

1,190,502.

R. ANDERSON.
SUPPORT.
APPLICATION FILED JAN. 21, 1916.

Patented July 11, 1916.
2 SHEETS—SHEET 1.

Fig. 1.

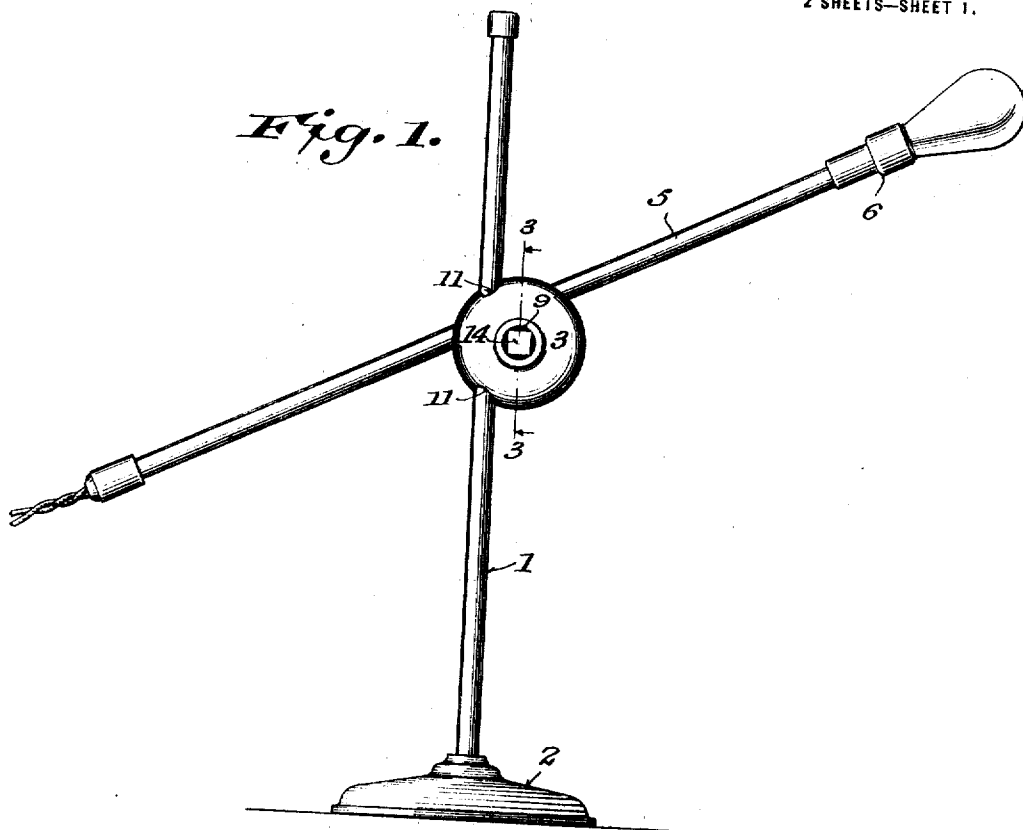


Fig. 2.

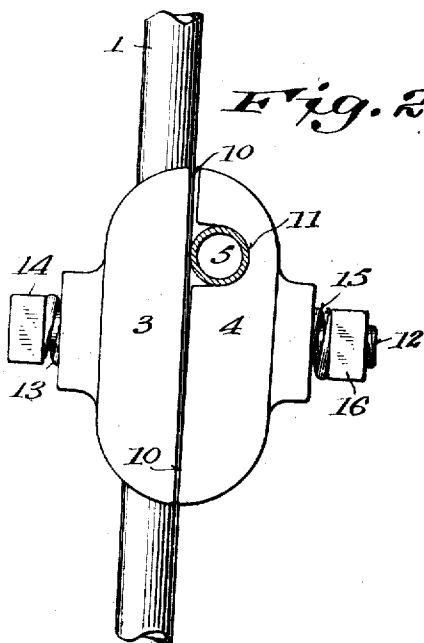
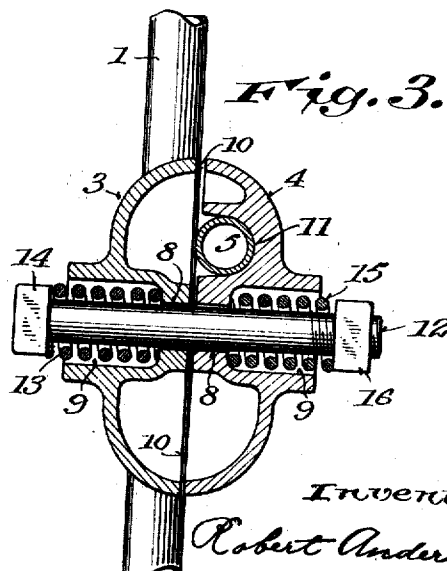


