C. D. KLINE.

LIGHT SHADE.

APPLICATION FILED JAN. 9, 1919.

1,329,187.

Patented Jan. 27, 1920.

FIG. 1.

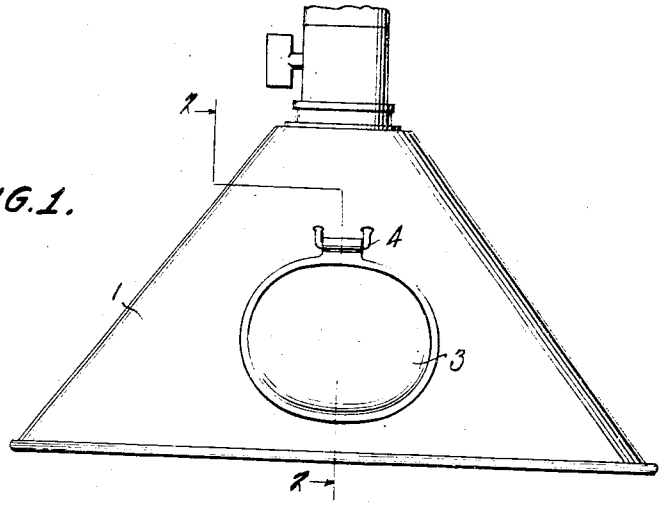


FIG. 2.

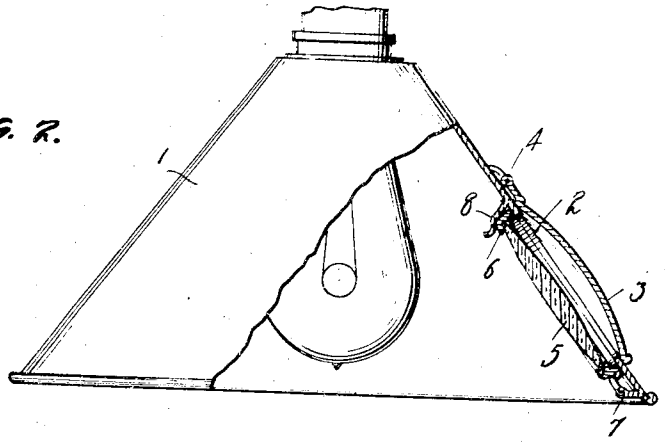
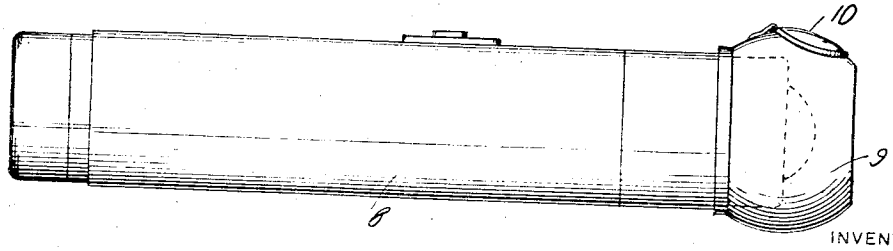


FIG. 3.



INVENTOR

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WITNESSES

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UNITED STATES PATENT OFFICE.

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LIGHT-SHADE.

1,329,187. Specification of Letters Patent. Patented Jan. 27, 1920.

Application filed January 9, 1919. Serial No. 270,334.

To all whom it may concern:

Be it known that I, CHARLES D. KLINE, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Light-Shades, of which the following is a specification.

The invention has for its main object to protect the eyes, and to concentrate rays of light, thereby admitting of objects being scrutinized more closely than under conditions where light is diffused.

In accordance with the invention, a shade is provided and disposed to encompass the light and thereby concentrate the rays, such shade being provided with an opening which is utilized for observation, such opening being protected when required by means of a suitable cover which may be turned aside when observation is required to be made through the opening in the shade.

The invention also has for its object to combine with the shade a lens which is disposed opposite the observation opening in the shade, thereby enabling the thing to be examined, to be closely scrutinized for defects, such lens being mounted preferably in a manner to be removed, whereby it may be used in the ordinary capacity of a reading glass.

