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P. FORG.

ADJUSTABLE SUPPORT FOR INCANDESCENT LAMPS.

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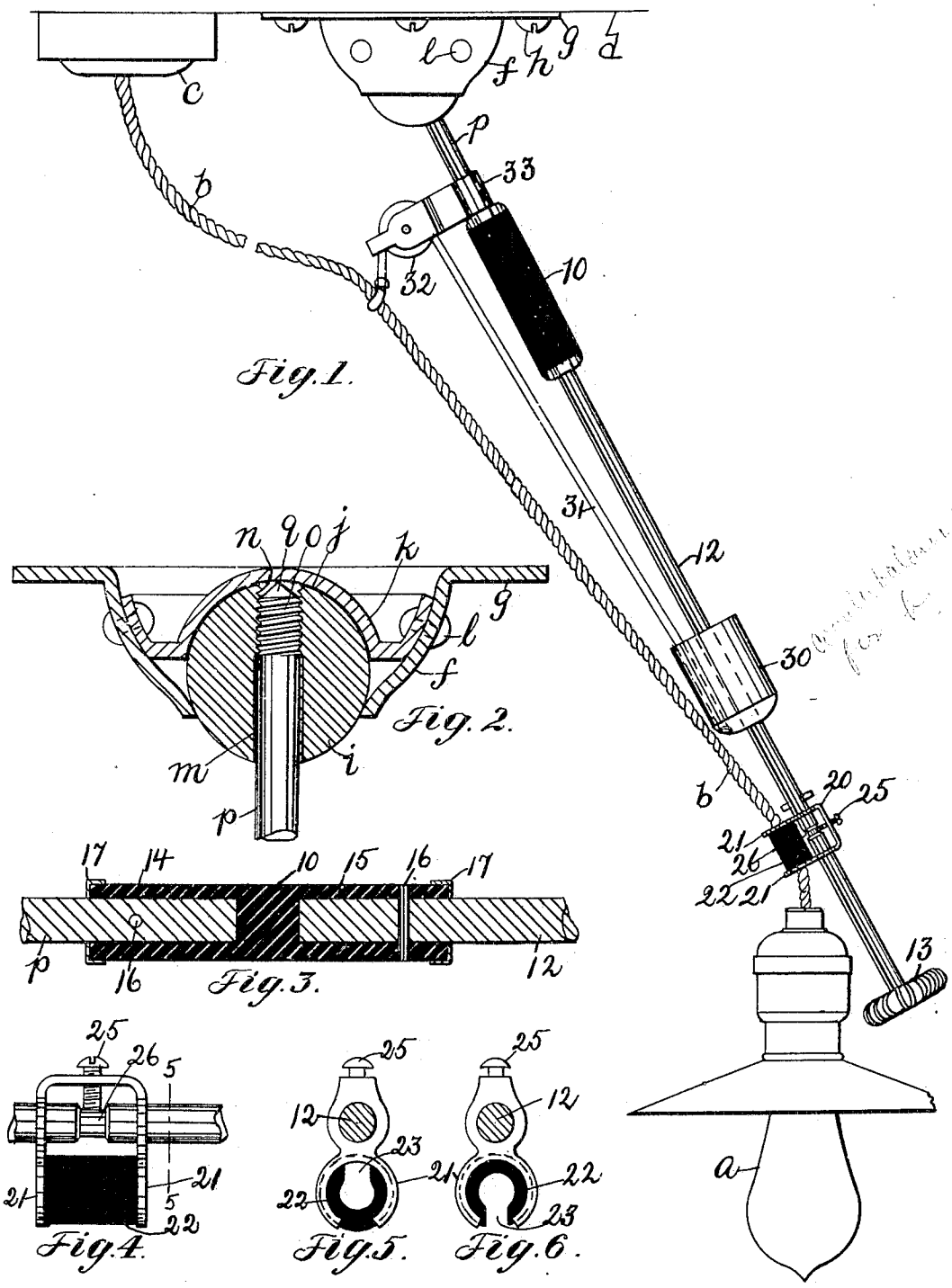


Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5. Fig. 6.

Witnesses.

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UNITED STATES PATENT OFFICE.

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ADJUSTABLE SUPPORT FOR INCANDESCENT LAMPS.

SPECIFICATION forming part of Letters Patent No. 793,030, dated June 20, 1905.

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To all whom it may concern:

Be it known that I, PETER FORG, a citizen of the United States, residing in Somerville, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Adjustable Supports for Incandescent Lamps, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention relates to an adjustable support especially designed and adapted for use in connection with incandescent electric lamps, and has for its object to provide a simple and efficient support for the purpose specified.

The invention is herein shown as embodied in a support especially adapted to be secured to the ceiling of a room, and particularly to the ceiling or an overhead structure in a machine or other shop, and the said support is capable of being moved in a circular path to properly position the electric lamp with relation to the machine and of being secured in the position desired. Provision is also made for raising and lowering the incandescent lamp with relation to its support, as will be described. These and other features of this invention will be pointed out in the claims at the end of this specification.

Figure 1 is an elevation of an incandescent lamp hung from a support embodying this invention; Fig. 2, a detail in section and on an enlarged scale of the upper portion of the support shown in Fig. 1; Fig. 3, a sectional detail, on an enlarged scale, to be referred to; Fig. 4, a detail in elevation and on an enlarged scale, to be referred to; Fig. 5, a cross-section on the line 5 5, Fig. 4; and Fig. 6, a similar section with the sleeve of insulation turned into a position substantially opposite to that shown in Fig. 5.

Referring to the drawings, *a* represents an incandescent electric lamp of any usual or suitable construction, which has its conducting-cord *b*, connected with the rosette *c*, attached to the ceiling of a room or other overhead structure, such as a beam, and which is represented by the line *d*. To facilitate description, I shall hereinafter refer to the overhead structure *d* as the "ceiling" of the room in which the lamp *a* is located.