Fig. 3.



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2 SHEETS—SHEET 2.

Fig. 4.

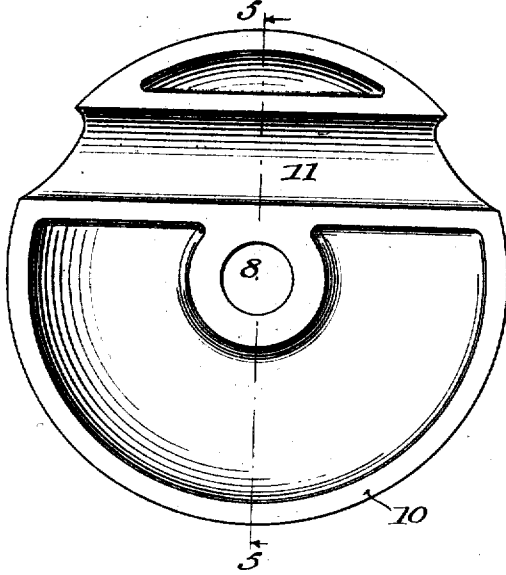


Fig. 5.

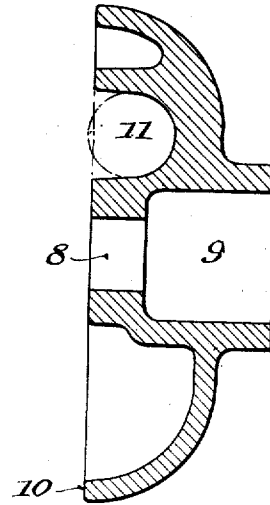


Fig. 6.

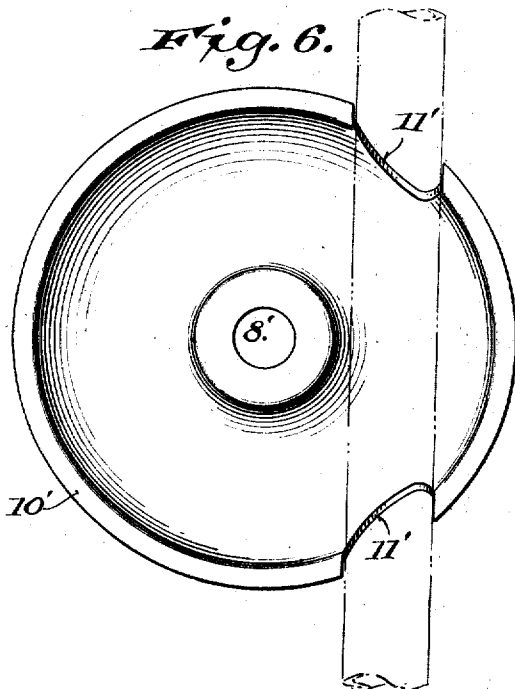
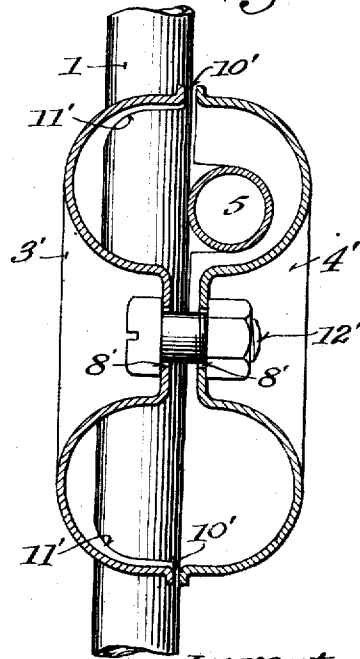


Fig. 7.



