

March 9, 1948.

H. HANDLER

2,437,522

SPOTLIGHT

Filed Sept. 28, 1946

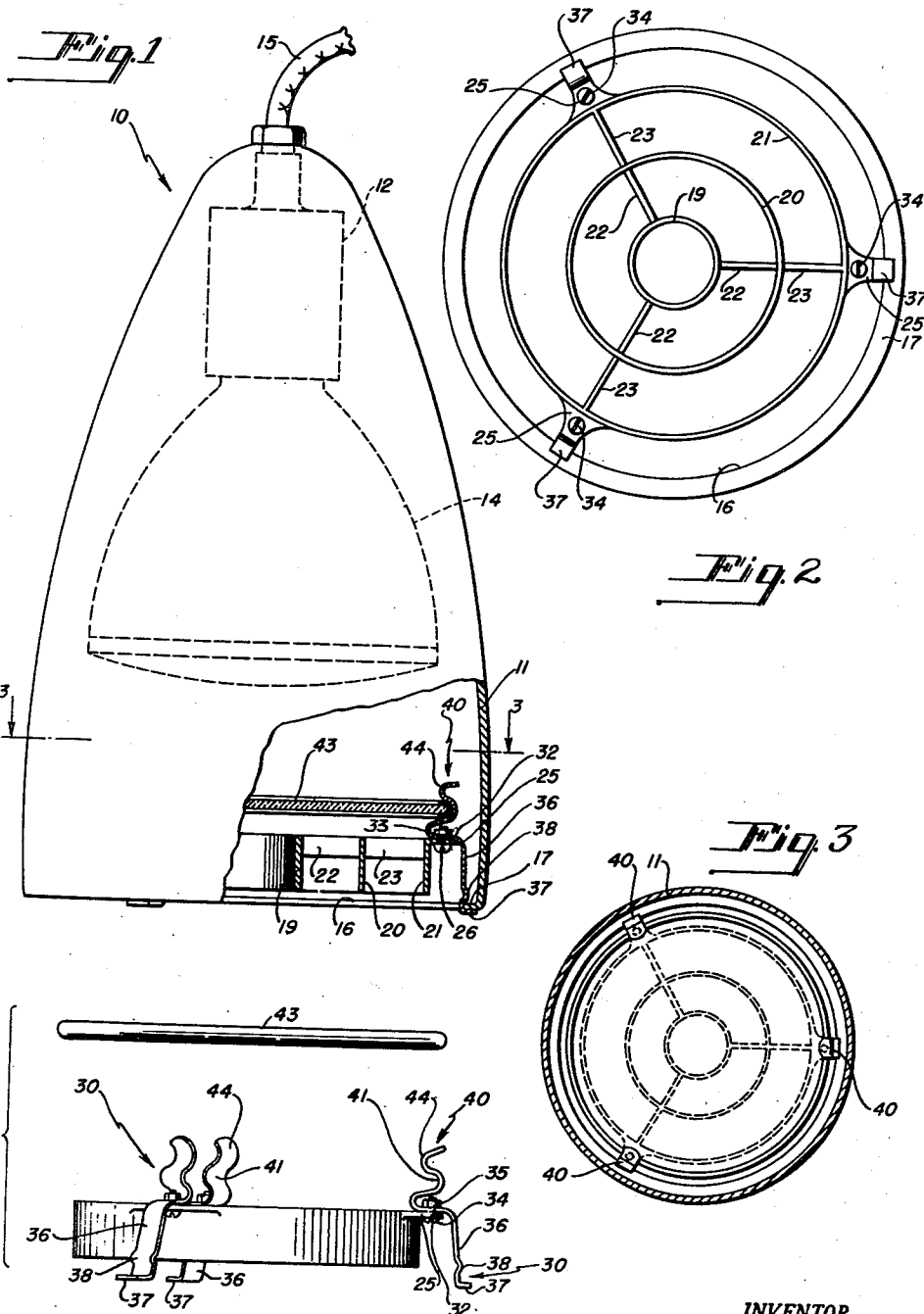


Fig. 4

INVENTOR.
Harry Handler
BY *Wintburn*
ATTORNEY

UNITED STATES PATENT OFFICE

2,437,522

SPOTLIGHT

Harry Handler, Brooklyn, N. Y., assignor of one-half to Nathan Dworkin, Brooklyn, N. Y.

Application September 28, 1946, Serial No. 699,969

4 Claims. (CL 240—3.1)

1

The present invention is directed toward improved construction for lighting fixtures of the type known in the art as spotlights used to illuminate shop window displays or for other suitable purposes where it is desirable to use spotlights.

One of the objects of the present invention is to provide in a spotlight of the character described novel means for easily and quickly attaching or detaching a light concentrating louvre thereto for the purpose of replacing the same or gaining access to the bulb or socket within or for any other desired purpose.

Another object of the present invention is to provide in a spotlight of the character described novel means for removably mounting a light concentrating louvre thereon, the said mounting means being so constructed and arranged as to additionally removably support a color projecting disc or screen.

Still another object of the present invention is to provide spotlights of the character described which shall be of simple and sturdy construction; which are economical to produce; which are simple and easy to manipulate and use and which possess many other advantages and superiorities, some of which will hereinafter be pointed out and others of which will become apparent from the description to follow.

In the accompanying drawing,

Fig. 1 is an elevational view, partly in section, of a spotlight constructed and arranged in accordance with the present invention;

Fig. 2 is a bottom view thereof;

Fig. 3 is a cross-sectional view taken along the line 3—3 of Fig. 1, but of smaller size; and

Fig. 4 is an elevational view of the louvre and mounting means therefor, shown as detached from the spotlight and with the color screen also in detached position from the mounting.

