E. G. BAER.

BRACKET.

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1,375,888.

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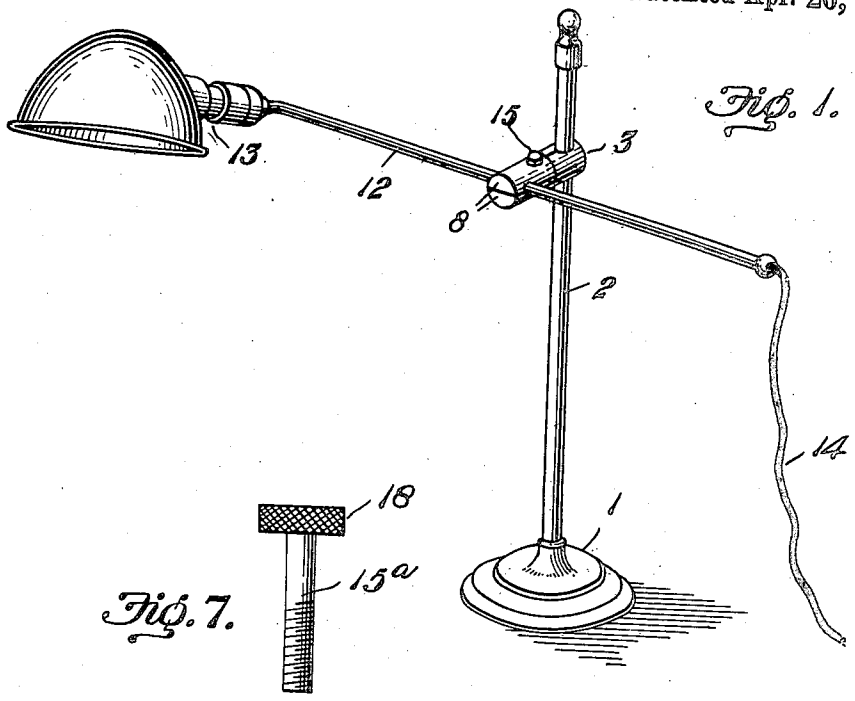


Fig. 1.

Fig. 7.

Fig. 2.

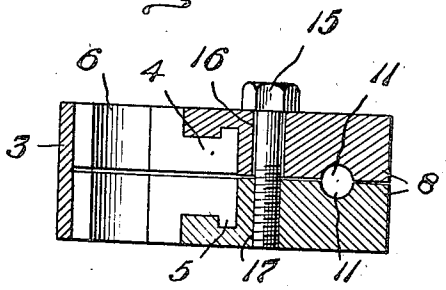
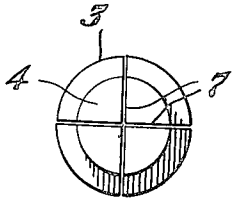


Fig. 5.



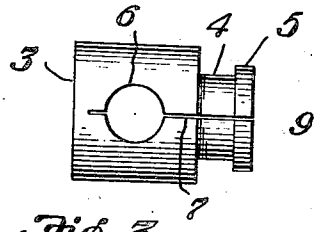


Fig. 3.

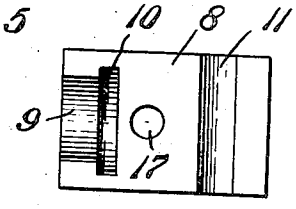
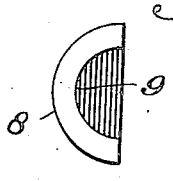


Fig. 4.

Fig. 6.



INVENTOR

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UNITED STATES PATENT OFFICE.

EDWARD G. BAER, OF ORRVILLE, OHIO, ASSIGNOR TO THE WILL-BURT COMPANY, OF ORRVILLE, OHIO, A CORPORATION OF OHIO.

BRACKET.

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Application filed April 3, 1920. Serial No. 370,950.

To all whom it may concern:

Be it known that I, EDWARD G. BAER, a citizen of the United States, residing at Orrville, in the county of Wayne and State of Ohio, have invented a new and useful Bracket, of which the following is a specification.

This invention relates to adjustable lamp brackets, especially adapted for use in mills, shops and factories and more particularly to the novel joint or clamp between the upright support and the lamp arm.

The objects of the invention are to provide a lamp bracket which may be easily and readily swung to any position and which may describe a complete arc in either a vertical or horizontal plane and which is provided with a joint or clamp provided with a single screw which clamps the joint upon the upright support and the lamp arm within the joint and clamps the joint itself in any desired position.

These objects are attained by providing an upright support, an adjustable lamp arm and a joint or clamp connecting the lamp arm to the support, said joint or clamp comprising a member provided with radial slots, mounted upon the upright support, and a pair of members mounted around said slotted member and carrying the lamp arm, means being provided for clamping said pair of members together to clamp the lamp arm therein and clamp said members upon the slotted member and to clamp the slotted member upon the upright support.

With these objects in view the invention consists in the novel construction and arrangement of parts, hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that various changes in the form, proportions, size and minor details of construction may be made within the scope of the appended claims, without departing from the spirit or sacrificing any of the advantages of the invention.

The invention thus set forth in general terms is illustrated in the accompanying drawings forming part hereof, in which—

Figure 1 is a perspective view of the lamp bracket embodying the invention.

Fig. 2 is a longitudinal sectional view through the joint or clamp.

