Jan. 19, 1960 M. BOBRICK 2,922,030

ADJUSTABLE SPOT LIGHT

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FIG. 1

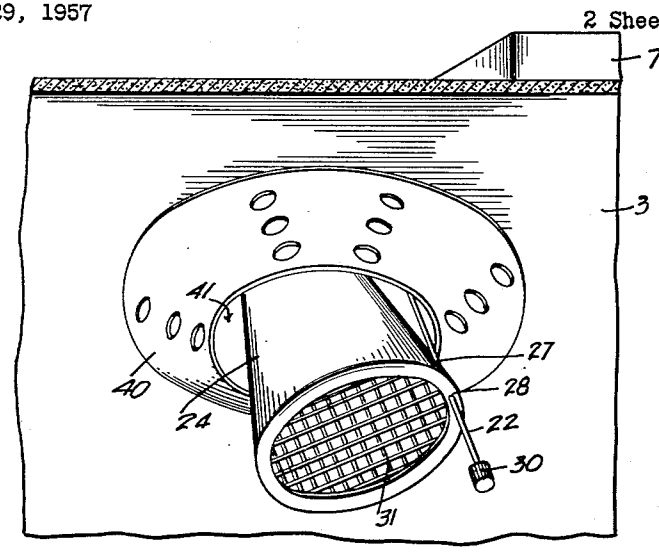
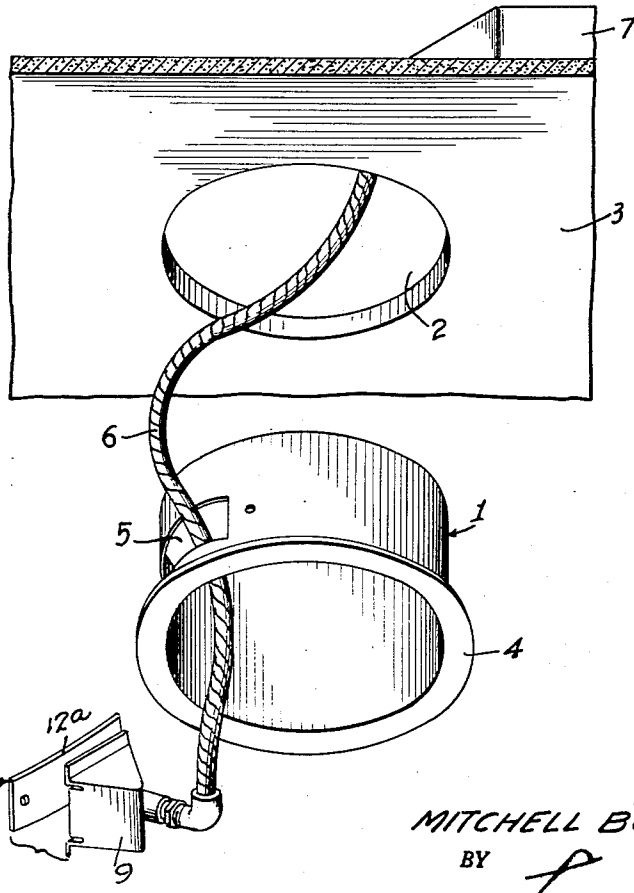


