Apr. 24, 1923. 1,452,950

G. W. ANDERSON

ADJUSTABLE DROPLIGHT SUPPORT

Filed July 24, 1922

FIG. 1

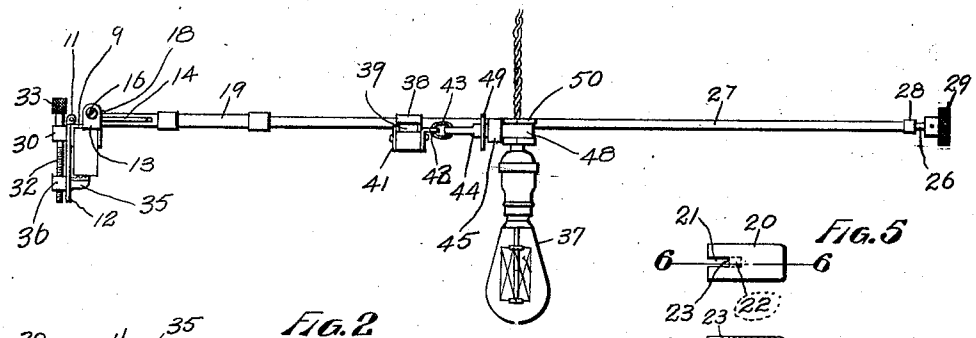


FIG. 2

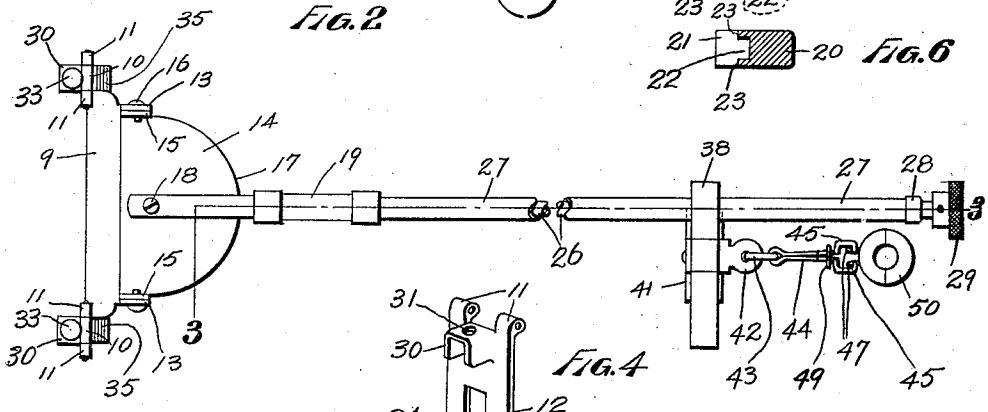


FIG. 3

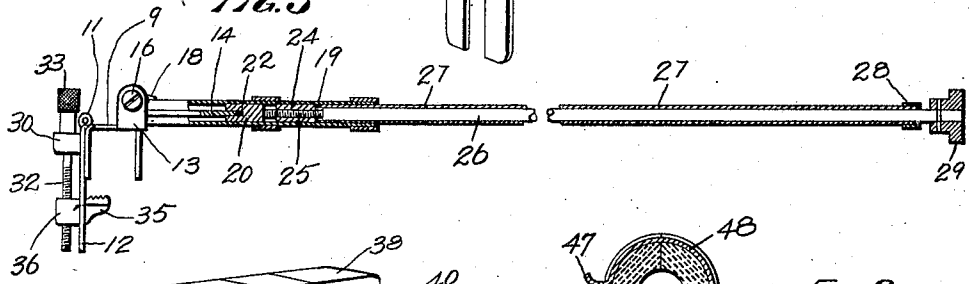


FIG. 4

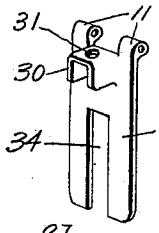


FIG. 5

FIG. 6

FIG. 7

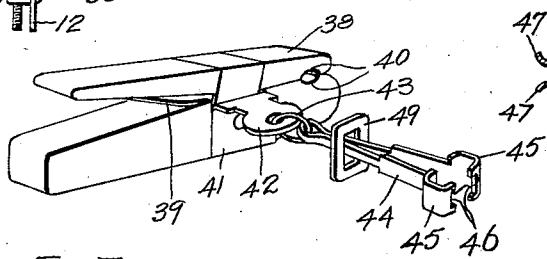
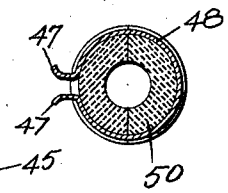


FIG. 8



INVENTOR
GEORGE W. ANDERSON
BY Edwards & Langan
ATTY.

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UNITED STATES PATENT OFFICE.

GEORGE W. ANDERSON, OF ST. LOUIS, MISSOURI.

ADJUSTABLE DROPLIGHT SUPPORT.

Application filed July 24, 1922. Serial No. 577,042.

To all whom it may concern:

Be it known that I, GEORGE W. ANDERSON, a citizen of the United States, and resident of the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Adjustable Droplight Supports, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in adjustable drop light supports, and has for its primary object a drop light support which is provided with clamps for its attachment, and with an arm swivelly made so that the light can be raised and lowered, and moved from side to side, and also adjusted forward and backward.

My device is especially designed for typesetter's use and the like, and can be readily moved where necessary and held there. Heretofore, typesetters have had trouble in adjusting their lights properly, so as to get the light where most needed, which has frequently resulted in serious errors in correcting proof.

In the drawings,

Fig. 1 is a side elevation of my device attached to a light.

