O. M. SHECK.

ADJUSTABLE LAMP CARRIAGE.

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1,257,129.

Patented Feb. 19, 1918.

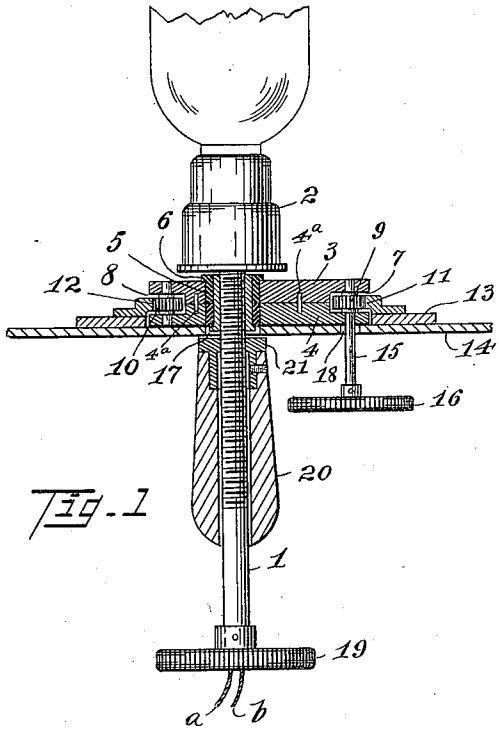

Fig. 1

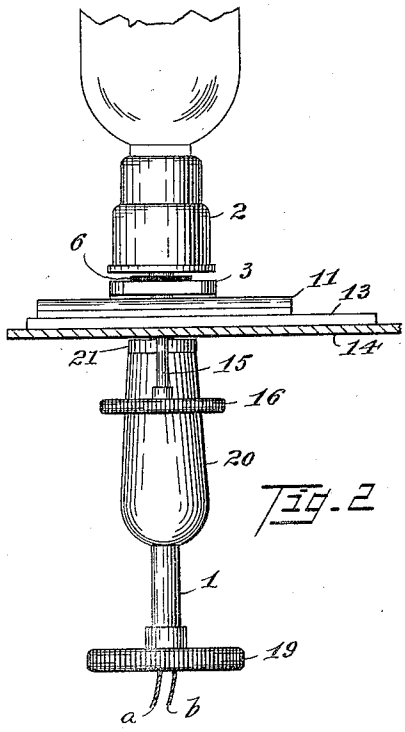

Fig. 2

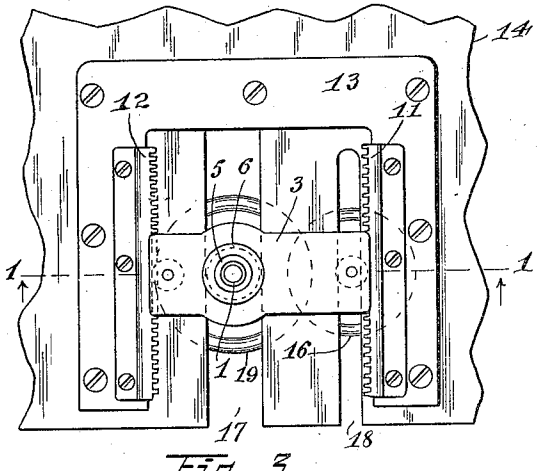

Fig. 3

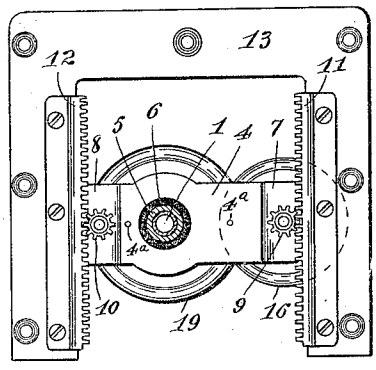

Fig. 4

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UNITED STATES PATENT OFFICE.

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ADJUSTABLE LAMP-CARRIAGE.

1,257,129. Specification of Letters Patent. Patented Feb. 19, 1918.

Application filed April 24, 1917. Serial No. 164,313.

To all whom it may concern:

Be it known that I, OSCAR M. SHECK, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Adjustable Lamp-Carriages, of which the following is a specification.

This invention relates to carriages or devices for supporting and manipulating electric lamps, and it has particular reference to a device of this character as applied to what is commonly known as a spot light that is employed in stage lighting. In practice the spot light apparatus is located in a desirable position off the stage, usually in the front of the balcony of the auditorium, and the purpose of the apparatus is to project the light rays in a field confined to a spot the area and location of which relative to the otherwise darkened stage is governed by the adjustments of the apparatus. By the use of the spot light persons or other features may be given prominence by the surroundings being more or less obscure.

