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ELECTRIC LIGHT FIXTURE

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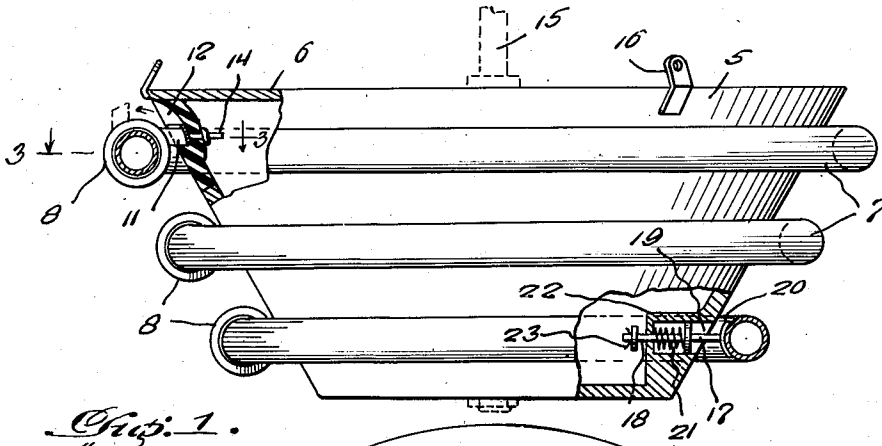


Fig. 1.

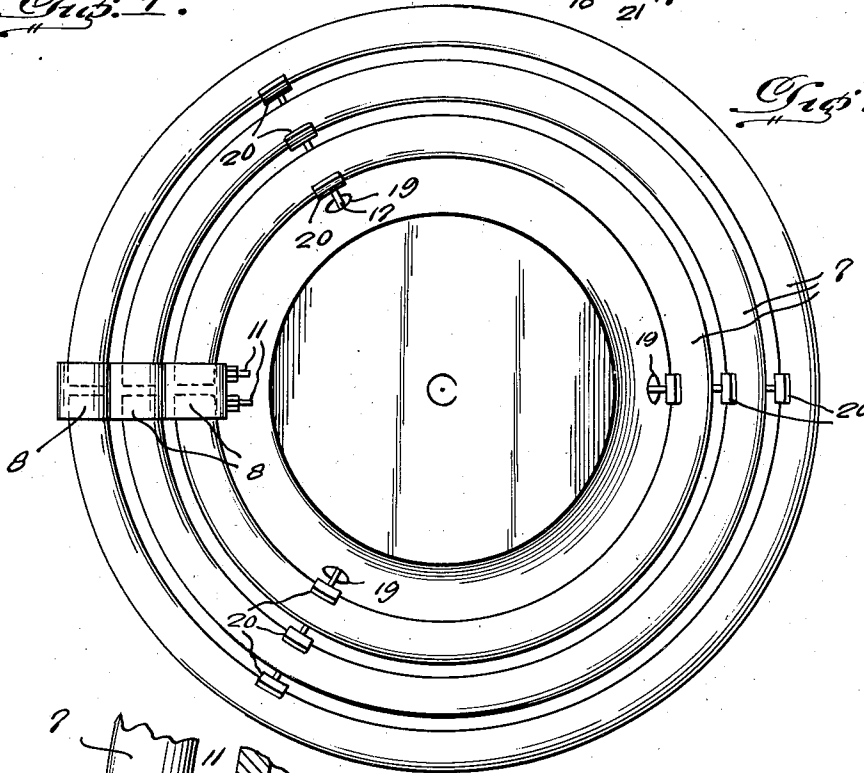


Fig. 2.

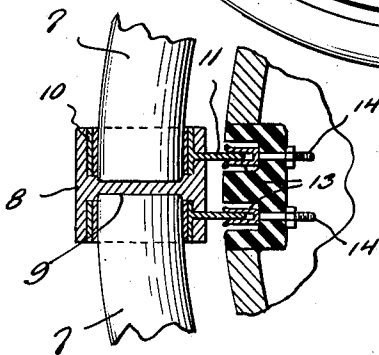


Fig. 3.

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ELECTRIC LIGHT FIXTURE

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2 Claims. (Cl. 240-51.12)

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The present invention relates to new and useful improvements in electric light fixtures especially adapted for use with fluorescent lamps and more particularly to a ceiling fixture of this character.

An important object of the invention is to provide a hanging ceiling lamp including a circular fluorescent tube supported thereon together with novel conductor means between the tube and the lamp.

A further object of the invention is to provide a connector for the ends of the circular fluorescent tube embodying a sleeve in which the ends of the tube are received, the sleeve constituting an electric plug having prongs projecting radially therefrom and adapted for engagement in a socket at one side of the lamp and arranged for contacting engagement by a rotary movement of the sleeve on the ends of the tube.

