

June 11, 1957

J. R. COOPER
FLOODLIGHT

2,795,690

Filed May 5, 1955.

2 Sheets-Sheet 1

Fig. 1.

Fig. 5.

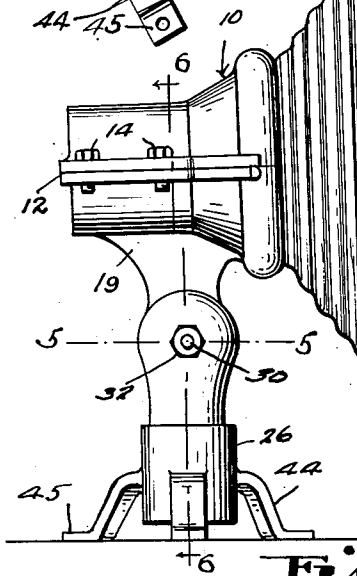
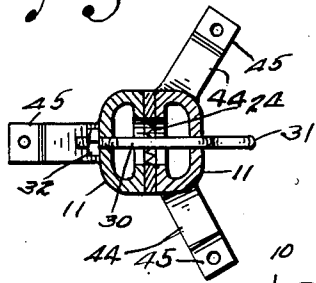


Fig. 2.

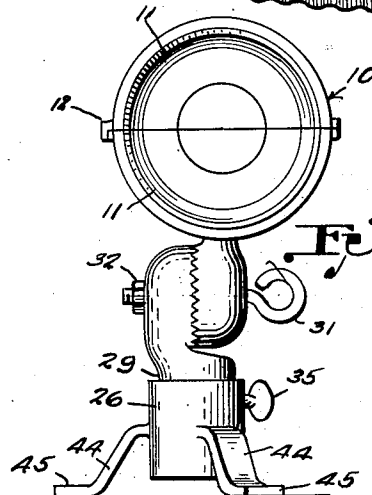
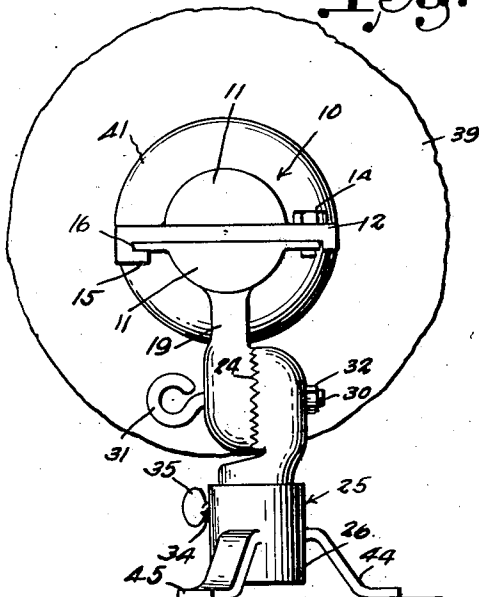


Fig. 3.

J. R. Cooper INVENTOR

BY *CA Snow & Co.*
ATTORNEYS.

June 11, 1957

J. R. COOPER

2,795,690

FLOODLIGHT

Filed May 5, 1955

2 Sheets-Sheet 2

Fig. 4.

