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LIGHT FIXTURE

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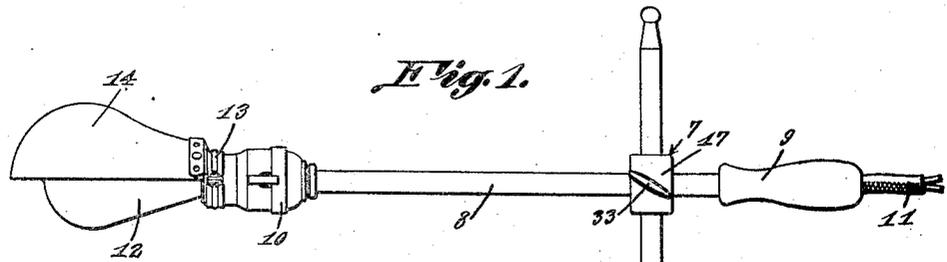


Fig. 1.

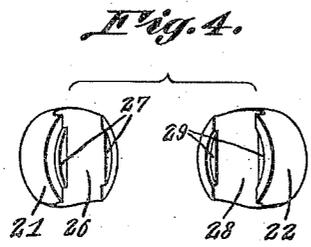


Fig. 4.

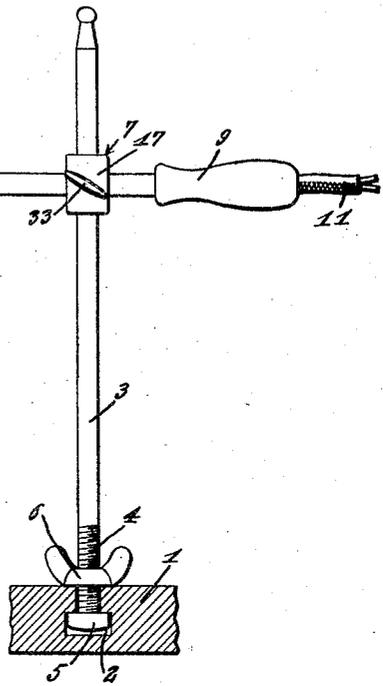


Fig. 2.

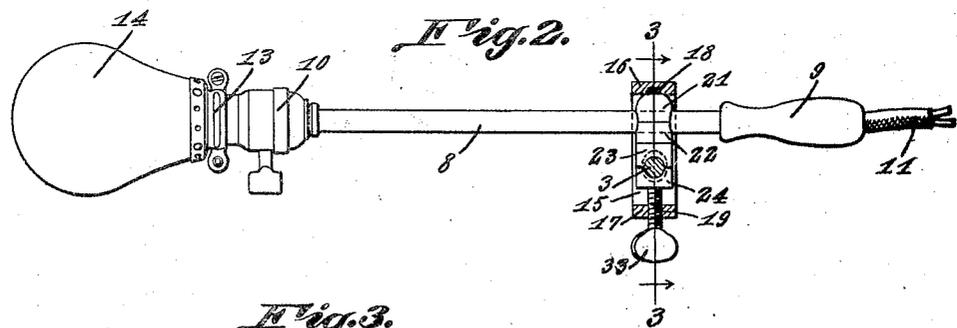
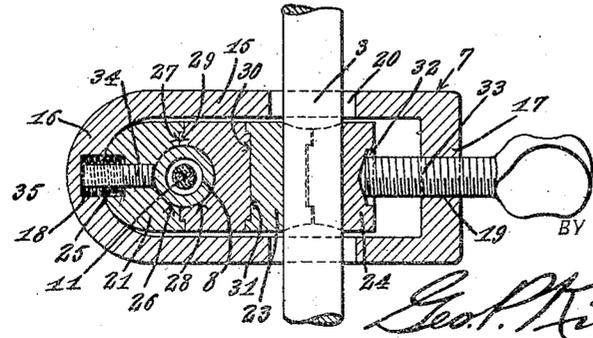


Fig. 3.



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## LIGHT FIXTURE.

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This invention relates to electric light fixtures and pertains particularly to an adjustable fixture.

The primary object of this invention is the provision, in a manner as hereinafter set forth, of an electric light fixture having an upright supporting standard and a normally horizontal light carrying arm fixed to the standard, with a novel securing and adjusting means connecting the upright standard to the horizontal arm.

Another object of the invention is the provision, in a manner as hereinafter set forth, of an adjustable electric light fixture having a standard provided with means whereby the lower end thereof may be fixed in a T groove of a machine such as a lathe, or other machine of this type to enable the operator thereof to have light thrown directly upon the work.

A final object of the invention is the provision, in a manner as hereinafter set forth, of an adjustable electric light fixture which shall be strong and durable, easily and quickly adjusted to position, and comparatively inexpensive to manufacture and easily and quickly set up upon the desired location.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawing forming a part of this specification, with the understanding that the invention is not confined to any strict conformity with the showing of the drawing but may be changed and modified so long as such changes and modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

In the drawings:—

Figure 1 shows the device embodying this invention and in side elevation.