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UNITED STATES PATENT OFFICE.

ROBERT ANDERSON, OF RACINE, WISCONSIN.

SUPPORT.

1,190,502.

Specification of Letters Patent.

Patented July 11, 1916.

Application filed January 21, 1916. Serial No. 73,295.

To all whom it may concern:

Be it known that I, ROBERT ANDERSON, a citizen of the United States, residing at Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Supports, of which the following is a specification, reference being had to the accompanying drawing, forming a part thereof.

This invention relates more particularly to fixtures or supports for electric lamps and has for its main objects to provide a device of this kind which is of simple construction and attractive appearance and which may be easily and quickly adjusted, the adjustment being accomplished without the necessity of manipulating screws or other fastenings, and generally to improve the construction and operation of devices of this class.

The invention consists in certain novel features of construction and the combination of parts as hereinafter particularly described and defined in the claims.

One embodiment of the invention is illustrated in Figures 1 to 5 inclusive of the accompanying drawing, in which—

Fig. 1 is a side elevation of a lamp fixture or lamp support; Fig. 2 is an enlarged elevation of the clamp forming part of the fixture or support, as viewed from the right relative to Fig. 1; Fig. 3 is an enlarged section of the clamp on the line 3—3, Fig. 1; Fig. 4 is an inside elevation of one of the clamp members; Fig. 5 is a section on the line 5—5, Fig. 4; Fig. 6 is an inside elevation of a clamp jaw or member of a modified construction; and Fig. 7 is a central section through a clamp composed of two similar jaws or members of such modified construction.

In the several figures like or similar parts are identified by the same reference characters.

Referring to the drawings, 1 designates a main supporting arm which may be secured to a base 2, to form a portable stand as shown in Fig. 1, or may be secured to a bench or machine or attached to a wall or ceiling in any suitable manner. Upon the main arm 1 is slidably and revolvably mounted a clamp composed of two jaws 3 and 4. An adjustable lamp supporting arm 5, having a lamp socket 6 at one end, is slidably and revolvably supported by the same clamp. The main arm 1 and the lamp arm 5 are pref-

erably circular in cross section or cylindrical and may be formed of tubing and are frictionally held between the jaws 3 and 4.

The clamp is preferably formed of two like or similar jaws or members, 3 and 4, which may be made of cast metal and are provided with central bolt holes 8 and outwardly opening sockets 9. The inner side of each jaw or member is provided with a curved friction bearing rim or face 10 concentric with the bolt hole and is formed with a recess or seat 11, at a distance from and transverse to the bolt hole 8, to receive the arm 1 or 5, said arms being of somewhat greater diameter than the depth of the seat so that they will project slightly beyond the plane of the bearing face of the jaw or clamp member as is clearly shown by Fig. 5.

The two jaws or members 3 and 4 are pivotally connected by a bolt 12 which passes through the holes 8 and sockets 9. A spring 13 interposed between the head 14 and the inner end of the socket 9 of one member and a spring 15 between the nut 16 and the inner end of the socket of the other member, provides a yielding connection between the members 3 and 4 and holds them in frictional engagement with the arms 1 and 5.

The construction and connection of the clamping members or jaws 3 and 4, as herein shown and described, permits the clamp to be shifted and adjusted bodily upon and lengthwise of the main arm 1 and to be turned about the axis of said arm, and also allows the lamp arm 5 to be shifted and adjusted lengthwise and turned on its axis in the jaw member 4 and turned with said jaw member about the bolt 12 into any desired angular relation to or parallel with the main arm 1. All these adjustments are readily made without manipulating screws or other fastenings, the lamp being held, in any position to which it is adjusted, by the yielding frictional engagement of the jaws or clamp members 3 and 4 with the arms 1 and 5.

