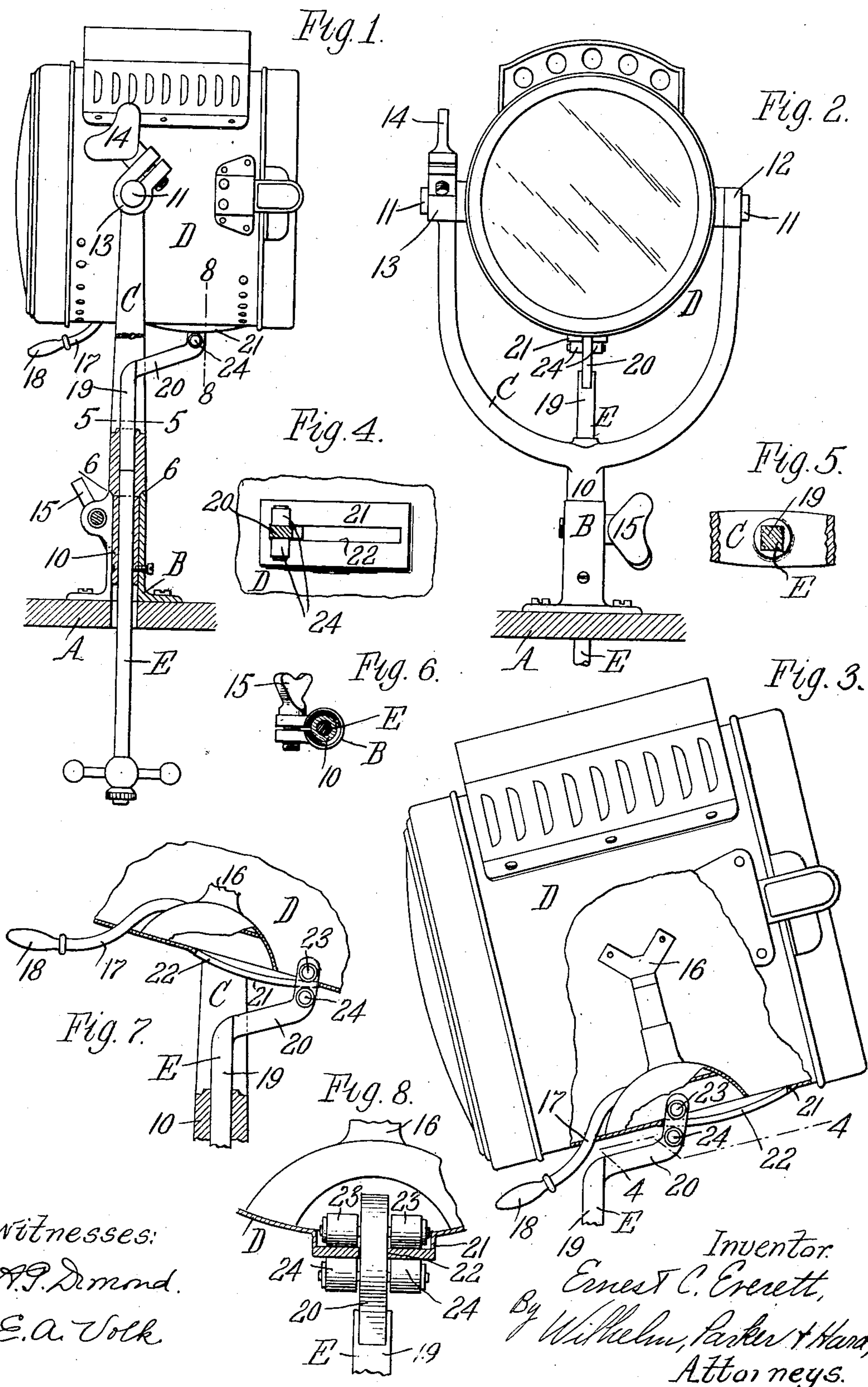


E. C. EVERETT.  
 SEARCH LIGHT MOUNTING.  
 APPLICATION FILED JUNE 29, 1908.

930,059.

Patented Aug. 3, 1909.



Witnesses:  
 A. J. Diamond.  
 E. A. Volk.

Inventor.  
 Ernest C. Everett,  
 By Wilhelm, Parker & Hard,  
 Attorneys.



# UNITED STATES PATENT OFFICE.

ERNEST C. EVERETT, OF NEW YORK, N. Y., ASSIGNOR TO R. E. DIETZ COMPANY,  
OF NEW YORK, N. Y.

## SEARCH-LIGHT MOUNTING.

No. 930,059.

Specification of Letters Patent.

Patented Aug. 3, 1909.

Application filed June 29, 1908. Serial No. 440,957.

*To all whom it may concern:*

Be it known that I, ERNEST C. EVERETT, a citizen of the United States, residing at New York, in the county of New York and State

of New York, have invented a new and useful Improvement in Search-Light Mountings, of which the following is a specification.

This invention relates to that class of mountings for searchlights which comprise a forked bracket having bearings at its upper end in which the searchlight is supported by horizontal pivots, so that the axis of the searchlight can be moved or adjusted in a vertical plane, and in which the bracket can be turned about a vertical axis, so that the axis of the searchlight can also be adjusted or revolved in a horizontal plane. Searchlights of this kind are usually mounted upon the roof or deck of the pilot house or cabin of the boat and are provided with an upright adjusting rod which extends from the bracket downwardly through the roof or deck to a point in convenient reach of the pilot or other operator. This rod is usually connected at its upper end by a lever and link mechanism with the searchlight and the latter is adjusted or moved in a vertical plane by moving the rod up or down and is adjusted or revolved in a horizontal plane by turning the rod.

