

Nov. 5, 1940.

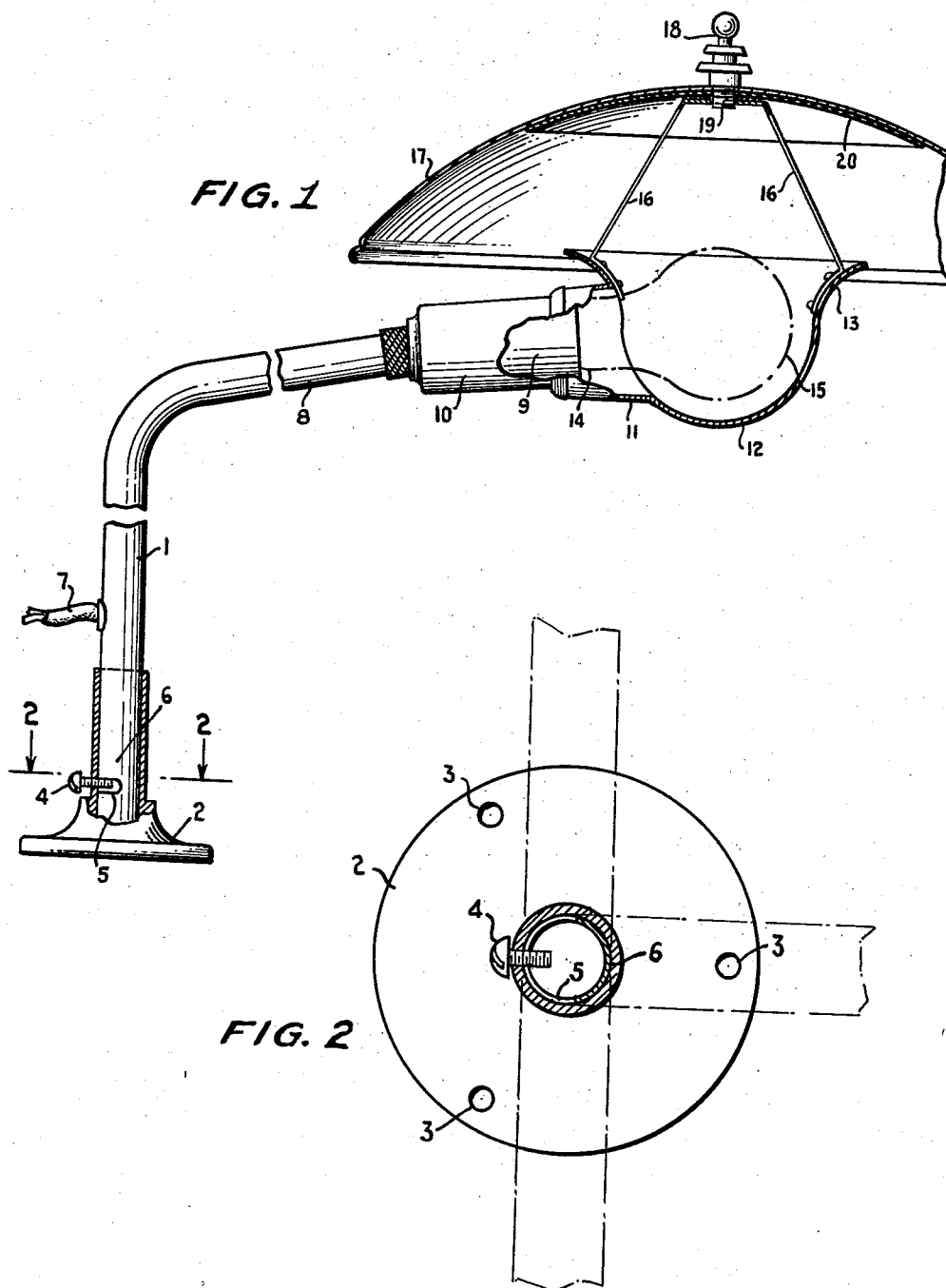
P. N. CLOUTIER

2,220,215

DESK LAMP

Filed Feb. 11, 1939

2 Sheets-Sheet 1



INVENTOR.
PAUL N. CLOUTIER
BY *Harry Lea Dodson.*
ATTORNEY.

Nov. 5, 1940.

