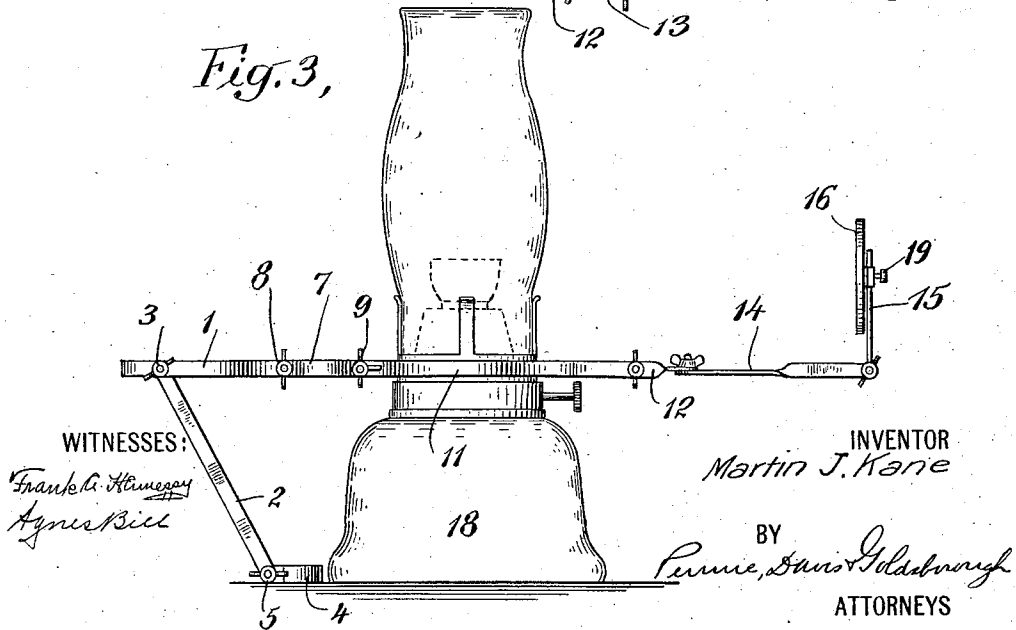
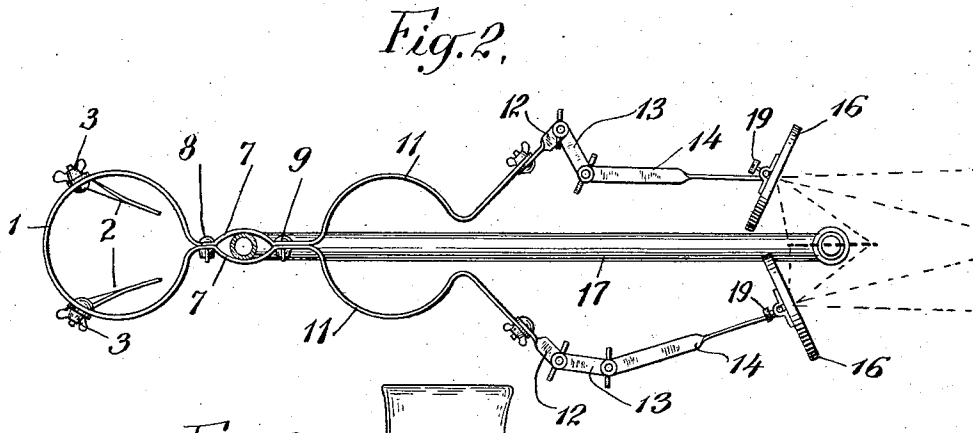
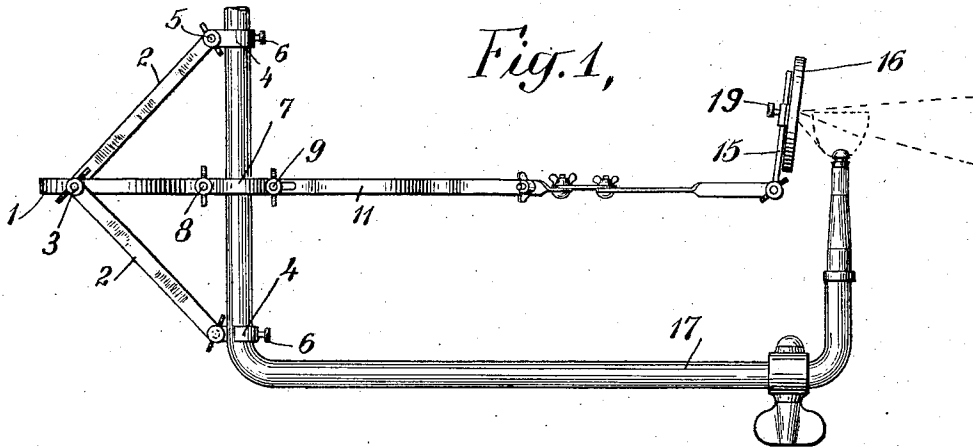


