

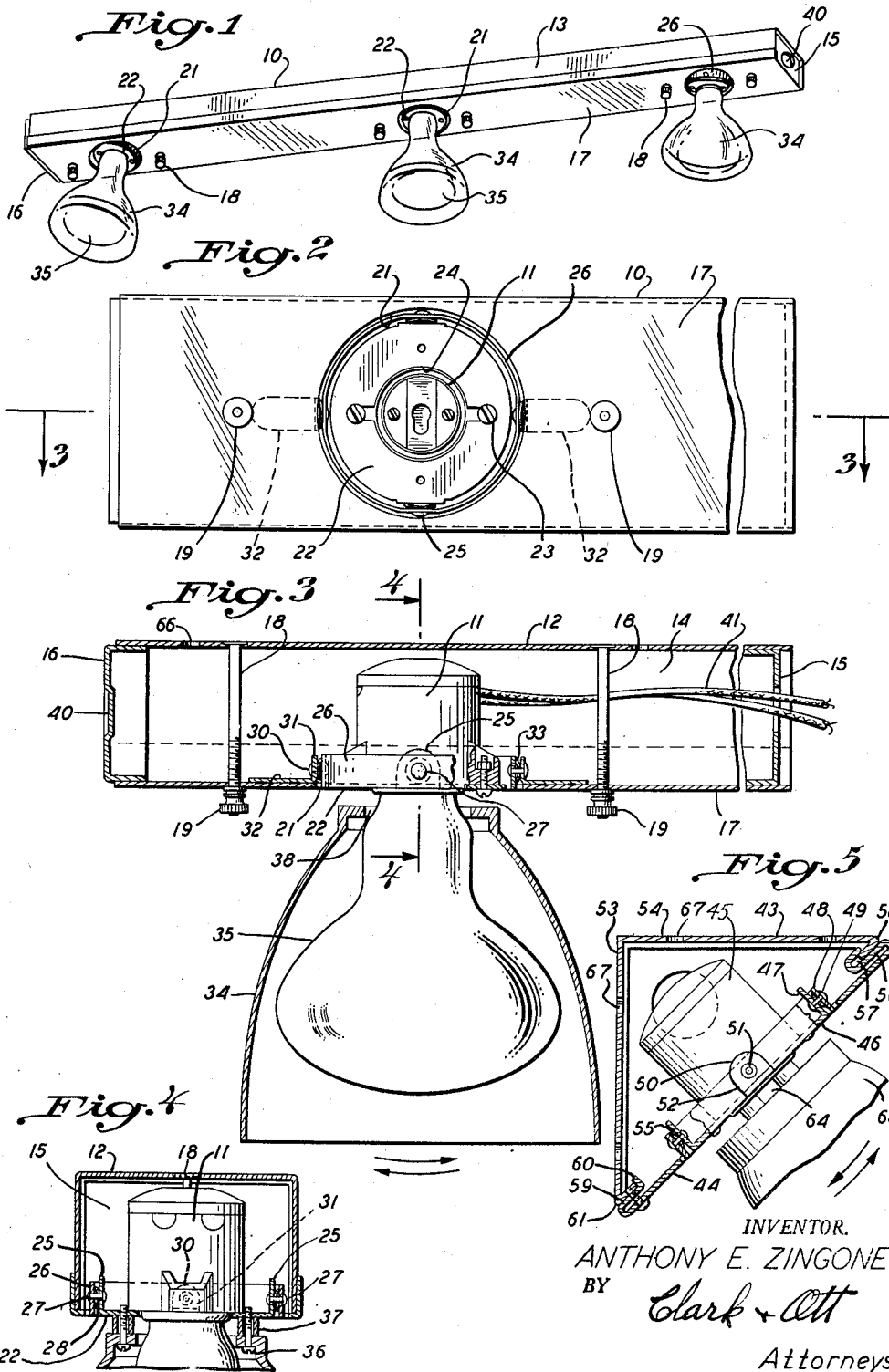
April 30, 1957

A. E. ZINGONE

2,790,894

LIGHTING FIXTURE WITH SWIVELY MOUNTED LIGHT SOCKET

Filed July 28, 1954



INVENTOR.
ANTHONY E. ZINGONE.
BY *Clark & Ott*
Attorneys

1

2,790,894

LIGHTING FIXTURE WITH SWIVELLY MOUNTED LIGHT SOCKET

Anthony E. Zingone, New York, N. Y., assignor to Neo-Ray Products, Inc., New York, N. Y., a corporation of New York

Application July 28, 1954, Serial No. 446,319

1 Claim. (Cl. 240—73)

This invention relates to a lighting fixture in which the light socket is adjustable for casting a spot light in various angular directions.

