UNITED STATES PATENT OFFICE

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This invention pertains to footlights for dates the electric wiring to the sockets 24. theatres. Such lights are usually arranged Lamps 34 are screwed into sockets 24 and 5 an individual reflector. The principal object bolts 36 to the upper edge of plate 14. It fre- 55 tors.

The lamps are supported in sockets of the top plate. mounted in rows at the rear of a long box- Each lamp 34 is surrounded by a reflec- 60 of the trough with devices which seriously design, which engages a recess 48 in the re- 65 through the trough.

²⁰ trough by devices which are simple, accessible, easily operable, cheap to manufacture, and which do not interfere with circulation of air lengthwise of the trough.

Further and other objects and advantages ²⁵ will be hereinafter set forth in the accompanying specification and claims, and shown in the drawings which by way of illustration show what is now considered to be the preferred embodiment of the invention.

Fig. 1 is a cross-section on line 1—1 of Fig. 2.

Fig. 2 is a view, from the stage, of a portion of a bank of lights showing their staggered arrangement.

The level of the stage floor is at 10. The footlight structure is set into an inclined outer trough 12 set below the level of the floor. The removing ring 54. footlight trough proper, comprises a front wall 14 which supports the lenses and reflectors, a rear wall 16, an upper cover 18, and a lower wall 20 which is preferably in one piece with front wall 14.

Extending parallel to wall 16 is an offset partition 22 to which are fast the lamp sockets ⁴⁵ 24. Partition 22 has upper and lower rearwardly extending portions 26 and 28. Extension 26 is secured to the upper edge of plate

in banks across the front of the stage. In the occupy the space between partition 22 and arrangement herein illustrated each lamp has front plate 14. Top plate 18 is fastened by of the invention is to provide improved de- quently happens that top plate 18 is stepped vices for supporting those individual reflec- upon and therefore plate 14 is called upon to serve as a brace or support to prevent collapse

like metallic trough. It has been customary tor 40, and in the open end of each reflector to support the individual reflectors at their is supported a lens or roundel 42. Each rear ends, thereby rendering the reflector roundel is held in place against a shoulder supports difficult of access and filling the rear 44, by a spring wire ring 46 of well known interfered with the circulation of cooling air flector. Recess 48 and shoulder 44 are formed in the metal of the reflector by a spinning op-In the present design the reflectors are sup- eration. Each retaining ring 46 is provided ported entirely from the front plate of the with a pair of finger pieces 50 for use of the operator in collapsing the ring to remove it 70 from recess 48 when it is desired to remove the roundel for any purpose, as for instance to change a lamp.

Slightly toward the rear of shoulder 44 the reflector is provided with a second shoul. 35 der 52 of somewhat smaller outside diameter than shoulder 44. Shoulder 52 is of small enough diameter to pass through an opening in plate 14 whereas shoulder 44 will not pass through the opening. The reflector is as- 80 sembled in plate 14 by passing the reflector through the opening as far as shoulder 44 will permit, and then snapping a spring ring 54 between shoulder 52 and plate 14. This holds the reflector in operative position yet 85 may readily be removed if required by simply

It is to be understood that the invention is not limited to the construction herein specifically illustrated but can be embodied in other 90 forms without departure from its spirit as defined by the following claims.

1 claim—

1. In apparatus of the class described, in combination, a plate having an opening, a 95 reflector, two circumferential shoulders on said reflector, one of said shoulders being of 16 by bolt 30, the lower edge of plate 16 be- less diameter than the opening in said plate, ing secured to plate 20 by bolt 32. The space the other of said shoulders being of greater between plate 16 and partition 22 accommo- diameter than the opening in said plate; and 100