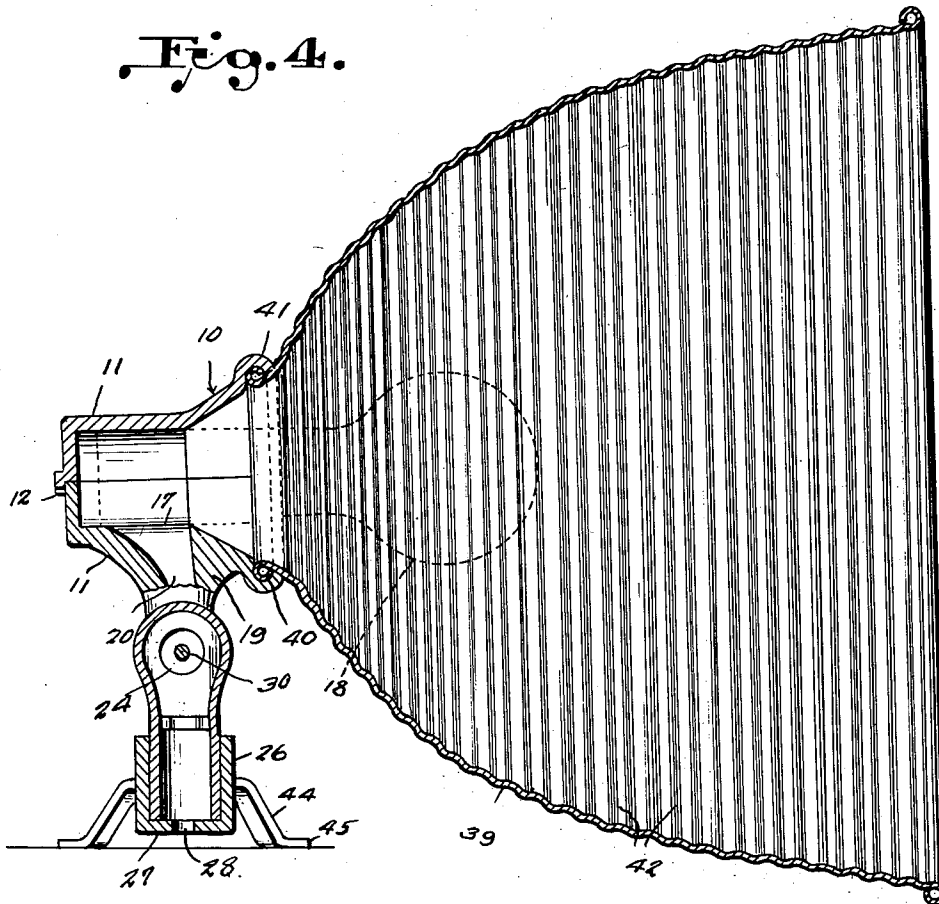


Fig. 6.

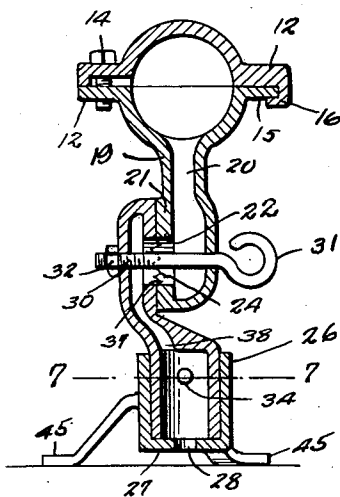
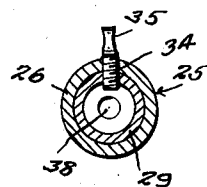


Fig. 7.



J. R. Cooper
INVENTOR

BY *Calnow & Co.*
ATTORNEYS.

1

2,795,690

FLOODLIGHT

John R. Cooper, Miami, Fla., assignor of one-half to
Simon Gross, Miami, Fla.

Application May 5, 1955, Serial No. 506,140

1 Claim. (Cl. 240—3)

This invention relates to a combined floodlight, floodlight shade and bracket therefor.

It is an object of this invention to provide a novel combination of a floodlight, a floodlight shade and bracket therefor of the kind to be more particularly described hereinafter by the use of which the light emanating from the shade may readily be directed in any desired direction from the source of light.

Another object of this invention is to provide a combination floodlight and shade having rounded internal corrugations which will replace the need for a lens to properly diffuse the light rays being projected from the shade to a certain area to properly focus the light rays.

Still another object of this invention is to provide a floodlight and bracket of this kind having a pair of correlated half socket sections for attachment to an end of a shade, each socket section having a part of a serrated pivot section formed integrally therewith from which the shade may be pivotally directed.

Another object of this invention is to provide a combined floodlight shade and shade holder therefor made of identically the same material, so that the unit may be easily and readily constructed at a substantial saving in the cost of manufacture thereof both to the manufacturer and user, and at the same time providing for an improved novel and useful floodlight shade.

Other and further objects and advantages of the invention will be hereinafter described and the novel features thereof defined in the appended claim.

In the drawings:

Figure 1 is a side elevation of my improved floodlight shade and bracket therefor constructed according to an embodiment of my invention.

Figure 2 is a rear elevation, partly broken away, of my invention.

Figure 3 is a front elevation of my invention with the shade removed.

Figure 4 is a longitudinal section of my invention with a shade attached thereon.

Figure 5 is a fragmentary longitudinal section taken on line 5—5 of Figure 1.

Figure 6 is a fragmentary transverse section taken on line 6—6 of Figure 1.

Figure 7 is a fragmentary detailed section taken on line 7—7 of Figure 6.

In the structure of floodlights and reflectors therefor, there has been considerable difficulty in assembling the reflector and bracket therefor and I have manufactured this invention with that thought in mind to produce a floodlight and bracket therefor which may be made of a substantially unitary structure, or at least cast from the same material so that both the floodlight reflector and bracket therefor may be made at the same time and of the same material both as a saving to the manufacturer and a resulting saving to the buyer.

Referring now more particularly to the drawings, the numeral 10 designates generally a floodlight reflector and bracket therefor having a pair of floodlight reflector sec-

2

tions 11 secured together after they are formed to provide a complete conical base section of the reflector on the bracket. Each of the floodlight reflector sections 11 has a flange 12 extending longitudinally thereof on the opposite side edges of the reflector which are secured together by bolts 14 and provide thereby a complete base or socket for a floodlight reflector.

A light sealing and locking flange 15 is provided on one of the flanges 12 for completely sealing the light in the reflector and these flanges, the member 14 and flange 15 provide a substantial guide 16 for engaging a flange 12 of another segmental reflector section.