P. N. CLOUTIER

2,220,215

DESK LAMP

Filed Feb. 11, 1939

2 Sheets-Sheet 2

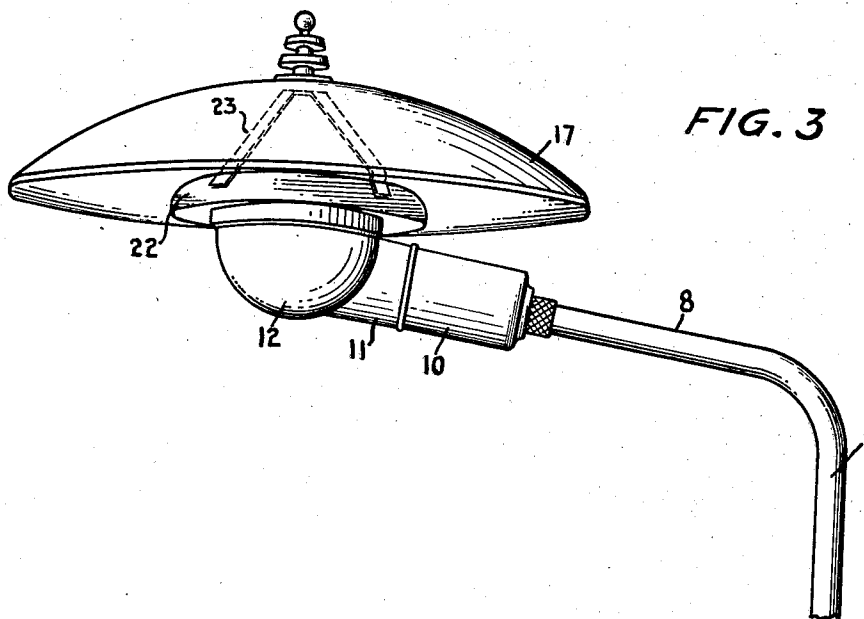


FIG. 3

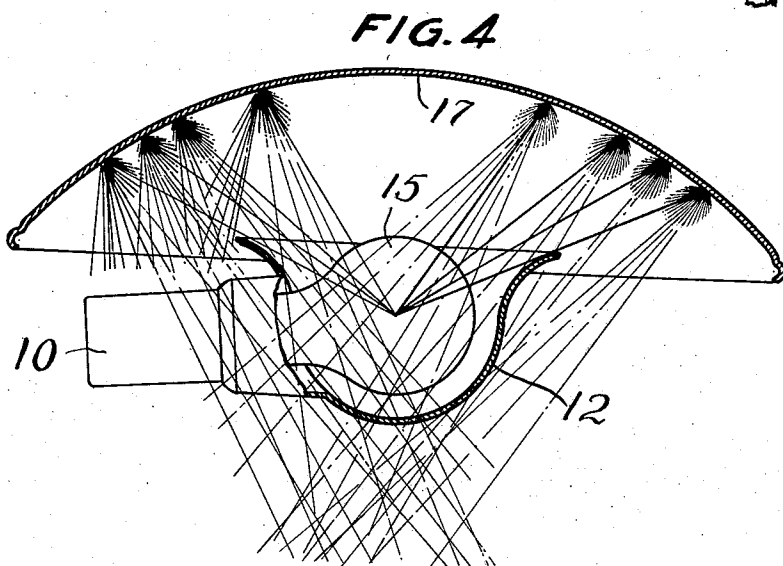


FIG. 4

INVENTOR.
PAUL N. CLOUTIER
BY *Harry Lea Dodson.*
ATTORNEY.

UNITED STATES PATENT OFFICE

2,220,215

DESK LAMP

Paul N. Cloutier, Decatur, Ill., assignor to Faries Manufacturing Company, Decatur, Ill., a corporation of Illinois

Application February 11, 1939, Serial No. 255,796

2 Claims. (Cl. 240—81)

My invention relates to lamps, which are designed to be attached to a desk or other article of furniture for local illumination.

The object of my invention is to provide a lamp which, when secured to a desk, may be swung about its base, so as to afford local illumination, not only for various parts of the desk, but also for business appliances, such as typewriters, adding or billing machines, etc., which may be located in juxtaposition to the desk upon which the lamp is mounted.

A further object is to provide for the distribution of the light rays by diffuse reflection, thereby eliminating objectionable shadows and, to a considerable extent, veiling glare.

A further object is to provide for the use of a supplemental reflector, which will act as a color filter, thus producing an effect approximating daylight.