M. J. KANE.
REFLECTOR SUPPORT.
APPLICATION FILED NOV. 22, 1911.

1,024,900.

Patented Apr. 30, 1912.



UNITED STATES PATENT OFFICE.

MARTIN J. KANE, OF BAYONNE, NEW JERSEY.

REFLECTOR-SUPPORT.

1,024,900.

Specification of Letters Patent.

Patented Apr. 30, 1912.

Application filed November 22, 1911. Serial No. 661,715.

To all whom it may concern:

Be it known that I, MARTIN J. KANE, a citizen of the United States, residing at No. 79 West Seventeenth street, Bayonne, Hudson county, New Jersey, have invented certain new and useful Improvements in Reflector-Supports; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to reflector supports and particularly to supports of a simple and inexpensive construction adapted for attachment to gas-burners, oil lamps, and the like, and capable of a wide range of movement for independently adjusting a reflector to different distances, heights and angular positions relatively to the light, whereby one form of support may be readily and securely attached to any one of several different types of light sources, and whereby the reflector may at will be quickly adjusted in any position to direct the reflected light as desired to any particular place.

In accordance with my invention a reflector-support is provided having a plurality, preferably two, embracing parts of different accommodation, the one being suitable for embracing a bracket or pipe such as is commonly used to support gas and electric lights, and the other of larger accommodation suitable for embracing oil lamps and the like.

In order to produce a balanced and symmetrical structure, the lamp-embracing portion is located centrally, with the pipe-embracing portion extending from one side and a suitable adjustable reflector-supporting extension or extensions from the other side, so that the pipe-embracing portion serves to balance in some degree the weight of the reflector-supporting arm or arms when the device is attached to a lamp; and for the purpose of giving to the device an initial clamping tendency there is provided a spring loop beyond the pipe-embracing portion, which further balances the weight of the reflector-supporting arm or arms, while between the lamp-embracing portion and the pipe-embracing portion is provided a suitable clamp adapted to be opened to permit the device to embrace a pipe, and serving when closed to supplement the initial clamping action of the spring loop. It is further of advantage to provide a brace or

braces such as hereinafter described to brace the reflector-support when it is attached to a pipe and to serve as a steadying foot or feet when the device is attached to a lamp. In the preferred form of the invention, two reflector supports are provided so that they may be used to collectively concentrate the light on one area, or individually direct it to different areas.

In the accompanying drawings showing my invention as applied in illustrative ways, Figure 1 shows in elevation the support and reflectors attached to a gas pipe; Fig. 2 is a plan view of Fig. 1; Fig. 3 shows a similar support and reflectors attached to an oil lamp.