The object of this invention is to simplify the mechanism by which the adjusting rod is connected with the searchlight.

In the accompanying drawings: Figure 1 is a side elevation, partly in section, of a searchlight provided with this improved actuating mechanism. Fig. 2 is a front elevation thereof. Fig. 3 is a side elevation, partly in section, of the searchlight, on an enlarged scale. Fig. 4 is a fragmentary bottom plan view, partly in a section taken in line 4—4, Fig. 3. Fig. 5 is a horizontal section in line 5—5, Fig. 1, on an enlarged scale. Fig. 6 is a horizontal section in line 6—6, Fig. 1. Fig. 7 is a fragmentary longitudinal section of the lower portion of the searchlight. Fig. 8 is a transverse vertical section in line 8—8, Fig. 1, on an enlarged scale.

Like reference characters refer to like parts in the several figures.

A represents the roof or deck of the cabin or pilot house of a boat or launch. B the upright standard or socket which is secured upon the same and which receives the cylin-

drical stem 10 of the forked bracket C in which the case D of the searchlight or lamp is journaled by horizontal pivots 11. The bracket is provided for this purpose with bearings 12 13, of which the bearing 13 is split and provided with a tension screw 14 by which the frictional resistance can be regulated or the lamp case can be rigidly clamped in position. The standard or socket B also is split and provided with a tension screw 15 for regulating the friction or clamping the bracket in position.

16 represents the gas burner in the lamp case and 17 the gas pipe provided with the usual nipple 18.

E represents the upright adjusting rod which is arranged within the stem 10 of the bracket and extends above and below the stem, the lower end of the rod being provided with a handle. The upper portion 19 of this rod is square or angular and the bore of the stem is of similar form so that the rod can be moved up or down in the stem for swinging or tilting the lamp case up or down, while a rotary movement of the rod causes the stem to turn with the rod in the socket B and to revolve the bracket and the lamp case.

20 represents a rigid actuating arm which extends from the upper end of the rod to the under side of the lamp case in the longitudinal direction of the latter and preferably forwardly, as shown, and 21 represents a longitudinal guide which is arranged on the under side of the lamp case and with which the free end of the arm has a sliding connection, so that the vertical movement of the rod causes the lamp case to be swung vertically on its pivots. The guide is provided with a longitudinal slot 22 into which the arm 20 extends and in which it can move back and forth. The arm engages against the upper and lower sides of the guide, preferably by means of upper rollers 23 and lower rollers 24 mounted on studs projecting from opposite sides of the arm. The guide is preferably curved lengthwise and presents its convex side downwardly, whereby the resistance of the lamp case to movement by the adjusting rod is reduced.

The adjusting arm being rigidly secured to or formed on the adjusting rod and arranged on the under side of the lamp case, as described, the arm engages with the lamp case in a very direct manner, whereby the adjust-



ing mechanism is rendered very simple and compact and also easy of manipulation.

I claim as my invention:

1. The combination with a supporting  
5 bracket and a lamp case supported therein  
by horizontal pivots, of an upright adjusting  
rod movable up and down in said bracket  
and provided with an actuating arm rigidly  
connected with said rod, and a connection  
10 between said arm and case which is slidable  
lengthwise of said case, substantially as set  
forth.

2. The combination with a supporting  
bracket, a support in which said bracket is  
15 rotatable horizontally, and a lamp case sup-  
ported in said bracket by horizontal pivots,  
of an upright adjusting rod movable up and  
down in said bracket, means for turning said  
bracket in its support by said rod, and an  
20 actuating member rigidly connected with  
said rod and having a connection with said  
case which is arranged forwardly of said  
pivots and is slidable lengthwise of said case,  
substantially as set forth.

25 3. The combination with a supporting  
bracket, of a lamp case supported thereon by  
horizontal pivots and provided on its under  
side with a longitudinal slotted guide, and an  
upright adjusting rod movable up and down  
30 on said bracket and provided with an actu-  
ating arm which extends into said slot and

engages said guide, on which said arm is  
movable lengthwise thereof, substantially as  
set forth.

4. The combination with a supporting 35  
bracket, of a lamp case supported thereon by  
horizontal pivots and provided on its under  
side with a longitudinal guide, and an up-  
right adjusting rod movable up and down on  
said bracket and provided with a rigid actu- 40  
ating arm which is provided with upper and  
lower rollers engaging against the upper and  
lower sides of said guide, substantially as set  
forth.

5. The combination with a supporting 45  
bracket, of a lamp case supported thereon by  
horizontal pivots and provided on its under  
side with a longitudinal slotted guide, and  
an upright adjusting rod movable up and  
down on said bracket and provided with a 50  
rigid actuating arm which extends into said  
slot and is provided on opposite sides with  
upper and lower rollers engaging against the  
upper and lower sides of said guide, substan-  
tially as set forth. 55

Witness my hand in the presence of two  
subscribing witnesses.

ERNEST C. EVERETT.

Witnesses:

JAMES SORIANO,  
HOWARD L. FLETCHER.