The reflector thus formed will provide for a socket for engaging about a bulb socket 17 having an electric light bulb 18 threaded therein and spaced longitudinally from the built-up reflector of my invention.

There is an attaching arm 19 formed integral with and extending downwardly and outwardly from one of the floodlight reflector sections 11 as clearly noted in Figure 4 of the drawings. This attaching arm 19 has an opening 20 extending along the length thereof with a flat disc 21 on one side of the arm 19. This flat disc 21 has a center opening 22 therein from which radiate the radially extending serrations 24 for the angular attachment of the reflector to the attaching arm 18 in a manner to be more particularly described hereinafter.

The base 25 includes an outer cylindrical base socket 26 open at the upper end thereof and substantially closed at the lower end with a bottom wall 27, having a central axial opening 28 therein for the purposes again to be more particularly described hereinafter.

A second or inner socket 29 is enclosed within the outer base socket 26, the inner and outer sockets of the base being held together and secured together against rotation or sliding movement by a transversely extending bolt 34 which extends transversely through the attaching arm 29. Another bolt 30 extends through the opening 22 and upper flattened end of the cylindrical inner sleeve of the inner socket 29 as most clearly indicated in Figure 6 of the drawings. An eye 31 is provided on one end of the bolt 30 while the other end of the bolt which is extensible through both the attaching arm 19 and upper flattened end of the inner base sleeve or socket 29, is threaded for attachment of a fastening element or nut 32 thereon when the serrations on the attaching arm 19 and the serrations carried by the upper flattened end of the inner socket 29 are meshed together for securing engagement.

The bolt 34 is engaged through both the inner and outer base sockets 26 and 29 so that the base sockets may be secured together in any selected position relative to each other.

One end of the bolt 34 is enlarged as indicated by the reference numeral 35.

This upwardly extending flat end of the inner socket 29 is provided with a plurality of radially extending serrations 37 which are engageable with the serrations 24 of the disc 21 on the attaching arm 19 upon fastening engagement of the bolt 30, with the eye thereon, when the floodlight has been pivoted to its desired relation with the base.

An opening 28 is formed in the lower transverse wall of the outer base socket 26 through which the electric lead for the floodlight may be engaged when the floodlight and bracket therefor are placed in operation.

A light shade 39 may be attached to the floodlight, although such a shade would not necessarily be required for the use of this floodlight and bracket therefor.

An inner bead 40 is formed on the more restricted end of the substantially conical shade 39 engageable in a groove 41 about the outer end of the floodlight-engaging socket described above.

The shade 39 is substantially as a reflector having a

3

plurality of radially extending corrugations 42 disposed longitudinally of the shade. Having such corrugations, the shade may be made of a flat sheet of metal formed to the desired and described configuration. These corrugations have their part in the diffusion of the light rays emanating from the light bulb in the floodlight socket. However, such a shade 39 would not be necessary for the proper use of this floodlight and bracket therefor, as the light emanating from the light bulb 18 and floodlight sections 11 may be so diffused that the shade 39 may be unnecessary.

The base 25 has a plurality of radially outwardly extending legs 44 with the foot 45 on the outer end thereof spaced from the outer base socket 26 as clearly indicated in the drawings. These legs and feet provide for the attachment of the floodlight and bracket where and as desired, although the particular arrangement of the base and floodlight are particularly adapted for use on a flat supporting member, not shown in the drawings.

While the specific details of one embodiment of this invention have been herein shown and described, the invention is not confined thereto as changes and alterations may be made without departing from the spirit and scope thereof as defined in the appended claim.

I claim:

In a floodlight, a base formed of a cylindrical outer wall, a plurality of radially extending arms extending from said outer wall, an inner cylindrical wall disposed in said outer wall, a bolt securing said walls together, an upstanding flat hollow arm rising from said inner wall,

4

an upper combined reflector and socket, a depending hollow arm extending from said combined reflector and socket, said depending hollow arm terminating in a hollow circular member, radial teeth carried by said circular member, radial teeth carried by said flat hollow arm, said combined reflector and socket including a lower semi-cylindrical member integral with said depending arm, lateral flanges carried by said semi-cylindrical member, an upper complementary semi-cylindrical member, lateral flanges extending from said upper semi-cylindrical member, an inwardly projecting locking flange carried by one of said latter named flanges, one of said first named flanges engaging between said locking flange and said one flange of said upper semi-cylindrical member, a bolt extending through the other one of said first and second named flanges, semi-conical projections extending from said semi-cylindrical members and each projection formed with a groove on the inner side thereof and adjacent the large outer end, and a shade carried by said projections, said shade including an inner bead seating in said grooves.

References Cited in the file of this patent

UNITED STATES PATENTS

1,321,521	Green	Nov. 11, 1919
1,695,061	Robinson et al.	Dec. 11, 1928
2,511,937	Natale	June 20, 1950
2,587,917	Stone	Mar. 4, 1952
2,645,705	Rutledge	July 14, 1953