Figs. 6 and 7 of the drawings illustrate a modified form of clamp in which the two jaws or members 3 and 4' are formed of sheet metal and are like or similar to each other. They each have a central hole 8' for the reception of a bolt 12' for pivotally connecting them together and are each provided on their inner side with a curved bearing face 10' and with notches 11' forming a seat or recess for the reception of the main arm

1 or the lamp arm 5. The operation of this modified form of clamp is identical with that of the other form, the frictional engagement of the parts in the modified form being provided by the spring of the sheet metal forming the jaws or clamp members.

Various modifications, other than that shown and specifically mentioned, may be made in minor details of construction and arrangement of parts without departure from the principle and scope of the invention as defined in the following claims.

I claim:

1. In a support the combination with two arms, of a clamp composed of two similar and pivotally connected jaws having opposing friction faces each formed at a distance from and transversely to the pivot axis of the jaws with a recessed seat for one of the arms which is held herein in slidable engagement with the opposing friction face of the other jaw, each jaw with the arm carried thereby being angularly adjustable relative to the other jaw and arm.

2. In a support the combination with two arms, of a clamp composed of two similar pivotally connected jaws having opposing friction faces yieldable away from each other and each formed at a distance from and transversely to the pivot axis of the jaws with a recessed seat for one of the arms, which is held therein in slidable engagement with the opposing friction face of the other jaw, each jaw and the arm carried thereby being angularly adjustable relative to the other jaw and arm.

3. In a support the combination with two arms, of a clamp composed of two similar pivotally connected jaws having opposing friction rims concentric with the pivot axis of the jaws, yieldable away from each other, and each formed at a distance from and transversely to the pivot axis of the jaws with a recessed seat for one arm, which is

held therein in slidable engagement with the opposing friction rim of the other jaw, each jaw with the arm carried thereby being angularly adjustable relative to the other jaw and arm.

4. In a support the combination of a main supporting arm, an adjustable arm and a clamp composed of two similar members pivotally connected together by a bolt and having opposing bearing faces and recessed seats at a distance from and transverse to the pivot bolt, said seats being adapted to receive said arms each of which projects from its seat in one clamp member beyond the bearing face of that member, and a spring interposed between a bearing on the pivot bolt and the adjacent clamp member and adapted to hold each arm in frictional engagement with its seat in one member and with the bearing face of the other member.

5. In a support the combination of a main supporting arm, an adjustable arm and a clamp composed of two similar members having axially aligned bolt holes and spring sockets, a bolt passing through said holes and sockets and pivotally connecting said members, and springs interposed between bearings on the bolt and the inner ends of said sockets and adapted to hold the clamp members in yielding engagement with said arms, the clamp members being provided with opposing curved bearing faces and at a distance from and transverse to the pivot bolt with recessed seats to receive said arms each of which projects from its seat in one clamp member slightly beyond the bearing face of that member.

In witness whereof I hereto affix my signature in presence of two witnesses.

ROBERT ANDERSON.

Witnesses:

G. H. McCULLOUGH.
E. M. JOHNSON.

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In witness whereof I hereto affix my signature in presence of two witnesses.

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E. M. JOHNSON.

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

Correction in Letters Patent No. 1,190,502

It is hereby certified that in Letters Patent No. 1,190,502, granted July 11, 1916, upon the application of Robert Anderson, of Racine, Wisconsin, for an improvement in "Supports," an error appears in the printed specification requiring correction as follows: Page 2, line 20, claim 1, for the word "herein" read *therein*; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 1st day of August, A. D., 1916.

[SEAL.]

F. W. H. CLAY,

Acting Commissioner of Patents.

Cl. 248—8.

Washington, D. C."

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Cl. 248—8.