## UNITED STATES PATENT OFFICE

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## FLOODLIGHT

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This invention pertains to flood lights of tilted or inclined position. The trunnions

the design and arrangement of the apparatus that it may be readily movable by the opera-5 as to greatly enhance the convenience of op- tor and be easily retained in set position by 55 eration and efficiency thereof.

To these and other ends the invention com- In the lower portion of lens housing 22 are 10 the drawings, which by way of illustration the purpose of focusing and for the addi- 60 ferred form of the invention.

In the drawings,

15 ly broken away to show devices in the interior make other adjustment. The center of the 65 thereof.

the left of Fig. 1).

20 of Fig. 1.

of Fig. 1.

Fig. 1.

Fig. 1.

Fig. 7 is a detail view on the line 7—7 of Fig. 1.

Fig. 8 is a detail view on the line 8—8 of 30 Fig. 1.

Fig. 9 is a detail view on the line 9—9 of Fig. 1

Fig. 10 is a detail view on the line 10—10

of Fig. 8. The supporting and enclosing structure of the invention comprises, in general, a lamp housing 20, to the front of which is attached 40 24. The whole machine is mounted on a tially fixed position regardless of the posi- 90 standard 26 (Figs. 1 and 4) having a cross member 28 partially mounted upon the up-45 sides of casing 22 are trunnions passing vided with guideways 66 to accommodate five 95

the type used largely in theatres. are located on a horizontal line through the The object of the invention is to so improve center of gravity of the structure in order

the clamping screws.

prises the novel features and combinations of two parallel horizontal longitudinal rods 36 elements hereinafter described and shown in upon which lens 38 is slidably mounted for show what we now consider to be the pre- tional purpose of bringing the lens to an accessible position at the front of its housing where it may easily be reached through Fig. 1 is a side view of the apparatus, part-screen housing 24 to replace a broken lens or lens travels along the optical axis of the in-Fig. 2 is a rear view of the apparatus (from strument. To support lens 38 on rods 36 a cross-head 40 is provided, upon which the Fig. 3 is a cross-section on the line 3-3 lens structure is mounted. In order to move the lens back and forth on rods 36, we connect 70 Fig. 4 is a cross-section on the line 4-4 cross-head 40 by means of a downwardly projecting lug 42 to the upper strand of a chain Fig. 5 is a cross-section on the line 5—5 of 44 which passes over front and rear sprockets 46 and 48 respectively. Sprocket 46 rotates Fig. 6 is a detail view on the line 6—6 of on a short shaft 50 whereas sprocket 48 is fast 75 to a shaft 52 (Figs. 1 and 2) extending from side to side of the machine and supported for rotation in brackets 54. Each end of shaft 52 is provided with a crank handle 53 which has a pointer 58 passing over a num- 80 bered dial 60. When handle 56 is turned by the operator the lens is moved along reds 40, its exact position being always known to the operator by means of the pointer and dial.

Attached to the lower strand of chain 44 85 and slidable on rods 62 is a counterweight 64 which always moves in a direction opposite the lens housing 22. On the front of the to that of the lens, thereby preserving the lens housing is mounted the screen housing center of gravity of the machine in substantion of the lever.

Referring now to the screen mechanism at per end thereof. Pedestals 30 stand on the the front end of the machine, it will be noted ends of member 28. Projecting from the that the interior of screen housing 24 is prothrough the upper ends of pedestals 30 to color screens 68. The rearmost screen is provide a pivotal support for the entire struc- shown elevated to operative position aligned ture. Hand screws 32 cooperating with arc- with lens 38, while the other four screens are uate slotted arms 34 integral with standards shown in normal inoperative position at the 30, serve to hold the structure in any desired bottom of housing 24. Each screen is simply 100