Referring now in detail to the drawings, I have shown a spotlight 10 constructed and arranged in accordance with my invention and which may comprise a reflector or casing 11, which may be of any conventional material design and shape, such as, for example the ovoid shape shown, and which is provided with a conventional socket 12 adapted to receive a lamp 13 therein. A suitable cable 15 is provided to furnish electric current from a source of supply (not shown).

In accordance with my invention, the wall surrounding the light outlet opening (16) of the casing is provided with an intumed flange 17, which may be continuous with the edge of the opening, as shown.

I provide, in connection with my spotlight 10,

2

a louvre which may be of any desired type comprising a plurality of concentric baffles 19, 20 and 21 maintained in spaced relationship by a plurality of radially disposed ribs 22 and 23 welded or otherwise suitably joined to form a unitary louvre structure. The outermost baffle 21 of the louvre 18 is provided with a plurality of circumferentially spaced, horizontally disposed lugs or tabs 25, which may be at least three in number, as illustrated, and may if desired be formed integrally with the upper edge of the said outermost baffle 21. Each of the said lugs 25 is provided with an aperture 26.

The following means are provided for readily and quickly removably attaching the louvre to the casing 11. I provide supporting elements, generally designated as 30, each being preferably formed from a strip of leaf spring material bent in such manner as to have a flat central portion 32, adapted to rest on the tab 25, and provided with an aperture 33 adapted to register with the aperture 26 and by means of which it may be secured to the said tab 25 by a bolt 34 passing through the registering apertures 33 and 26 and held in rigid attachment by a nut 35. The supporting element 30 further comprises a depending portion 36, which is slightly outwardly inclined and which is provided with an outwardly projecting flange 37 adjacent the free end thereof.

It is thus seen from the above described construction that when it is desired to attach the louvre to the casing 11 of the spotlight, it is merely necessary to project the same through the opening 16 so that the portions 36 of the resilient supporting members 30 contactively engage the inner edge of the flange 37. The amount of insertion of the louvre 18 will be limited by the flanges 37 abutting the intumed flange 17 of the casing. The outward inclination of the depending portions 36 will resiliently frictionally hold the louvre in attachment with the casing. However, to insure such retention of the louvre on the casing I provide each depending portion 36 of the supporting elements with an outward bulge 38, so disposed as to snap into position adjacent the inner surface of the flange 37, as clearly shown in Fig. 1 of the drawings.

In accordance with my invention, each of the supporting elements 30 may also be provided with an integral upper portion 40 preferably bent into an S-shape, and extending from the central portion 32, the lower inwardly concaved portion 41 of which is designed to serve as a seat for the edge of a translucent disc 43 which may be a

3

color screen or like article for projecting color lighting effects to the objects to be spotlighted. The convexed portion 44 is designed to serve as a cam surface to permit the resilient insertion or removal of the color plate 43.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiments above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawings is to be interpreted as illustrative and not in a limiting sense.

Having described my invention, what I claim and desire to secure by Letters Patent is:

1. A spotlight of the character described, comprising a reflector casing having an opening, said opening having an inturned flange, a louvre removably arranged in said opening, said louvre comprising a plurality of concentric baffles, the outermost of said baffles having a plurality of spaced, outwardly extending tabs, a mounting element secured to each of said tabs, said mounting element comprising a depending spring member and an upwardly extending spring member, said depending spring member pressing outwardly and having an outwardly turned flange and an outwardly pressed projection above said outwardly turned flange adapted to receive the said inturned flange of the said casing between them, said upwardly extending spring member having a curved portion adapted to removably resiliently receive therein the edge of a disc.

2. A spotlight of the character described, comprising a reflector casing having an opening, said opening having an inturned flange, a louvre removably arranged in said opening, said louvre having a plurality of spaced mounting elements secured to the periphery thereof, each of said elements including a depending outwardly pressing spring portion and an upwardly extending spring portion, said depending spring portion having an outwardly bent flange and an out-

4

wardly pressed projection above said outwardly bent flange forming a seat between them for the said inturned flange of said casing, said upwardly extending spring portion having a curve formed therein adapted to removably receive and seat the edge of a disc.

3. A spotlight of the character described, comprising a reflector casing having an opening, a ring member mounted in said reflector opening, said ring member having at least three mounting elements secured thereto adjacent the periphery thereof, in triangular spaced relationship, each of said mounting elements including a depending, outwardly pressing spring member and an upwardly extending inwardly pressing spring member, said depending spring members frictionally engaging the edge of the said reflector opening and said upwardly extending spring portions frictionally engaging the edge of a disc.

4. A spotlight according to claim 1 in which the said mounting elements each comprises a central flat portion integral with and interconnecting said depending spring member and said upwardly extending spring member and in which said central flat portion overlies and is directly secured to a corresponding tab.

HARRY HANDLER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,669,740	Dewey	May 15, 1928
2,071,159	Benjamin	Feb. 16, 1937
2,136,323	Shields	Nov. 8, 1938
2,214,600	Winkler	Sept. 10, 1940
2,298,556	Foss et al.	Oct. 13, 1942
2,426,093	Hardman	Aug. 19, 1947
2,430,472	Levy	Nov. 11, 1947

FOREIGN PATENTS

Number	Country	Date
446,962	Great Britain	May 8, 1936