The drawing illustrates a preferred embodiment of the invention, however, it is to be understood that in adapting the same to meet different conditions, various changes in the form, proportion, and minor details of construction may be resorted to without departing from the nature of the invention as claimed hereinafter.

In the drawing:—

Figure 1 is an elevation of a light shade, embodying the invention,

Fig. 2 is a sectional view on the line 2—2 of Fig. 1, parts being broken away, and

Fig. 3 is a side view of a modification, showing the invention applied to a flash light of ordinary construction.

Corresponding and like parts are referred to in the following description and indicated in the several views of the drawing by like reference characters.

It is to be understood that the light may consist of any of the well known forms, comprised under the general class of electric, oil, or gas, and that the shade may be constructed of any suitable material, and in any way so as to encompass the light, and concentrate the rays, and thereby prevent diffusion.

Figs. 1 and 2 illustrate the invention associated with an electric lamp of the incandescent type, the shade being of conical form and fitted to the lamp so as to encircle the bulb and illuminating portion. The shade 1 is provided in a side with an opening 2, which may be of any size and form. In this connection it is noted that any number of openings may be provided, but usually one is sufficient. A cover 3 is provided for closing the opening therein when the latter is not required for immediate use, and this cover 3 may be in any formation and is preferably hinged to the shade, as indicated at 4, so as not to become misplaced. When it is required to utilize the opening 2 the cover 3 is thrown upward so as to lie against the shade and thereby disclose the opening 2, thereby admitting of the person observing or inspecting the work held within the shade in position to receive the full rays of the light.

In the event of it being required to discover small defects, a lens 5 is disposed opposite the opening 2, and this lens may be of any nature so as to magnify the work or article under inspection. It is preferred to mount the lens 5 in a manner to admit of its removal from the opening 2, so that an article may be observed or scrutinized in the usual way without being magnified. The lens 5 is mounted in a frame 6 and the latter is hinged to the shade as indicated at 7. A catch 8, provided on the shade, engages the frame 6 and holds the lens when adjusted in line with the opening 2. When the lens is released from the catch 8 it may be dropped below the shade so as to be used for any purpose desired in the capacity of a reading glass. When the lens is moved so as to clear the opening 2, work may be inspected through such opening in the usual way.

It will be understood from the foregoing that by reason of the rays of light being concentrated the eyes are not subjected to strain, and moreover, work may be more thoroughly inspected because of the concentration of the light and the vision, and in the case of small or fine work the same may be magnified by adjusting the lens 5 so as to come opposite the observation opening 2. When the shade is not required for immediate use the cover 3 may be adjusted so as to extend through the opening 2 thereby admitting of the shade

being used in the ordinary way of a shade such as commonly provided for lamps of various types.

Fig. 3 shows a flash light 8, of ordinary construction, the same being provided at one end with a shade 9, which is approximately of globular form, and is provided in a side with an opening, to which a cover 10 is fitted in substantially the same manner as the cover 3. The shade 9 serves to concentrate the rays of light, hence the latter may be projected to a greater distance, particularly if the inner walls of the shade are highly polished so as to act as a reflector. When it is required to inspect an article the same is inserted within the shade 9 to a position to have the rays of the light shine thereon, and such article may be inspected through the opening after the cover 10 has been turned aside.

The foregoing description and the drawings have reference to what may be considered the preferred, or approved, form of my invention. It is to be understood that I may make such changes in construction and arrangement and combination of parts, materials, dimensions, et cetera, as may prove expedient and fall within the scope of the appended claim.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

A light shade having an opening in a side thereof, a lens disposed within the shade and pivoted thereto at a point below and adjacent the opening to swing downwardly out of the way, a catch above and adjacent the opening to engage the lens and retain it in operative position, and a cover exterior to the shade and pivoted thereto at one side of said opening.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES D. KLINE.

Witnesses:
JAS. J. MAGUIRE,
MARGUERITE E. TEMPLE.