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A. W. WHITE

2,405,384

ILLUMINATING ANKLE BRACELET AND THE LIKE

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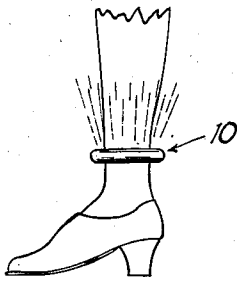


Fig. 1

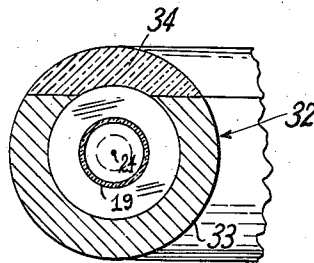


Fig. 4

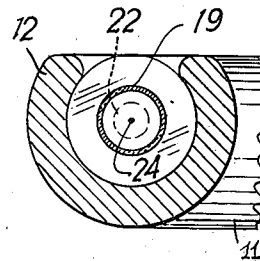


Fig. 3

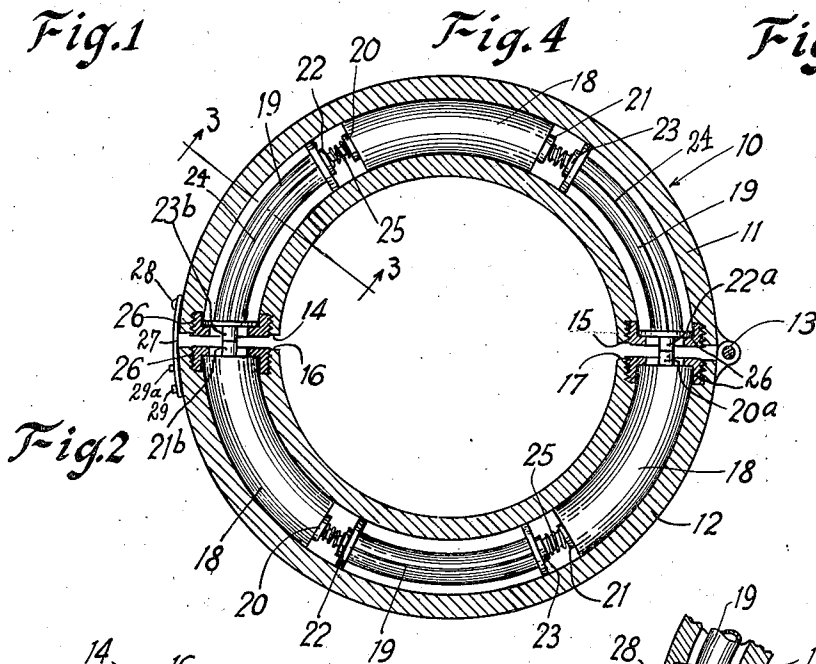


Fig. 2

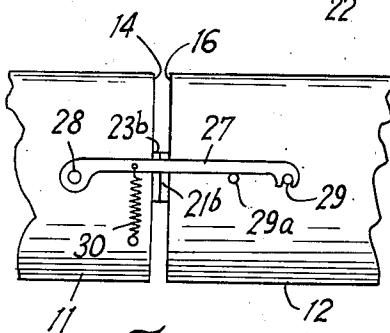


Fig. 5

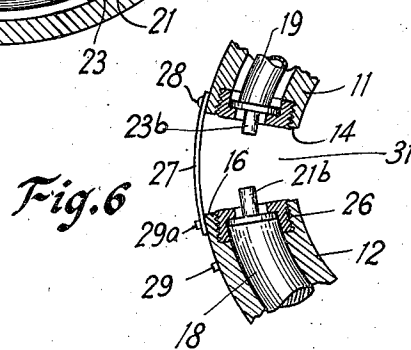


Fig. 6

INVENTOR:
ALBERT W. WHITE,
BY: *Julian J. Wittal*
his attorney.

UNITED STATES PATENT OFFICE

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ILLUMINATING ANKLE BRACELET AND
THE LIKE

Albert W. White, New York, N. Y.

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2 Claims. (Cl. 240—6.4)

1

This invention relates to illuminating rings placed on portions of the body of a person or a dummy, for novel lighting and decorating effects.

My invention particularly relates to bracelets to be placed on the ankles of a person or a dummy, said bracelets having means to throw illumination upwardly over the body of a dancer, stage performer, or a dummy in a show window exhibiting dresses or the like, whereby novel, aesthetic effects will be produced and whereby the attention of the people will be drawn to the performers or the dummy exhibiting the dress or other article.

Other objects of this invention will be apparent as the specification of the same proceeds, and, among others, I may mention: to provide a device which will be simple and comparatively inexpensive in construction, easy and safe to operate, to apply or to remove.

In the drawing forming a part of this specification and accompanying the same:

Fig. 1 shows my device as applied on the ankle of a person or a dummy;

Fig. 2 is a plan view of my device, on a larger scale;

Fig. 3 is a sectional view, the section being taken on the line 3—3 of Fig. 2;

Fig. 4 is another sectional view showing a modification of my device;

Fig. 5 is a fragmentary side view of the closing or locking means for my device, and

Fig. 6 is a fragmentary plan view showing my device in an open position, parts of the same being omitted.

