

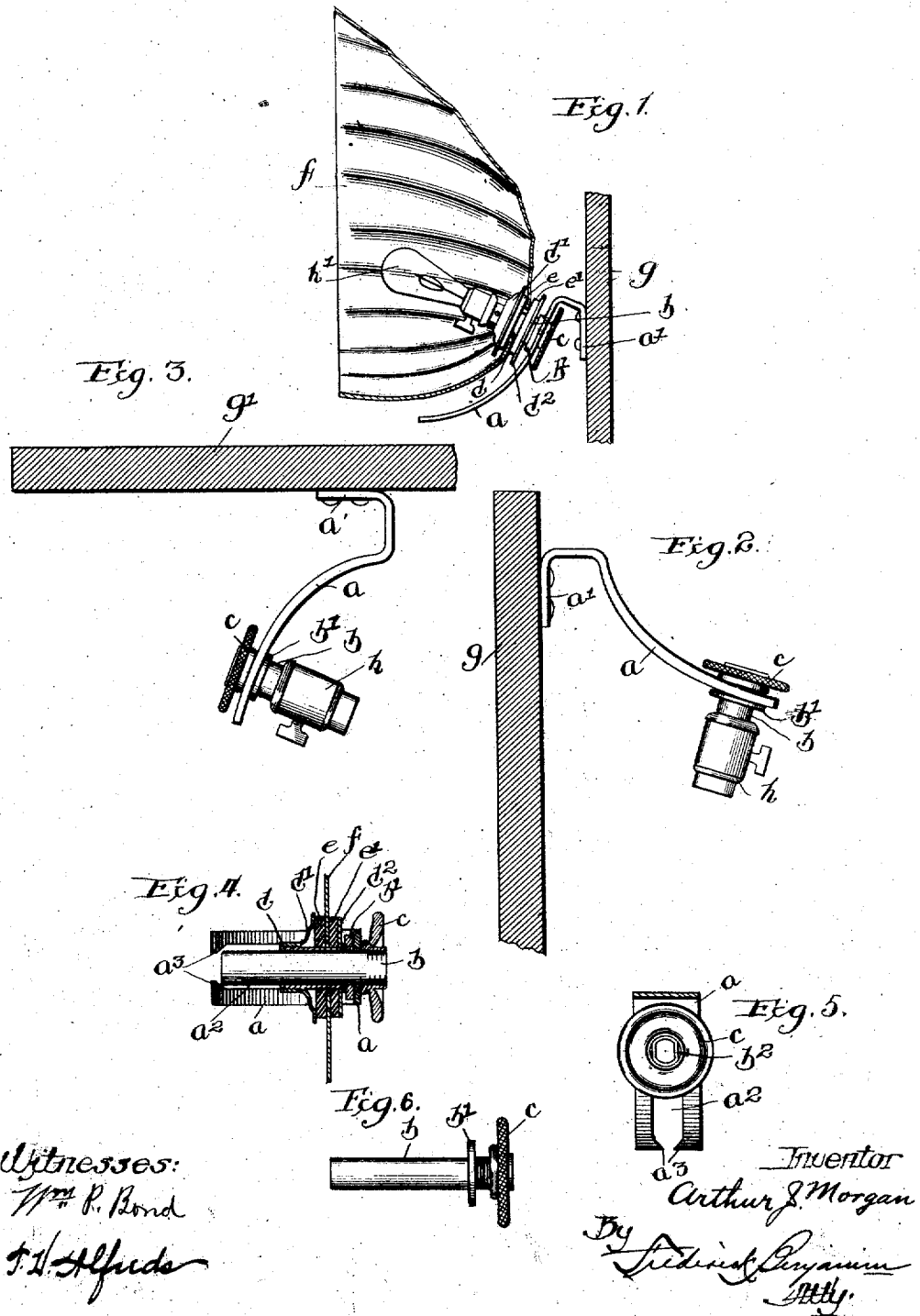
A. J. MORGAN.

LAMP AND REFLECTOR HOLDER.

APPLICATION FILED JUNE 22, 1906. RENEWED AUG. 24, 1910.