The ceiling *d* has attached to it a support for the lamp *a*, and the said support, in accordance with this invention, comprises a stationary member and a movable member. The stationary member may be made as herein shown and consists of a concaved shell *f*, provided with a flange *g*, having suitable holes for the passage of screws *h*, by which the shell may be secured to the ceiling. The shell *f* is provided with a circular opening, through which projects a portion of a ball or sphere *i* of a diameter larger than the diameter of the opening in the shell. The ball *i* forms part of the movable member of the support and fits a socket or circular recess *j* in a disk *k*, located within the shell *f* and secured thereto by the rivets *l* or in any other suitable manner. The ball *i* is provided with a central hole or opening *m* extended through it and provided for a portion of its length with screw-threads *n*, which are adapted to be engaged by screw-threads *o* on a rod *p*, provided beyond the screw-threads with a conical point or end *q*. (See Fig. 2.)

The hole or opening *m* in the ball may be of the same diameter throughout its length; but I prefer to make the unthreaded portion of the hole of slightly larger diameter to facilitate the removal of the rod *p* from the ball when so desired. The rod *p* has connected to it by a coupling 10, of insulation, a second and longer rod 12, which may be provided at its lower end with a handle 13. The coupling 10 may be made as herein shown and consists of a piece of wood or other suitable insulating material provided at its opposite ends with sockets 14 15, (see Fig. 3,) into which the ends of the rods *p* 12 are inserted and wherein they are secured by pins 16 or in any other suitable manner. The sockets 14 15 are separated from each other. The insulating-coupling 10 may be provided at its opposite ends with suitable caps 17.

The rod 12 is preferably provided, as herein shown, with a device for supporting the cord *b* and which is revoluble on the said rod. The device referred to may be made as herein

shown and consists of a yoke or forked-shaped piece 20, (see Figs. 4, 5, and 6,) having its arms 21 provided with holes, through which the rod 12 extends, the said arms being open for the entrance of the cord *b* into a sleeve 22, of insulating material, which sleeve is revolubly mounted in the arms 21 and is provided with a longitudinally-extended slot 23, which is adapted to register with the slot in the arms 21 (see Fig. 6) when it is desired to place the cord *b* into or remove it from said sleeve and which is adapted to be carried out of line with the slot in the arms 21 (see Fig. 5) when it is desired to retain the cord *b* in said sleeve. The yoke 20 is revoluble on the rod 12, but is retained thereon against longitudinal movement by a screw 25 extended through the back piece of the yoke into an annular groove 26 in the rod 12.

As thus far described it will be seen that by turning the handle 13 in one direction the pointed end *q* of the rod *p* may be disengaged from the wall of the recess or socket *j*, thereby leaving the rod 12 free to be moved into any desired position, with the ball *i* as a center or pivot, and when the rod 12 has been moved in such position as to properly position the lamp *a* the ball *i* is then locked in the socket by turning the rod 12 so as to bring its pointed or conical end *q* into engagement with the wall of the socket *j* with sufficient force to resist movement of the ball in said socket. Provision is also made for permitting the lamp *a* to be raised and lowered to adjust it vertically with relation to the work and for automatically holding or retaining said lamp in its adjusted position. To this end the rod 12 has mounted on it a counterbalancing-weight 30 for the lamp, which weight is movable longitudinally on the said rod and is connected by a cord 31 or other flexible means with the cord *b*, the cord 31 passing over a pulley 32, mounted in a yoke or forked piece 33, fitted loosely upon the rod *p* above the insulating-coupling 10 and resting thereon.

By reference to Fig. 1 it will be seen that when the lamp *a* is moved downward the weight 30 is moved upward on the rod 12 and that when the hand is removed from the lamp or the cord *b* the lamp will be maintained by the weight in the position to which it has been moved by the operator.

When the lamp is moved upward by the operator, the weight moves downward on the rod, and when the lamp has been elevated to the desired position the operator releases the same, and the weight automatically retains the lamp in its adjusted position.

I have herein shown one embodiment of my invention; but I do not desire to limit my invention to the particular construction shown.

I claim—

1. In an apparatus of the class described, in combination, a socketed member, a ball or spherical device movable in said socketed member and having a hole or opening extended through it and provided with screw-threads, a threaded rod movable in said screw-threaded opening and adapted to engage said socketed member to lock the ball from moving in its socket, a second rod connected with but insulated from said threaded rod, a device on said second rod for engaging the cord of an incandescent lamp, a weight movable on said second rod, a pulley supported by the threaded rod, and a flexible connection passed over said pulley and connected to said weight and cord, substantially as described.

2. In an apparatus of the class described, in combination, a socketed member, a movable member coöperating therewith and comprising a ball and a rod extended therefrom, a weight movable longitudinally on said rod, an incandescent lamp attached to said rod, a flexible conductor leading to said incandescent lamp, a flexible connection between said weight and flexible conductor, and means over which the flexible connection is passed, for the purpose specified.

3. In an apparatus of the class described, in combination, a rod, a forked device revolubly mounted on said rod and provided with an opening in its arms, and a sleeve revolubly mounted in the arms of said forked device and provided with a slot adapted to register with the opening in said arms, substantially as and for the purpose specified.

4. In an apparatus of the class described, in combination, a socketed member, a movable member coöperating therewith and comprising a ball and a rod extended therefrom, a counterbalancing device movable on said rod, a device suspended from said rod, a cord attached to said suspended device, a flexible connection between said counterbalancing device and said cord, and means over which said flexible connection is passed, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PETER FORG.

Witnesses:
JAS. H. CHURCHILL,
J. MURPHY.