Referring now to the drawing more in detail by characters of reference, the numeral 10 indicates my illuminating ankle bracelet, in general, being composed of two semi-circular halves 11 and 12, joined together by a pivot, as at 13. Each half is a channel shaped member as indicated in Fig. 3. The ends of the respective semi-circular channel members of my device are indicated at 14, 15, 16 and 17, respectively. The material of the channels 11 and 12 preferably is of electrically insulating character, like an appropriate plastic, hard rubber, etc., but, as will be explained hereinafter, it may be a precious or other metal, in which case the same or certain parts thereof must be electrically insulated from some of the inner mechanisms, the necessity and means of which will be obvious to those versed in this art.

Electric dry batteries 18 are placed into the channel at appropriate places, and electric il-

2

luminating tubes 19 are placed between the batteries, both, the batteries and the tubes preferably following the circular outline of my device.

At one end of each battery 18, there is provided an appropriate positive pole plate 20, and at the other end thereof a negative pole plate 21, as will be understood, each pole plate, of course, being insulated from the housing of the battery.

Similarly, at one end of each illuminating tube 19 there is provided a metal conductor plate 22 forming one pole thereof, at the other end another similar conductor plate 23 forming the other pole of the same, and an illuminating filament 24 connects the two poles of the tube.

Spiral springs 25 are placed between the respective pole plates of the batteries and of the illuminating tubes, whereby the whole chain of batteries and tubes are pressed into reliable electrical contact to one another.

At the four ends 14 to 17 inwardly projecting flanges 26 are provided in the channels (Fig. 6) whereby the final elements in the chain, be they dry batteries or tubes, will be prevented from escaping or being pushed out at the end of the respective channel.

When it is desired to apply my device, the same will be opened on its pivot 13, and then closed on the ankle of the person or dummy, whereupon it may be secured in such a closed position by a hook 27, which may be pivoted at one side of the opening of the device, as at 28, and may engage a pin 29 at the other side.

A spring 30 may insure that the hook 27 will be kept engaged with the pin 29.

It will be seen that when my device is in such closed position, the chain of the electrical elements is closed into one continuous circuit through the corresponding projecting specific poles 20a and 22a, and 21b and 23b, in the end elements of the two halves which will be pressed upon one another by the springs 25 in the chain.

In such a condition the light of the tubes 19 will be thrown upwardly and will illuminate the leg of the person wearing the ankle bracelet or of the dummy on which it is employed.

When it is desired to extinguish the illumination, the hook 27 may be placed on another pin 29a being inwardly placed from the pin 29, whereby the device will be slightly open and a space 31 formed between its free ends, and the two pairs of poles 20a and 22a and 21b and 23b will be spaced apart from one another thereby breaking the electric circuit (Fig. 6).

In Fig. 4, I indicate a modification of my device, in which, instead of the channels 11 and 12,

3

a full tube 32 is provided for each half of my device, the lower part 33 thereof being of opaque material, while the upper part 34 is of a transparent nature to permit illumination therethrough.

While I have shown preferred embodiments of my invention, it is to be understood that changes and variations may be resorted to in the elements, construction or use of my invention, and I reserve my rights to such changes, variations and uses, as are within the spirit of this specification and the scope of the claims hereunto appended.

One such change may consist in making the transparent upper half 34 of the modification, indicated in Fig. 4, of colored material so as to produce a light of a desired color. This upper transparent half of my ankle bracelet may also be magnified or in such a manner as to effect the reflecting of the light in a desired manner.

It is also understood that any other suitable electric switch may be used in connection with my device than the one described in this specification for making or breaking the electric circuit. Such devices are well known in this art and may be applied to an illuminating ankle bracelet of my invention in an obvious manner by those versed in this art.

Similarly, additional openings may be made in the channels 11 and 12 downwardly to illuminate the feet of the user, if desired.

What I claim as new and want to protect by Letters Patent of the United States is:

1. An illuminating device, adapted to be placed on and around portions of the body of a person or a dummy, comprising a ring shaped member of opaque material, self contained and self operating illuminating means enclosed in said member, a portion of said member being made transparent and permitting the escape of light rays generally in parallelism with the axis of said

4

ring shaped member, so as to longitudinally illuminate the portion of the person or the dummy which is encircled by said ring member, said ring comprising two halves pivoted to one another, and means to releasably close the ring on a portion of the body of a person or a dummy, said illuminating means comprising electrical batteries and tubular light elements, having insulated electro conductive pole members at their ends, and being arranged in a predetermined successive chain, resilient electro conductive means between each adjacent pair of elements in said chain, and limiting means to prevent the escape of the elements at the ends of the half rings.

2. An illuminating device, adapted to be placed on and around portions of the body of a person or a dummy, comprising a ring shaped member of opaque material, self contained and self operating illuminating means enclosed in said member, a portion of said member being made transparent and permitting the escape of light rays generally in parallelism with the axis of said ring shaped member, so as to longitudinally illuminate the portion of the person or the dummy which is encircled by said ring member, said ring comprising two halves pivoted to one another, and means to releasably close the ring on a portion of the body of a person or a dummy, said illuminating means comprising electrical batteries and tubular light elements, having insulated electro conductive pole members at their ends, and being arranged in a predetermined successive chain, resilient electro conductive means between each adjacent pair of elements in said chain, and limiting means to prevent the escape of the elements at the ends of the half rings, pole projections on said last elements contacting one another when the ring halves are closed, but adapted to be separated and the electric circuit broken when the ring halves are opened.

ALBERT W. WHITE.