FIG. 2



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FIG. 3

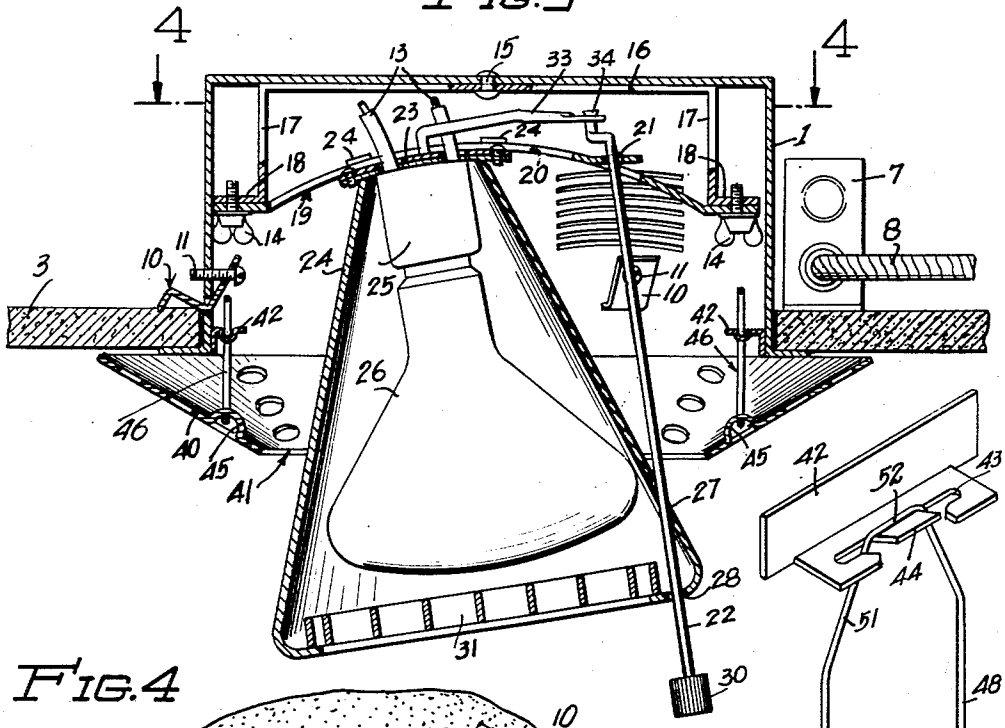


FIG. 4

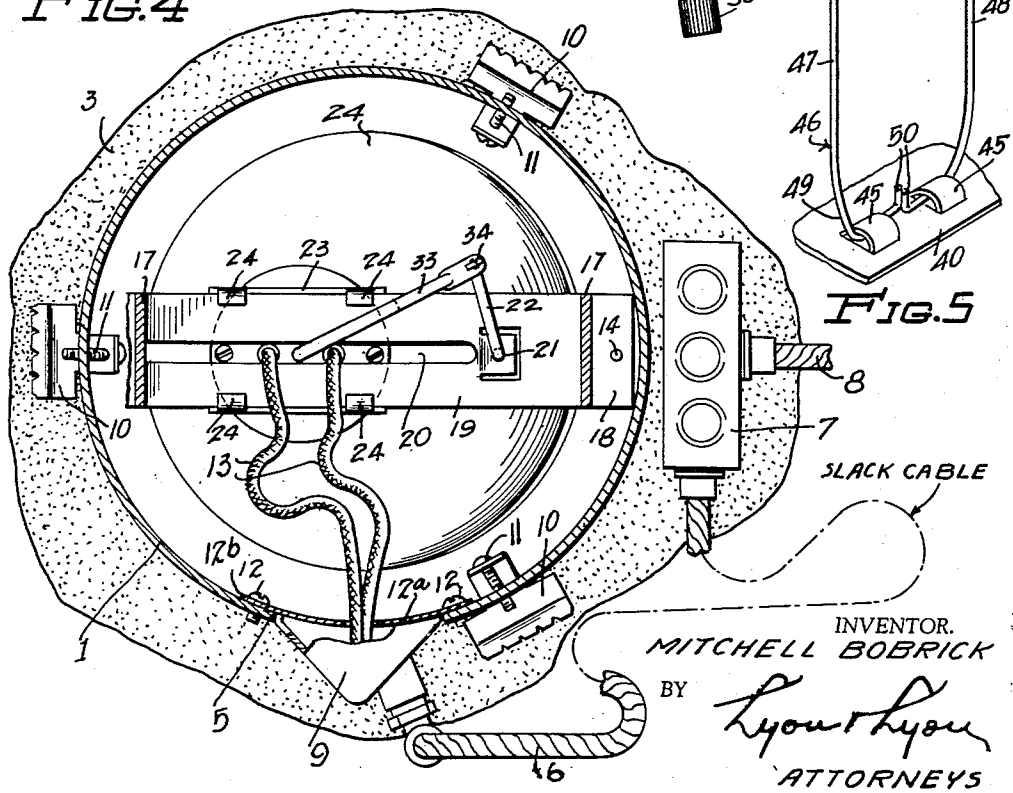


FIG. 5

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ADJUSTABLE SPOT LIGHT

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2 Claims. (Cl. 240—78)

My invention comprises an adjustable spot light, and more specifically a spot light which is recessed into a ceiling of a room.

An object of my invention is to provide a recessed ceiling spot light which can be tilted from a vertical position and is readily adjustable through substantially 360°.

Another object of my invention is to produce an adjustable spot light which can be connected to the usual junction boxes from inside the room and then the connecting cables and boxes pushed into the space above the ceiling.

Other objects and advantages of this invention will be readily apparent from the following detailed description of a preferred embodiment thereof:

In the drawings:

Figure 1 is a perspective view.

Figure 2 is an exploded partial perspective.

Figure 3 is a vertical section.

Figure 4 is a section taken on the line 4—4 of Figure 3.

Figure 5 is a perspective of a detail.