The invention has particular reference to a lighting fixture in which the light socket is swivelly mounted for movement through an angle of 90 degrees in all directions throughout a complete circular plane. The arrangement is such that the light socket can be adjusted and set in various adjusted positions to cast a spot light upon any part of a forward circular plane.

While lighting fixtures have been adjustable to cast a light in different angular directions, the same have not been capable of universal swinging for spot lighting any portion of a forward plane. In order to overcome the limited adjustability in prior constructions, the present invention comprehends the pivotal mounting of the light socket for turning movement on axes located in right angular relation and for the movement of the hood or reflector with the light socket.

Another object of the invention is to provide a mounting for one or more spot lights which are independently adjustable and arranged with two or more of the mountings adapted to be disposed in end to end interfitted relation.

Still another object of the invention is to provide a lighting fixture of said character in which the spot lights are readily adjustable to any desired position by fingertip movement thereof.

Still another object of the invention is to provide a hood or reflector which is connected with the socket to permit of circulation of air through the base of the hood or reflector.

A further object of the invention is to swivelly mount the light socket on the cover of the lighting fixture which is removably connected with the fixture.

With the foregoing and other objects in view, reference is now being made to the following specification and accompanying drawings in which the preferred embodiment of the invention is illustrated.

In the drawings:

Fig. 1 is a perspective view illustrating a lighting fixture having three swivelly mounted light sockets constructed in accordance with the invention.

Fig. 2 is an enlarged fragmentary plan view showing one of the light sockets with the hood and light bulb removed.

Fig. 3 is an enlarged fragmentary vertical sectional view taken approximately on line 3—3 of Fig. 2.

Fig. 4 is a cross-sectional view taken approximately on line 4—4 of Fig. 3 with the hood and light bulb partly broken away.

Fig. 5 is a cross sectional view of a lighting fixture constructed in accordance with the invention and illustrating a modified form of base.

Referring to the form of the invention illustrated in Figs. 1 to 4 inclusive of the drawings, the lighting fixture includes a base 10 in the form of an elongated box in

2

which is mounted one or more electric light sockets 11, three being shown in the embodiment illustrated in Fig. 1 of the drawings. The box 10 is of rectangular formation and includes a rear wall 12, opposite side walls 13 and 14, opposite end walls 15 and 16, and a flanged cover 17 which is secured in closed relation with the box by screws 18 affixed to the rear wall 12 and protruding through openings in the cover and engaged by nuts 19. The end wall 15 is recessed inwardly from the end of the box, while the end wall 16 projects outwardly of the ends of the bottom wall and opposite side walls and the cover whereby a plurality of the lighting fixtures may be disposed in longitudinal alignment with the projecting end wall 16 of one of the fixtures interfitted in the recessed end 15 of the adjacent fixture.

The cover 17 is provided with a circular opening 21 for each light socket 11. Arranged concentrically within each opening 21 is a circular plate 22 to which the light socket 11 is removably secured by screws 23 with the central portion of the socket protruding through the central opening 24 in said plate. The plate 22 is provided with rearwardly projecting ears 25 which are located on a diametric axis and are pivoted to a ring member 26 on pins 27. The forward edge of the ring 26 and the forward face of the plate 22 are located substantially flush with the forward face of the cover 17 when the socket 11 is in right angular relation with the cover. The pins 27 extend through spring washers 28 located between the ears 25 and the ring 26 and which prevent too free turning of the socket on the axis defined by the pins 27.

The ring 26 is pivoted on pins 30 to the inwardly directed ears 31 of angle members 32 affixed to the inside face of the cover 17. The ears 31 are located on a diametric axis and at right angles to the ears 25. The pins 30 protrude through spring washers 33 located between the ring 26 and the ears 31 to prevent too free movement of the ring on a horizontal axis extending through the pins 30. The socket 11 together with the plate 22 may be swung through an arc of approximately ninety degrees on the axis through the pins 27 and the ring 26 together with the plate 22 and the socket 11 may be swung through an angle of approximately ninety degrees on the axis extending through the pins 30 so as to dispose the light socket in any desired angular position.