The lamp houses in general use for spot lighting have an oscillating and tilting movement already provided for, and the present improvement relates to certain adjustments of the lamp carriage relative to the lamp house and lens, therefore only a portion of the lamp house to which the improved device is connected, is shown.

The object of the invention is to provide simple and economical means for easily and quickly focusing and otherwise adjusting the lamp and its supporting member, or carriage to meet all requirements not provided for by the tilting or general movement of the lamp house itself, and with this object in view the invention consists in the construction, arrangement and combination of the parts hereinafter described and pointed out definitely in the claims, reference being had to the accompanying drawings which form a part of the specification and in which similar characters of reference are employed to designate similar parts.

In the drawings Figure 1 is a section substantially on line 1—1 of Fig. 3, with the lamp socket also shown in elevation.

Fig. 2 is a side elevation.

Fig. 3 is a plan view with the lamp socket removed, and Fig. 4 is a plan view with the upper part of carriage block removed and certain other parts in cross-section.

In the embodiment of the present invention as illustrated, a tubular vertical member 1 having the lamp socket 2 attached to its upper terminal provides a suitable conduit for the electric conductors *a* and *b* and also provides the means for vertical adjustment, when operated in conjunction with other elements as hereinafter set forth.

A horizontally movable carriage block, which for convenience of assembling is preferably made in two fac-simile body parts 3 and 4 connected by dowels 4^a, is provided with a vertical opening which accommodates an internally threaded sleeve 5 adapted to receive the thread of member 1 and surrounded by an insulating sleeve 6. Longitudinal recesses 7 and 8 are provided in the block member. These recesses are parallel and in the same horizontal plane. Pinions 9 and 10 are mounted in the recesses 7 and 8, respectively. These pinions are facsimiles, that is they are of corresponding pitch and number of teeth, and are adapted to mesh with racks 11 and 12.

A base member 13 formed substantially as shown is adapted to be attached to the floor 14, or tilting member of the lamp house, and to this base member are attached the racks 11 and 12, the toothed faces of said racks being parallel. The pinion 9 is provided with an extended shaft 15 having an actuating member or hand wheel 16 attached thereto, thus making said pinion 9 the master operating gear in the horizontal adjustment, while the pinion 10 is an idler, the function of which is to maintain the alinement of the carriage block. Clearance slots 17 and 18 are provided in the member 14 to accommodate the members 1 and 15, respectively.

A hand wheel or actuating member 19 is attached to the tubular member 1 whereby the lamp socket 2 can be vertically adjusted through the threaded connection of the member 1 and sleeve 5. A handle 20 provided with an internally threaded head 21 is mounted on the member 1 beneath the member 14 or exterior of the lamp house, the thread of member 1 being operative in the thread of the head 21. In the vertical adjustment operation, the handle 20 is manipulated downward through its threaded

connection with the member 1, the lamp is then adjusted to the desired vertical position by said member 1 operating in the carriage sleeve 5 and being actuated by the member 19. After the lamp has been thus adjusted to the desired position vertically, and the desired horizontal adjustment has been made through the medium of the racks and pinions, the handle 20 is screwed upward on member 1 until the member 21 bears on the bottom 14, thereby retaining the lamp and carriage as adjusted.

While the embodiment of the invention as shown in the drawings and as above described, provides for a base member 13, it will readily be seen that said member may be eliminated and the racks 11 and 12 attached directly to the member 14, and that there may be other modifications in the detailed construction without departing from the nature of the invention or the scope of the claims.

What I claim and desire to secure by Letters Patent is—

1. A lamp carriage for electric lamps, comprising a supporting block on which the lamp is mounted, gears mounted in said block, stationary racks with which said gears mesh, and means for operating said gears.

2. A lamp carriage for electric lamps, comprising a supporting block on which the lamp is mounted, gears mounted so as to be horizontally operative in said block, stationary racks with which said gears mesh, and means for operating said gears.

3. A lamp carriage for electric lamps, comprising a supporting block on which the lamp is mounted, companion horizontally operative gears mounted in said block, stationary racks with which said gears mesh, one of said gears provided with a hand actuating member and the other operating as an idler.

4. A lamp carriage for electric lamps, comprising a lamp supporting block, an insulating bushing in said supporting block, an internally threaded vertical sleeve in said bushing, a tubular adjusting member threaded through said sleeve, and a lamp socket attached to the upper end of said tubular member.

5. A lamp carriage for electric lamps, comprising a lamp supporting block, an insulating bushing in said supporting block, an internally threaded vertical sleeve in said bushing, a tubular adjusting member having a lamp socket attached thereto threaded through said sleeve whereby said sleeve can be vertically adjusted, means for horizontally adjusting said lamp supporting block in the lamp house, and means on the tubular member for retaining the block in horizontal adjustment.

In testimony whereof I affix my signature.

OSCAR M. SHECK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."