Fig. 2 is a top plan view of my device with parts broken away.

Fig. 3 is a cross section taken on the line 3—3 of Fig. 2.

Fig. 4 is a perspective view of one of the clamp carrying hinges.

Fig. 5 is a side elevation of the lock.

Fig. 6 is a cross section of the same taken on the line 6—6 of Fig. 5.

Fig. 7 is a perspective view of the clamp made use of for adjusting the light to and from the operator.

Fig. 8 is a horizontal section of the cord holding member.

In the construction of my device I employ a plate 9 which is preferably U-shaped. This plate is provided with eyes 10 which register with eyes 11 formed on the clamp carrying hinge 12. The plate 9 is provided with integral ears 13 to which the plate 14 is hingedly secured. This plate has integrally formed ears 15 through which pivots 16 project. These pivots are secured within the ears 13 and allow the plate 14 to swing up and down. The forward edge of the plate 14 is curved as at 17, so as to form the arc of a true circle. Pivotally secured to the plate 14 at the point 18 is a pipe or tube 19 which has a portion split so that it can straddle the plate 14. Within the tube 19 is located a lock or dog 20. The one edge being bifurcated as at 21 so as to straddle the plate 14. This lock or dog is slidably mounted in the tube 19, and is provided with a recess 22 adjacent the slot so as to leave shoulders 23, which shoulders are adapted to press against the edge 17 and securely lock the tube 19 against swivelling movement of the plate. Within the tube 19 is secured a sleeve 24 which is screw threaded to receive the screw threaded end 25 of a rod 26. This rod is surrounded by a loosely mounted sleeve 27. The rod 26 projects through the sleeve 27 and through a cap 28 mounted on the end thereof, and is provided on its projecting end with a knob 29, by means of which the rod 26 can be turned without turning the tube 27. The clamp carrying hinge is provided with a projection 30. This projection is provided with an opening 31 through which a screw 32 which is provided with a knurled knob 33, extends. The clamp carrying hinge is provided on its lower end with a slot 34, through which a clamp 35 extends. The clamp is provided with a screw threaded boss 36 to receive the screw 32, and preferably has its upper surface roughened so as to more readily grip a board. In order to secure the lamp 37 to my device I employ a clamp 38 which consists of two members hingedly connected together, and actuated by a leaf spring 39.

The construction of this clamp is similar to the ordinary patent clothes-pin, and each of its members are provided with a recess 40 so as to partially encircle the tube 27. Formed integral with the hinge member 41 is a perforated ear 42 in which a link 43 is secured. To this link is secured a spring member 44 which is provided with jaws 45. The jaws are provided with recesses 46 in which the ends 47 of a spring ring 48 fit. The spring member 44 is secured by a slide 49, which brings the jaws 45 together, and tightens the spring ring 48. The spring ring 48 encircles the cord holding member 50, which is composed of two sections so that it can be removed from the spring ring for the purpose of fitting it around the lamp

cord. The cord holding member is constructed of insulating material as is also the clamp 38. My purpose in doing this is to prevent any possibility of short circuiting, and also to prevent any danger of imparting a shock during the adjustment of the lamp.

The operation of my device is as follows: The cord holding member is first released by moving back the slide 49. The sections of the cord holding member 50 are removed and placed around the cord, after which they are inserted within the spring ring 48. The projecting ends 47 of the spring ring are then inserted within the recesses 46 of the jaws 45, and the slide 49 moved forward toward the jaws 45 forcing them together, and drawing the ring 48 tight around the sections of the cord holding member 50. The plate 9 is slipped over the edge of the article to which the holder is to be attached. The clamp carrying hinges are swung downward so that the clamp 35 can pass underneath this edge, (see Fig. 1) and the screws 32 tightened.

The jaws of the clamp 38 are then spread apart, and allowed to grasp the tube 27. The lamp 37 can now be adjusted to and from the operator as found desirable. The horizontal adjustment is then made by manipulating the knob 29, and the screwing out of the end 25 releases the lock or dog 20. When the proper adjustment sideways of the device has been made, the screw is again tightened, which forces the shoulders 23 against the plate 14 and prevents any swivelling motion of the tube 27.

The vertical adjustment is obtained by lengthening or shortening the cord. This feature being well known in the art and has not been described,—since there are various ways of lengthening or shortening the cord which are entirely independent of my invention.

Having fully described my invention, what I claim is:

1. An adjustable drop light support comprising securing clamps adapted to be secured to a support, a plate hingedly carried by said securing clamps, a tube pivotally mounted on said plate, a screw threaded sleeve located in said tube, a dog located in said tube adapted to contact with the plate, a screw threaded rod extending through said sleeve and adapted to contact with said dog, said rod and dog adapted to hold the tube against movement on the second mentioned plate and a cord holding clamp detachably and adjustably located on said rod.

2. An adjustable drop light support comprising securing clamps adapted to be removably attached to a support, a hinged plate forming one of the jaws of said clamps, ears formed integral with said plate, a second plate pivotally secured between said ears, a tube pivotally mounted on said second mentioned plate, a locking dog located in said tube and adapted to contact with the plate, a screw threaded sleeve located in said tube, a rod provided on one end with screw threads adapted to be inserted through said sleeve, and adapted to contact with said dog for forcing the same against the plate, a second tube surrounding said rod and extending into the first mentioned tube, and a clamp adjustably and detachably carried by the second mentioned tube, said clamp provided with a split ring whereby the same can be secured to an electric lamp cord without interfering with any of the electrical connections.

In testimony whereof, I have signed my name to this specification.

GEORGE W. ANDERSON.