Figure 2 is a top plan view of the fixture a portion thereof being shown in section to more clearly show the relation of the parts.

Figure 3 is an enlarged detailed sectional view taken upon the line 3—3 of Figure 2 and,

Figure 4 shows in detailed perspective a portion of the standard clamping structure of the fixture.

Referring now to the drawing in detail wherein like numerals of reference indicate corresponding parts throughout the several views, there is indicated by the numeral 1 a

supporting means for the fixture which means may be a portion of a machine such as a lathe, which is provided with a T-shaped groove 2. The upright standard of the fixture is indicated by the numeral 3 and as is shown the lower end of this standard is threaded as at 4 and has upon this end a nut 5 which is adapted to be positioned in the groove 2 to engage therein as shown. Threaded upon the end of the standard adjacent the nut portion 5 is a winged nut 6 which is threaded down against the top of the base portion 1 to secure the standard in the position shown.

Adjustably secured upon the standard 3 by the clamping structure indicated as a whole by the numeral 7, is a normally horizontal light carrying arm 8 provided at one end with a handle 9 and upon the other end with the incandescent lamp socket 10. This arm 8 is tubular and has an electric cord 11 extended therethrough from the handle end to the socket end, by means of which current is supplied to an incandescent bulb 12 positioned in the socket 10. Secured by means of the clamp 13 about the socket 10 is a shade or reflector 14, by means of which light from the bulb 12 can be directed to any desired point.

The securing clamp 7 comprises, as shown in Figure 3, an elongated U-shaped body member having the legs 15 connected at one end by the curved yoke portion 16 and having their other ends connected by the straight bar portion 17. The inner face of the yoke portion 16 is provided with a recess 18 while the connecting bar 17 is provided with a threaded aperture 19, and the legs 15 of the member have formed there-through aligned apertures 20.

Positioned within the U-shaped member is a plurality of aligned discs indicated by the numerals 21, 22, 23 and 24, respectively, the disc 21 being rounded upon one side as shown, to fit the curvature of the yoke 16 and further being provided with a recess 25 corresponding to and aligning with the recess 18 in the yoke 16. The other side of the disc 21 has a transverse semi-circular groove 26 cut across the face thereof and further has a relatively shallow circular recess 27 formed in this face.

The disc 22 abutting the disc 21 has its abutting face provided with a transverse semi-circular groove 28 and further has extending outwardly from this face the circu-

lar lug 29 which is designed to fit into the recess 27 of the adjacent disc to maintain the two discs in alignment. The opposite face of the disc 22 is also provided with the  
 5 outstanding lug 30 which fits in a corresponding circular recess 31 formed in the abutting face of the disc 23. The other face of the disc 23 and the abutting face of the  
 10 disc 24 are formed like the abutting faces of the discs 21 and 22, that is each with a transversely extending semi-circular recess and with a circular recess and corresponding circular rib to hold the discs in alignment. The outer face of the disc 24 has a socket  
 15 32 formed therein to receive the end of the binding screw 33 which is threadably extended through the aperture 19 in the connecting bar 17 between the legs of the U-shaped member. While the recesses and lugs  
 20 of the abutting members 21 and 22 and 23 and 24, have been described as circular, it will be readily seen from reference to Figure 4 that after the formation of the semi-circular grooves across the faces of these  
 25 discs, these recesses and lugs take the form of diametrically oppositely positioned segmental ribs or recesses, as the case may be.

Threaded into the center of the curved side of the disc 21 is a pin 34 which extends  
 30 a substantial distance beyond the side of the disc as shown and, when the discs are in aligned position as shown in Figure 2, this pin extends into the recess 18 in the yoke 16 of the U-shaped member and has positioned  
 35 thereabout a spring 35 which is compressed when the binding screw 33 is forced inwardly to force the discs into close relation.

As is readily seen, when the discs are in position as shown in Figure 3 they set up  
 40 an elongated cylindrical body having a pair of passages transversely thereof formed by the joining together of the semi-circular grooves of the abutting faces of the discs.

The standard 3 is extended through one of  
 45 these apertures, between the legs 15 of the U-shaped member while the arm 8 is extended through the other one of the apertures, which aperture is formed between the discs 23 and 24, and is also extended through  
 50 the apertures 20 in the legs 15 of the U-shaped member. It will be readily seen that slight rotary movement of and between the discs may take place, which movement allows the arm 8 to be raised or lowered in  
 55 an arc, and when the arm 8 and standard 3 are in the proper relation the binding screw 33 may be screwed inwardly to force the discs together and thus hold the standard and arm in the desired relation.