My means of accomplishing the foregoing objects may be more readily understood by having reference to the accompanying drawings which are hereunto annexed and are a part of this specification, in which:

Fig. 1 is a side view partly in section, showing my improvement embodied in a lamp of the type referred to;

Fig. 2 is a cross sectional view taken on the line 2—2 in the direction of the arrows shown in Fig. 1;

Fig. 3 is a modified form of construction; and Fig. 4 is a detail view, showing how the light rays are reflected.

Similar reference numerals refer to similar parts throughout the entire specification.

As shown in the drawings, the lamp comprising a standard 1 which is swingingly mounted in a base 2, which if desired may be secured to a desk by screws (not shown) which pass through holes 3 provided in the base 2 for that purpose.

A screw 4, which acts as a detent, is mounted in the base 2 and passes through a slot 5 formed in the lower portion 6 of the standard 1. This slot may extend through any desired arc of a circle short of 360°, thus preventing the standard being swung entirely around thereby twisting the electric wires 7.

The standard 1, as shown, is provided with a substantially horizontal arm 8 to which is attached an electric lamp socket 9 of standard construction. The socket 9 is enclosed in a socket cover 10. To this socket cover 10 I secure a sleeve 11 which extends laterally from one side of a lower reflector 12. The annular wall of which is flared outwardly and upwardly as at 13

in Fig. 1. The neck 14 of the electric lamp bulb 15 extends through the sleeve 11 and is screwed into the socket 9.

A reflector support 16 is secured in any suitable or desired manner to the lower reflector 12. A concave downwardly facing reflector 17 is carried by the reflector support 16. This reflector 17 is secured in place by means of a finial 18, the lower part 19 of which is screwed into the support 16 in the customary manner. The inner surface of the reflector 17 is provided with a reflecting coating, preferably of diffusely reflecting material. The result of this construction is diagrammatically shown in Fig. 4 which illustrates the manner in which the light rays are reflected. It will be seen from this diagram that the diffused light rays will reach the working plane below the lower reflector 12, and in this manner avoid objectionable shadows.

When it is desired to approximate daylight, I provide a supplemental reflector 20 which is of smaller diameter than the reflector 17. This supplemental reflector 20 may be constructed of color filter material, or it may be coated with a suitable substance, which will act as a filter.

In some cases, it may be found desirable to construct the lamp as shown in Fig. 3 in which, in addition to lower reflector 12, I mount a small annular reflector 22 preferably formed of diffusing glass which is carried by arms 23 which extend downwardly from the reflector support 16. This helps to further diffuse the light rays emitted by the lamp bulb 15.

While I have shown a specific construction for the embodiment of my invention, it should be understood it is only for the purpose of illustrating a preferred embodiment thereof. Many changes in the details may be made without departing from the scope of my invention, and I do not wish to be understood as limiting myself except as such limitations may appear in the hereinafter contained claims.

Having described my invention what I regard as new and desire to secure by Letters Patent is:

1. In a desk lamp, a base, a swinging standard mounted in said base, means to prevent said standard swinging through 360°, a substantially horizontally arm on said standard, a socket on said arm, a socket cover therefor, an electric lamp bulb in said socket, an upwardly opening reflector, the walls of which flare upwardly and outwardly, a laterally extending sleeve on one side thereof through which the neck of the lamp bulb passes to reach the socket, a concave downwardly facing reflector mounted above said up-

wardly facing reflector, the lower edge of the inverted reflector being in a plane below the edge of the upwardly facing reflector, and a detachable supplemental reflector of smaller diameter
5 than the downwardly facing reflector, having a surface which acts as a color filter, said detachable supplemental reflector being fitted to the center of said concave reflector, said inverted reflector being provided with a diffuse reflecting
10 surface whereby only diffusely reflected light rays reach the working plane.

2. In a desk lamp, a base, a swinging standard mounted in said base, means to prevent said standard swinging through 360°, a substantially
15 horizontal arm on said standard, a socket on said arm, a socket cover therefor, an electric lamp

bulb in said socket, an upwardly opening reflector, the walls of which flare upwardly and outwardly, a laterally extending sleeve on one side thereof through which the neck of the lamp bulb
5 passes to reach the socket, reflector supports secured to the said upwardly facing reflector, a concave downwardly facing reflector carried thereby, a diffuse reflecting surface on its inner surface whereby only reflected light rays reach
10 the working plane, and a detachable supplemental reflector of smaller diameter than the downwardly facing reflector formed of material which acts as a color filter fitted to the center of said downwardly facing reflector and carried by
15 said supports.

PAUL N. CLOUTIER.