A still further object of the invention is to provide a yieldable supporting bracket for the tube whereby pressure is exerted on the tube in a manner to maintain the plug in electrical contact with the socket.

A further object is to provide an electric light fixture of this character of simple and practical construction, which is neat and attractive in appearance, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawing wherein—

Figure 1 is a side elevational view with parts broken away and shown in section.

Figure 2 is a bottom plan view, and

Figure 3 is a fragmentary sectional view taken on a line 3-3 of Figure 1.

Referring now to the drawing in detail wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates a frusto-conical bowl of hollow construction and of any suitable material, such as glass, plastic, metal or the like, the bowl being closed at its top as shown at 6.

Surrounding the bowl in spaced relation therefrom are one or more circular fluorescent tubes 7, the ends of the tube being connected to each other by a sleeve 8 having a central partition 9 separating the ends of the tube from each other. The sleeve 8 is of insulation material and positioned in each end of the sleeve is a liner 10 of conductive material from each of which a plug 11 projects radially outwardly through one side of the sleeve to form an electric plug to provide an

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electrical connection for the tube in the usual manner.

The sleeve 8 is rotatably mounted on the end of the tube 7 for freeing the prongs of the plug 11 into and out of a recess 12 in one side of the bowl 5 or in a body of electrically insulative material secured in the bowl and which recesses form sockets in which spaced apart spring contact fingers 13 are positioned for receiving the prongs. The contact fingers 13 of the socket are provided with terminals 14 projecting within the bowl 5 for connection with an electric circuit extending from the bowl through a pipe 15 rising from the top 6 thereof.

The upper edges of the bowl may also be provided with apertured lugs 16 to which chains (not shown) may be attached for suspending the fixture from the ceiling of a room.

The prongs 11 of the electric plug are urged into engagement with the contact 13 of the socket by means of one or more spring projected brackets 17 including a rod 18 slidably mounted in a recess 19 in the side of the bowl 5, the rod having an arcuate head 20 on its outer end bearing against the inner edge of the tube 7. The rod 18 is projected outwardly by means of a coil spring 21 mounted thereon and engaging a washer 22 secured to the rod. The rod is limited in its outward movement when the tube 7 is removed by means of a pin or cotter key 23 carried transversely at the inner end of the rod.

In assembling the fixture the tube 7 is placed around the bowl 5 with one edge of the tube seated against the arcuate head 20 of the bracket 17 and the prongs 11 of the electric plug swung into position for engaging the contact 13 by rotating the sleeve 8 on the ends of the tube from the dotted line position to the full line position as shown in Figure 1. A spring projected bracket 17 maintains the tube in spaced relation from the bowl 5 and with the prongs 11 of the plug in contacting engagement with the socket of the bowl.

While I have illustrated the bowl of frusto-conical shape it will be understood that the same may be of any desired shape or configuration and any desired number of the tubes 7 may be mounted in position thereon.

It is believed that the details of construction, manner of use and advantages of the device will be readily understood from the foregoing without further detailed explanation.

It is to be understood, however, that even though I have herein shown and described a preferred embodiment of my invention the same is susceptible of certain changes fully comprehended

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by the spirit of the invention as herein described, and the scope of the appended claims.

What I claim is:

1. An illuminating device comprising a frusto-conical bowl having recesses in opposite sides thereof, a pair of spaced-apart spring contacts in a recess at one side of said bowl, a spring-projected bracket mounted in a recess in said bowl at the opposite side of the latter from said contacts and having an arcuate head, a circular fluorescent tube surrounding said bowl in spaced relation thereto, a sleeve receiving the adjacent end portions of said tube, a pair of prongs projecting from said sleeve and respectively received by said contacts, and a spring in the bracket receiving recess of said bowl urging said bracket head into engagement with said tube opposite said sleeve and together with said prongs and said contacts, holding said tube on said bowl in spaced relation thereto.

2. An illuminating device comprising a frusto-conical bowl having recesses in opposite sides thereof, a pair of spaced-apart spring contacts in a recess at one side of said bowl, a spring-projected bracket in a recess at the opposite side of said bowl comprising a rod slidably mounted in said recess, an arcuate head on said rod, a washer

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on said rod, and a coil spring surrounding said rod between said washer and the bottom of said recess to resiliently urge said rod outwardly of said recess, a circular fluorescent tube surrounding said bowl in spaced relation thereto, a sleeve rotatively mounted on the adjacent end portions of said tube, and a pair of prongs projecting from said sleeve and respectively received by said spring contacts, said arcuate head of said bracket engaging said tube at a location opposite said sleeve and together with said prongs and said contacts, holding said tube on said bowl in spaced relation thereto.

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