## UNITED STATES PATENT OFFICE

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## FLOODLIGHT

Original application filed May 24, 1928, Serial No. 280,146. Divided and this application filed September 18, 1928. Serial No. 306,747.

This invention pertains to flood lights of tional purpose of bringing the lens to an acfiled May 24, 1928.

ience and efficiency thereof.

10 application is to disclose and claim the im- lens back and forth on rods 36, we connect 60 invention.

show what is now considered to be the preferred embodiment of the invention.

Fig. 1 is a side view of the apparatus, partly <sup>20</sup> broken away to show devices in the interior thereof.

Fig. 2 is a rear view of the apparatus (from the left of Fig. 1).

Fig. 3 is a cross section on line 3—3 of of the pointer and dial.

25 Fig. 1 The whole machine is mounted on a standard sition of the lever. from the sides of casing 22 are trunnions passthe clamping screws.

In the lower portion of lens housing 22 are upon which lens 38 is slidably mounted for ative position at the bottom of housing 24.

the type used largely in theatres, and is a di- cessible position at the front of its housing vision of our application Serial No. 280,146 where it may easily be reached through screen housing 24 to replace a broken lens or make The object of that invention is to so im- other adjustment. The center of the lens 55 prove the design and arrangement of the travels along the optical axis of the instruapparatus as to greatly enhance the conven-ment. To support lens 38 on rods 36 a crosshead 40 is provided, upon which the lens The particular object of this divisional structure is mounted. In order to move the proved color screen devices of the parent cross-head 40 by means of a downwardly projecting lug 42 to the upper strand of a chain Further and other objects and advantages 44 which passes over front and rear sprockwill be hereinafter set forth in the accom- ets 46 and 48 respectively. Sprocket 46 ropanying specification and claim, and shown tates on a short shaft 50 whereas sprocket 48 65 in the drawings, which by way of illustration is fast to a shaft 52 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 56 which has a pointer 58 passing over a numbered dial 60. 70 When handle 56 is turned by the operator the lens is moved along rods 36, its exact position being always known to the operator by means

Attached to the lower strand of chain 44.75 The supporting and enclosing structure of and slidable on rods 62 is a counterweight the invention comprises, in general, a lamp 64 which always moves in a direction oppohousing 20, to the front of which is attached site to that of the lens, thereby preserving the lens housing 22. On the front of the lens the center of gravity of the machine in subhousing is mounted the screen housing 24. stantially fixed position regardless of the po- 80

26 having a cross member 28 pivotally mount- Referring now to the screen mechanism at ed upon the upper end thereof. Pedestals 30 the front end of the machine, it will be noted stand on the ends of member 28. Projecting that the interior of screen housing 24 is provided with guideways 66 to accommodate five 85 ing through 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 arcu- with lens 38, while the other four screens ate slotted arms 34 integral with standards are shown in normal inoperative position at 30, serve to hold the structure in any desired the bottom of housing 24. Each screen is 90 tilted or inclined position. The trunnions simply a rectangular metal framework comare located on a horizontal line through the prising bottom member 70 and side members center of gravity of the structure in order 72. Across the framework is placed a color that it may be readily movable by the opera-medium 74 of gelatin or other material. tor and be easily retained in set position by Wires 76 help to hold the medium flat. To 95 insert the screens in the screen housing, hinged cover 78 is raised and the screens are two parallel horizontal longitudinal rods 36 dropped between guides 72 to their inoper-

the purpose of focusing and for the addi- Extending horizontally under each screen 100