In Figs. 1 and 2, the reflector support is attached to the upright part of the gas fixture 17, but obviously the support may be attached to the horizontal part if desired. The support is made of springy material, such as steel, and the part 1 forms a spring loop tending to close the arms at the embracing parts. This loop may carry two braces 2 adjustably connected thereto by wing bolts 3 and having adjustable collars or feet 4 adapted to be fastened to the respective braces by wing bolts 5 and to the attachment by set screws 6, or the like. The cooperating arched parts 7 are adapted to embrace a pipe or the like of comparatively small size, and after being slipped around the pipe they are clamped tightly thereon by the wing bolts 8 and 9, one of which, 9 for example, is adjustable in an elongated slot 10 so as to accommodate pipes of a wide range of sizes or shapes. The cooperating embracing parts 11 are adapted to be sprung around a larger attachment, such as a lamp 18 as shown in Fig. 3, the bolts 8 and 9 being capable of varying the holding pressure. Each arm may comprise a plurality of sections, such as 12, 13, 14 and 15, as shown in Figs. 1 and 2, or 12, 14 and 15, as shown in Fig. 3, the arms having either the same or a different number of sections, and the arrangement being such that sufficient extension and adjustment is provided. The reflectors 16 may be of any suitable kind and are adjustably secured to the section 15 by set screws 19.

It is evident from the above that the reflector support may be readily and securely fastened to attachments of different sizes and shapes and that the reflectors may be independently adjusted throughout a wide

range to independently or collectively concentrate or distribute the light from the source over any area or areas desired. It will also be observed that the spring loop 1 and the arched embracing parts 7 and 11 are preferably made of a single piece of material bent to the desired form and given the proper spring stress, whereby the reflector support is of simple and inexpensive construction. In Fig. 3, the braces 2 rest on the table on which the lamp stands and serves to prevent overturning of the lamp.

From the drawings thus described the general nature and object of my invention will be understood, and I refer to the following claims for an understanding of its scope.

Having thus described my invention what I claim is:

1. A reflector support having a plurality of embracing parts of different accommodation, two reflector supporting arms each comprising a plurality of sections fastened together for swinging movements in different planes, a substantially closed spring loop uniting the cooperating embracing parts and a plurality of braces adjustably fastened at their inner ends to said loop and having fastening means at their outer ends.

2. A reflector support having a central lamp-embracing portion, a reflector-supporting arm extending from one side of the lamp-embracing portion, and a balancing extension from the other side of said portion, the balancing extension including a pipe-embracing portion; substantially as described.

3. A reflector support having a central lamp-embracing portion, a reflector-supporting arm extending from one side of the lamp-embracing portion, and a balancing extension from the other side of said portion, the balancing extension including a pipe-embracing portion and having means adapted to brace the reflector-support when it is attached to a pipe and to serve as steadying means when the support is attached to a lamp; substantially as described.

4. A reflector support having a central lamp-embracing portion, a reflector-supporting arm extending from one side of the lamp-embracing portion, and a balancing extension from the other side of said portion,

the balancing extension including a pipe-embracing portion and a spring loop beyond the pipe-embracing portion; substantially as described.

5. A reflector support having a central lamp-embracing portion, a reflector-supporting arm extending from one side of the lamp-embracing portion, and a balancing extension from the other side of said portion, the balancing extension including a pipe-embracing portion and a spring loop beyond the pipe-embracing portion, and braces attached to said loop to brace the reflector-support when it is attached to a pipe and to serve as steadying means when the support is attached to a lamp; substantially as described.

6. A reflector support comprising a strip of metal bent to form an open lamp-embracing loop, a closed clamp-sustaining portion, a pipe-embracing portion beyond the closed portion and a spring loop beyond the pipe-embracing portion, in combination with a clamp on said closed portion and a reflector-supporting arm attached to one of the ends of the open lamp-embracing loop; substantially as described.

7. A reflector support comprising a strip of metal bent to form an open lamp-embracing loop, a closed clamp-sustaining portion, a pipe-embracing portion beyond the closed portion and a spring loop beyond the pipe-embracing portion, in combination with a clamp on said closed portion and a pair of reflector supporting arms attached to the ends of the open lamp-embracing loop; substantially as described.

8. A reflector support comprising a lamp-embracing portion, a pipe-embracing portion, and a reflector-supporting arm, the lamp-embracing portion being between the pipe-embracing portion and the reflector-supporting arm, and bracing means at the end opposite the reflector-supporting arm to brace the reflector-support when it is attached to a pipe and to serve as steadying means when the support is attached to a lamp; substantially as described.

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

MARTIN J. KANE.

Witnesses:

WILLIAM H. DAVIS,
MINERVA LOBEL.