60 Having thus described my invention what I claim is:—

1. In a fixture of the character described, comprising a pair of crossed members, a clamp for securing said members together,  
 65 comprising a substantially U-shaped mem-

ber having a bar connecting the free ends of the legs thereof, a plurality of disc elements positioned side by side between said legs, the abutting faces of certain of the discs having semi-circular grooves formed there-  
 70 across setting up transverse apertures, each of said members being extended through an aperture, and a binding screw threaded through said bar and bearing against the adjacent one of said discs to bind the discs  
 75 together.

2. In a fixture of the character described, comprising a pair of crossed members, a clamp for securing said members together, comprising a substantially U-shaped mem-  
 80 ber having a bar connecting the free ends of the legs thereof, a plurality of disc elements positioned side by side between said legs, the abutting faces of certain of the discs having semi-circular grooves formed there-  
 85 across setting up transverse apertures, each of said members being extended through an aperture, a binding screw threaded through said bar and bearing against the adjacent one of said discs to bind the discs together,  
 90 and lug members formed upon the faces of certain of said discs and seating in co-acting recesses formed in the opposed faces of adjacent discs, to maintain the discs in  
 95 alignment.

3. In a fixture of the character set forth, a clamp structure for adjustably securing together a pair of crossed arms, comprising an elongated substantially U-shaped member  
 100 having a connecting bar between the normally free ends of the legs thereof, a plurality of disc members arranged between the legs of said member and having the flat faces thereof opposed in contacting relation, said  
 105 discs being grouped in pairs and each member of each pair having a semi-circular recess formed across the face opposing the associate member to set up a circular opening for the reception of one of said arms, the other one of said arms being extended  
 110 through a similarly formed passage between another pair of discs and further being extended through the legs of said U-member, and a tightening screw threaded through the bar connecting the legs of said U-member  
 115 and bearing against the adjacent one of said discs, to force the said discs into closer relation against the yoke of the U-shaped member, to clamp the arms in adjusted position.

4. In a fixture of the character set forth, a clamp structure for adjustably securing together a pair of crossed arms, comprising an elongated substantially U-shaped member  
 120 having a connecting bar between the normally free ends of the legs thereof, a plurality of disc members arranged between the legs of said member and having the flat faces thereof opposed in contacting relation, said  
 125 discs being grouped in pairs and each member of each pair having a semi-circular re-  
 130

cess formed across the face opposing the associate member to set up a circular passage for the reception of one of said arms, the other one of said arms being extended  
5 through a similarly formed passage between another pair of discs and further being extended through the legs of said U-member, a tightening screw threaded through the bar connecting the legs of said U-member  
10 and bearing against the adjacent one of said discs to force the said discs into closer relation against the yoke of the U-shaped member, to clamp the arms in adjusted position, and a pin member secured in and extending  
15 from the outer face of that disc member adjacent the yoke of said U-member, and engaged in an aperture in said yoke, to assist in maintaining the disc members in aligned position.

20 5. In a fixture of the character set forth, a clamp structure for adjustably securing together a pair of crossed arms, comprising an elongated substantially U-shaped member having a connecting bar between the normally free ends of the legs thereof, a plurality of disc members arranged between  
25 the legs of said member and having the flat faces thereof opposed in contacting relation, said discs being grouped in pairs and each member of each pair having a semi-circular recess formed across the face opposing the associate member to set up a circular passage  
30 for the reception of one of said arms, the other one of said arms being extended through a similarly formed passage between another pair of discs and further being extended through the legs of said U-member, a tightening screw threaded through the bar connecting the legs of said U-member and  
35 bearing against the adjacent one of said discs, to force the said discs into closer rela-

tion against the yoke of the U-shaped member, to clamp the arms in adjusted position, and interlocking means between said discs  
45 for maintaining the same in alignment with the legs of said U-member.

6. In a fixture of the character set forth, a clamp structure for adjustably securing together a pair of crossed arms, comprising an elongated substantially U-shaped member  
50 having a connecting bar between the normally free ends of the legs thereof, a plurality of disc members arranged between the legs of said member and having the flat faces thereof opposed in contacting relation, said  
55 discs being grouped in pairs and each member of each pair having a semi-circular recess formed across the face opposing the associate member to set up a circular passage for the reception of one of said arms, the  
60 other one of said arms being extended through a similarly formed passage between another pair of discs and further being extended through the legs of said U-member, a tightening screw threaded through the bar connecting the legs of said U-member and  
65 bearing against the adjacent one of said discs, to force the said discs into closer relation against the yoke of the U-shaped member, to clamp the arms in adjusted position,  
70 a pin member secured in and extending from the outer face of that disc member adjacent the yoke of said U-member, and engaged in an aperture in said yoke, to assist in maintaining the disc members in aligned position,  
75 and interlocking means between said discs for maintaining the same in alignment between the legs of said U-member.

In testimony whereof, I affix my signature hereto.

WALTER C. ASMAN.