A spot light constructed in accordance with my invention comprises a housing 1, preferably circular in shape. The housing 1 is adapted to fit into a hole 2 in the ceiling 3 and has a flange 4 to fit and seal the edges of the hole 2. The housing 1 has an opening 5 in one side through which the wiring cable 6 from the junction box 7 is passed while the housing 1 is below the ceiling. The junction box 7 is connected to the house wiring 8 and attached to the ceiling before the housing 1 is placed in position. An auxiliary junction box 9 is connected by the cable 6 to the junction box 7. The housing 1 is inserted in the hole 2 and held in place by the spring clips 10 which are adjusted by the threaded bolt 11. After pushing the housing 1 in the hole 2 and affixing by the spring clips 10, the junction box 9 is passed through the hole 5 in the housing 1 and attached thereto by the bolts 12 through the cover 12*a* which holds the flanges 12*b* against the interior of the housing 1. The interior wiring 13 is attached to the junction box 9 before placing the housing 1 in the ceiling 3.

A pivot 15 in the center of the housing 1 provides a pivot point for a hanger 16. The hanger 16 is adaptable to rotate substantially 360° on the pivot 15. The hanger 16 has downwardly extending legs 17 which have outwardly extending flanges 18 on their ends. The arcuate strap 19 is attached to the flanges 18 by the wing nuts 14. The arcuate strap 19 has a slot 20. A bearing member 21 is formed in the strap 19 for the adjusting crank 22. A clip member 23 has its legs 24 extending upwardly and over the top of the arcuate strap 19 so that the clip member 23 is adapted to slide longitudinally on the arcuate strap 19. Attached to the clip 23 is a spot light housing 24 which has a light bulb socket 25 fastened thereto into which is put the spot light 26. The crank 22 extends through the bearing 21 and through the holes 27 and 28 in the spot light housing 24 and has a hand knob 30 at its lower end. Any type of lens, diffusing or non-diffusing, is incorporated at 31 in the housing 24. An arm 33 is affixed to the clip 23 at one end and by passing it through the slot 20, this arm is connected to the crank 22 at its end 34. The flexible wiring 13 passes through the slot 20 and is connected to the socket 25.

By this arrangement of parts, the entire spot light can be rotated substantially 360° as all elements pivot at 15. Also, the spot light can be tilted in any direction by rotating the crank 22 which moves the arm 33 and slides the clip 23 back and forth on the arcuate strap 19. Thus, my spot light is adjustable both through substantially 360° and can be tilted in any desired direction.

It is often desirable in this type of spot light to place a grill to close the space between the sides of the housing 1 and the spot light housing 24. For this purpose, I provide a grill member 40 which has a hole 41 therein through which the housing 24 extends. The housing 40 is attached to the housing 1 by means of spring clip fasteners. These spring clip fasteners comprise a flange 42 attached to the housing 1 which has therein an elongated slot 43 with a tongue 44 sticking out to partially close the slot 43. On the housing 40 a pair of indents 45 are provided for each spring clip. The spring clip 46 is formed of spring metal having legs 47 and 48 whose lower ends bend in slightly as shown at 49 and then at right angles to form hook members 50 which are positioned under indents 45. At the upper end of the legs 47 and 48 they are bent inwardly again as shown at 51 and are joined by a horizontal member 52 which is placed over the tongue 44.

To completely lower the housing 40, the clips 46 are removed from the tongue 44 allowing the housing 40 to drop freely. To close the housing tightly against the ceiling 2, the housing need merely be shoved upwardly and the spring clips will assert pressure on the ends of the slot 43 and hold the housing tightly in position. When minor adjustments are desirable, such as to get into the interior housing 1, all that is necessary is to pull the housing down and the spring clip 46 will slide into the position as shown in Figure 5, permitting egress to the interior of the housing 1.

I claim:

1. In a ceiling spot light, a housing, a pivot member carried by said housing, a hanger rotatable on said pivot member within said housing, an arcuate strap attached to said hanger, a member slidable on said strap, a lamp housing and lamp socket carried by said slidable member, a crank journaled in said strap, said crank extending from and below said spot light, an arm connecting said crank to said slidable member to move said member on said strap when said crank is rotated.

2. In a ceiling spot light, a housing, a pivot member carried by said housing, a hanger rotatable on said pivot member within said housing, an arcuate strap attached to said hanger, a member slidable on said strap, a lamp housing and lamp socket carried by said slidable member, a crank journaled in said strap, said crank extending from and below said spot light, an arm connecting said crank to said slidable member to move said member on said strap when said crank is rotated; an opening in said first-mentioned housing, a junction box adapted to pass through said housing opening and means to attach said box to said housing on the outside over said opening.

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