Fig. 3 is a side elevation of the slotted member of the joint.

Fig. 4 is an elevation of one of the clamping bolts of the joint.

Fig. 5 is an end elevation of the member shown in Fig. 3.

Fig. 6 is an end elevation of the member shown in Fig. 4; and

Fig. 7 is a side elevation of a modified form of clamping screw.

A practical embodiment of the invention is disclosed in the accompanying drawings, forming a part of this specification in which similar numerals of reference indicate corresponding parts throughout the several views.

Referring first to Fig. 1, a base 1 is shown upon which the upright support 2 is mounted, but it will be understood that in many instances this base may be dispensed with and the upright 2 may be clamped in any desired manner to any stationary portion of a lathe or other machine.

Upon the upright support 2 is mounted the slotted member 3 of the joint or clamp, which is cylindrical in form and provided with a reduced neck 4 having an annular lip or flange 5 formed at its outer extremity, the cylindrical portion thereof being provided with a transverse bore 6 of suitable diameter to receive the upright support 2, radial slots 7 being provided through the neck 4 and the cylindrical portion of the member 3, and extending to the bore 6. These slots preferably divide the outer portion of the member 3 into four segments as shown in Fig. 5.

The joint or clamp further comprises two semi-cylindrical clamping blocks 8, each of which is provided with a semi-cylindrical socket 9 having an enlarged annular portion 10 to receive the neck 4 and flange 5 of the member 3. Each of the blocks 8 is also provided with a transverse semi-cylindrical channel 11, said channels registering with each other to form a cylindrical socket to receive the lamp arm 12, upon one end of which any suitable form of electric lamp may be provided as shown at 13.

The arm 12 is preferably tubular and the cord 14 is passed through said arm to the lamp and extends through the opposite end of the arm to any suitable attachment plug. A clamping screw 15 is located through the

clamping blocks 8, one of said clamping blocks being provided with a smooth bore 16 through which the screw is passed, the other block being provided with a tapped bore 17 to receive the threaded end of the screw. The device is assembled as shown in Figs. 1 and 2, the upright support 2 being located through the bore 6 of the member 3 and the flat faces of the blocks 8 placed together, the neck 4 and flange 5 of the member 3 being received within the sockets 9 of said blocks. The lamp arm 12 is received within the sockets 11 thereof; the clamping screw 15 is then inserted through the blocks 8 and tightened clamping the arm 12 between the blocks 8 at the same time clamping the neck portion of the member 3 between the blocks 8 and drawing the segments of the member 3 together thus clamping the member 3 upon the upright 2.

It will thus be evident that the lamp arm 12 is tightly clamped in any desired position within the joint or clamp, which joint or clamp is at the same time clamped upon the upright support 2 while the members of the joint or clamp are clamped together in any desired position all by means of the clamping screw 15. The joint or clamp may be clamped in any desired radial position upon the upright support 2 as well as at any desired height thereon and the lamp arm 12 may be clamped at any desired point within the clamp or joint and may be rotated therein to hold the lamp at any desired angle to the lamp arm, while at the same time the blocks 8 may be clamped in any position upon the slotted member 3, thus giving the arm 12 any desired adjustment in a complete arc in either a vertical or horizontal plane while at the same time the arm 12 may be adjusted vertically upon the support 2 and horizontally within the joint or clamp.

In Fig. 7 is shown a slight modification of the clamping bolt, the bolt 15ª shown in said figure being provided with a knurled head 18 which may be easily operated by hand, however, as the bracket is especially designed for use in shops, factories and mills the type of bolt shown in Fig. 2 is preferable as it may be easily adjusted by means of a wrench.

I claim:

1. A bracket comprising an upright support, a longitudinally split clamping member provided with a transverse bore for the reception of said upright support, a cylindrical extension upon said clamping member, a pair of clamping blocks provided with recesses to accommodate said cylindrical extension, each of said blocks being provided with a depression, an arm located in the depressions in said blocks and a clamping screw located through said blocks and arranged to clamp the arm between the blocks, and to clamp the blocks upon the cylindrical extension of the clamping member and to clamp the split clamping member upon the upright support.

2. A bracket comprising an upright support, a clamping member provided with a transverse bore for the reception of said upright support, the clamping member being split longitudinally through said bore, a reduced cylindrical portion at the split extremity of the clamping member, a pair of clamping blocks provided with recesses to accommodate said reduced cylindrical portion, each of said blocks having a transverse depression in its inner face, an arm located in the depressions in said blocks and a clamping screw located through said blocks and arranged to clamp the arm between the blocks and to clamp the blocks upon the reduced cylindrical portion of the clamping member and to clamp the split clamping member upon the upright support.

3. A bracket comprising an upright support, a cylindrical clamping member provided with a transverse bore for the reception of said upright support, said clamping member being split longitudinally through said bore, a reduced neck provided with an annular flange formed upon the split end portion of the clamping member, a pair of half cylindrical clamping blocks provided with recesses in their abutting faces to receive said reduced neck, each of said blocks being provided in its inner face with a transverse depression, an arm located in the depressions in said blocks and a clamping screw located through both blocks and arranged to clamp the arm between the blocks and to clamp the blocks upon the reduced neck and to clamp the split clamping member upon the upright support.

In testimony that I claim the above I have hereunto subscribed my name.

EDWARD G. BAER.