988,487.

Patented Apr. 4, 1911.



UNITED STATES PATENT OFFICE.

ARTHUR J. MORGAN, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE NATIONAL X-RAY REFLECTOR CO., OF CHICAGO, ILLINOIS.

LAMP AND REFLECTOR HOLDER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ARTHUR J. MORGAN, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Lamp and Reflector Holders, of which the following is a specification.

This invention relates to improvements in brackets for supporting electric lamps and reflectors, and the especial object of my improvements, is to produce a bracket that can be cheaply manufactured, easily applied and capable of a wide range of adjustments, and one that will afford a firm support for both lamp and reflector.

Other objects of general utility are conserved by my invention as will be apparent.

In the accompanying drawing which forms a part of this application:—Figure 1 is a view partly in section and partly in side elevation showing my invention as applied to an electric lamp and reflector: Figs. 2 and 3 show different adjustments of the bracket: Fig. 4 is a section through the bracket and attachments: Fig. 5 is a plan view of the bracket: Fig. 6 is a plan view of the locking device.

Referring to the details of the drawing, *a* represents the bracket, and same consists of a piece of flat metal bent to the arc of a circle for a portion of its length, and having one end bent to form an attaching foot *a*¹ through which screw holes are formed. The curved portion is provided with a longitudinal slot *a*² and the outer ends have inwardly extending lugs *a*³ which partially close the slot.

Mounted in the slot *a*² is an attachment for securing lamp-sockets (as *h*) to the bracket and for locking the parts on a reflector (as *f*). This attachment consists of a tubular bolt *b* which is provided with an annular flange *b*¹ and is externally threaded between the flange and end to receive a nut *c*. The threaded portion of the bolt is flattened on opposite sides as at *b*² to provide faces adapted to slide on the edges of the

slotted portion of the bracket and to prevent the bolt from turning on its axis.

Slidably mounted on the bolt is a sleeve *d* one end of which is externally threaded and carries a cup-shaped washer *d*¹, and the other end has a metal collar *d*² fixed thereon. Between the collar and the washer are arranged two rubber gaskets *e*, *e*¹, between which the reflector *f* is clamped.

h, *h*¹, respectively represent incandescent lamp and socket which are of the usual types and may be secured to the bolt in any convenient manner. The attachment is arranged on the bracket by inserting the squared portion of the bolt in the slot *a*². The sleeve *d* is then placed on the bolt, the washer or gasket *e*¹ is pushed along the sleeve until it strikes the collar *d*²; the bolt is then inserted through a suitable hole provided therefor in the reflector *f* if it be desired to use the device in connection with a reflector, and the gasket *e* and washer *d*¹ are then applied the latter being screwed up until the reflector is firmly clamped between the two gaskets. The socket *h* when secured on the bolt, prevents endwise movement of the sleeve in its direction, thus holding all the parts securely in their assembled relation.

g, *g*¹, represent respectively any vertical and horizontal support to which the bracket is secured. In Figs. 1 and 2, the bracket is shown secured to a vertical support, but with the lamp socket extending from opposite sides, the reverse arrangement giving greater range of adjustability to the device, thus providing for throwing the light down or up, and at various angles as will be readily apparent.

Having thus described my invention, what I claim is:—

1. An electric lamp and reflector supporting device consisting of a bracket having a slotted curved portion, a flanged tubular bolt slidably adjustable in said slotted bracket and flattened to prevent rotation, a sleeve arranged on said bolt, a washer adjustably mounted on said sleeve, a collar on

one end of said sleeve and a nut adjustably mounted on said bolt.

2. An electric lamp and reflector supporting device consisting of a bracket having a slotted curved portion, a flanged tubular bolt slidably adjustable in said slotted bracket, a sleeve arranged on said bolt and threaded at one end and having a collar at the other end, a washer engaging the thread-

ed portion of said sleeves, gaskets arranged 10 on said bolt between said washer and collar and a nut adjustably mounted on said bolt.

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

ARTHUR J. MORGAN.

Witnesses:

F. BENJAMIN,
WM. B. MOORE.