-wire circuit is employed in conjunction with two switches operating independently to control either the lighting fixture or the cigarette or cigar lighter.

Referring to the drawings for a better understanding of the invention, there is shown at 1 an electrical lighting fixture. It may be pointed out here that it is intended that this shall represent any form of electrical lighting fixture and has only been given as one embodiment thereof. As shown, the fixture comprises a combined electric light socket and plug so that the fixture may be screwed into an ordinary outlet without destroying the outlet's function of receiving an electric lamp and at the same time permitting the insertion of a cigarette lighter.

The fixture 1 is provided with two contact pieces 2 and 3 which complete the circuit with similar elements of an outlet socket. It is, of course, apparent that the ordinary push prong type of connection can be used in place of the screw type shown. A cable indicated at 4 extends from the fixture 1 to a switch 8 provided with the buttons 9 for controlling the circuit to the fixture 1. This switch 8 is well known in the art and forms no part, when taken alone, of the invention. The cigarette lighter is shown at 10 comprising a body portion which houses a switch controlled by the button 11 similar to the switch arrangement 8. As shown adjacent the member 10, the cable comprises three wires for a purpose to be disclosed later. The body member 10 is provided with a flaring bell-shaped member 12 which houses a resist-

ance heating coil 13 to provide a well known form of cigarette lighter.

Referring to Fig. 2, the circuit connections are shown; the plug portion of the fixture 1 is shown comprising the contact 3 insulated from the threaded contact 2. The threaded contact 2 is connected by a wire 14 to the threaded contact 15 forming the interior of the fixture 1. This fixture is also provided with an interior contact 16 insulated from the shell 15 and connected by wire 20 to one terminal of the switch 9. The contact 30, connected by wire 17, is also connected to the other contact of switch 9. Wire 14 is connected by wire 18 to one terminal of the resistance heating coil 13 which has its other terminal attached to the remaining terminal switch 11.

As will be apparent from this disclosure, when switch 9 is closed the circuit is completed to the device, for instance, an electric lamp screwed into the shell 15, so that it is energized. When switch 11 is closed the heating coil 13 is connected to the current source and is heated to a red heat. It will be apparent either device may be controlled independently of the other.

A modified form of this invention is shown in Fig. 3 and comprises an insulating casing 21 on which are mounted the separated prongs 22 and 23 which are intended to be received by the ordinary push prong type of socket or outlet. An insulating shaft 24 is mounted independently of the casing 21 and serves to rotatably support the metal spool 25. A spiral spring 26 is shown mounted within the casing and attached at its inner end to the spool 25. The other end of the spiral is secured to the casing 21. Attached to the spool 25 and encircling the shaft 24 is an insulated disk 27 which supports the metallic commutator disk 28. Mounted in the casing 21 and electrically connected to the prong 22 is a spring finger 29 which contacts with the disk 28. A similar spring finger 30 is mounted on the casing 21, electrically connected to the prong 23, and bearing on the metallic spool 21. The spool serves to hold an electric cable 31 to which is attached the switch 32 and the cigarette lighter indicated generally at 33. The two wires of the cable 31 are connected to the disk 28 and the spool 25, respectively, to complete a circuit between the lighter and the prongs 22 and 23. It is intended that this type of device may be attached to any suitable form of outlet.

When it is desired to use a device the user grasps the lighter and pulls it from the casing against the action of spring 26. When he releases the lighter or permits it to return the spring 26 which has been compressed winds it up on the spool 25.

It will be apparent from the foregoing that I have provided a simple and unitary device for carrying out the principles of this invention which it is clear will tend to be a beautifying auxiliary to any home and at the same time be highly useful.

I am well aware that many changes in the details of construction and relative arrangement of parts will readily occur to those skilled in the art and I do not, therefore, desire to be particularly limited to the form of the device given for purposes of illustration but rather to the scope of the invention as it is pointed out below.

What I seek to secure by United States Letters Patent is:

1. An article of manufacture comprising a plug and socket electric light fixture, a three wire cable connected to said fixture, a cigarette lighter connected to the cable and a switch for controlling the socket connected to said cable between said lighter and said fixture.

2. An article of manufacture comprising a plug and socket electric light fixture, a three wire cable connected to said fixture between the plug and socket, a cigarette lighter connected to said cable and a switch connected to said cable for controlling the socket of said fixture.

In testimony whereof I have hereunto set my hand on this sixth day of June, A. D. 1928.

ALBERT W. FRANKLIN.