A hood or reflector 34 is provided for each socket which extends outwardly beyond the forward end of an electric light bulb 35 in each socket with the outer end of the hood or reflector 34 being substantially of cylindrical formation for directing the light rays emanating from the light bulb in the form of a spot light. The hood or reflector 34 is secured to each of the plates 22 by spaced screws 36 which extend through spacer elements 37 so as to space the inner end of the hood or reflector from the plate 22 to permit of air circulating about the inner end of the hood, and for this purpose, the hood or reflector is formed with an opening 38 which is somewhat larger than the inner end of the light bulb 35 to permit of the passage of air through the hood or reflector for ventilating the same.

The end walls 15 and 16 are provided with knockout portions 40 through which protrude the light cords 41 of the socket for connecting the same with a source of current. When the lighting fixture is provided with a plurality of light sockets, the light cords 41 may be connected together within the box 10 to connect the same in series and when two or more of the lighting fixtures are disposed in end to end relation the light cords 41 may extend into the adjacent fixtures for connecting all the lights together.

In the form of the invention illustrated in Fig. 5 of the drawings, the lighting fixture includes a base 43 which is

3

in the form of an elongated box of triangular formation in cross-section. The box is closed by a cover 44 on which are swivelly mounted one or more electric light sockets 45 similar to the mounting of the sockets 11 in the previous form of the invention. In this form the light socket is secured to a forward plate 46 having inwardly directed ears 47 which are pivoted to a ring 48 on diametric pins 49, and in right angular relation therewith the ring 48 is pivoted to inwardly directed ears 50 on pins 51. The ears 50 form part of angle members 52 affixed to the inside face of the cover 44 and which are similar to the angle members 32 in the previous form of the invention.

The cover 44 extends longitudinally of the box 43 and is removably secured to the walls 53 and 54 of the box by screws. For this purpose the cover is provided with an intumed portion 56 extending longitudinally of the upper edge thereof which is curved outwardly at its free longitudinal edge to provide a longitudinally extending recess 57 in which is received the downwardly directed flange 58 of the wall 54. The cover 44 is similarly provided with an intumed lower edge portion 59 having a flange 60 adapted to engage over the flange 61 of the wall 53. The screws extend through the cover 44 and the intumed portion 59 thereof with the inner ends of the screws anchored in the flange 61 for removably securing the cover in position on the box.

A hood or reflector 63 similar to the hood or reflector 34 is secured to the plate 46 by spacer elements 64 to permit of ventilation of the hood or reflector, and two or more of the boxes 43 are adapted to be disposed in interfitted longitudinal alignment similar to the box 10 in the previous form of the invention.

The light sockets 45 are retained against too free swinging movement on the pins 49 and 51 by means of spring washers 55 located between the ring 47 and the ears 48 on the pivot pins 49 and between the ring 47 and the ears 50 on the pins 51. The sockets 45 are independently adjustable through an angle of approximately ninety degrees on the pins 49 and through an

4

angle of approximately ninety degrees on the pins 51 so as to set the sockets together with the lamp and hood or reflector in any desired angular relation.

The rear wall 12 of the box 10 is provided with openings 66 while the walls 53 and 54 of the box 43 are provided with openings 67 for receiving fastening means for mounting the lighting fixtures on a ceiling or wall or other supporting structure.

While the preferred embodiments of the invention have been shown and described herein, it is to be understood that the same is not so limited but shall cover and include any and all modifications thereof which fall within the purview of the invention.

What is claimed is:

15 In a lighting fixture, a hollow base having a forward opening, a cover for said base having an opening therein, a light socket, a member arranged at said opening in the cover and to which the light socket is secured, said member having an opening for inserting a light bulb in said socket, a ring member surrounding said first named member, said cover having inwardly directed oppositely disposed ears at said opening and said first named member having inwardly directed oppositely disposed ears located in right angular relation with the ears on the cover, said ring member being pivoted to said ears on diametric axes to permit of swinging of said socket on said axes, and spring means arranged between said ring and said ears respectively for preventing too free movement of said socket on said axes.

References Cited in the file of this patent

UNITED STATES PATENTS

1,430,354	Burdick	Sept. 26, 1922
2,232,543	Logan	Feb. 18, 1941
2,547,126	Kaish et al.	Apr. 3, 1951
2,554,258	Lundquist	May 22, 1951

FOREIGN PATENTS

462,762	Canada	Jan. 31, 1950
---------	--------	---------------