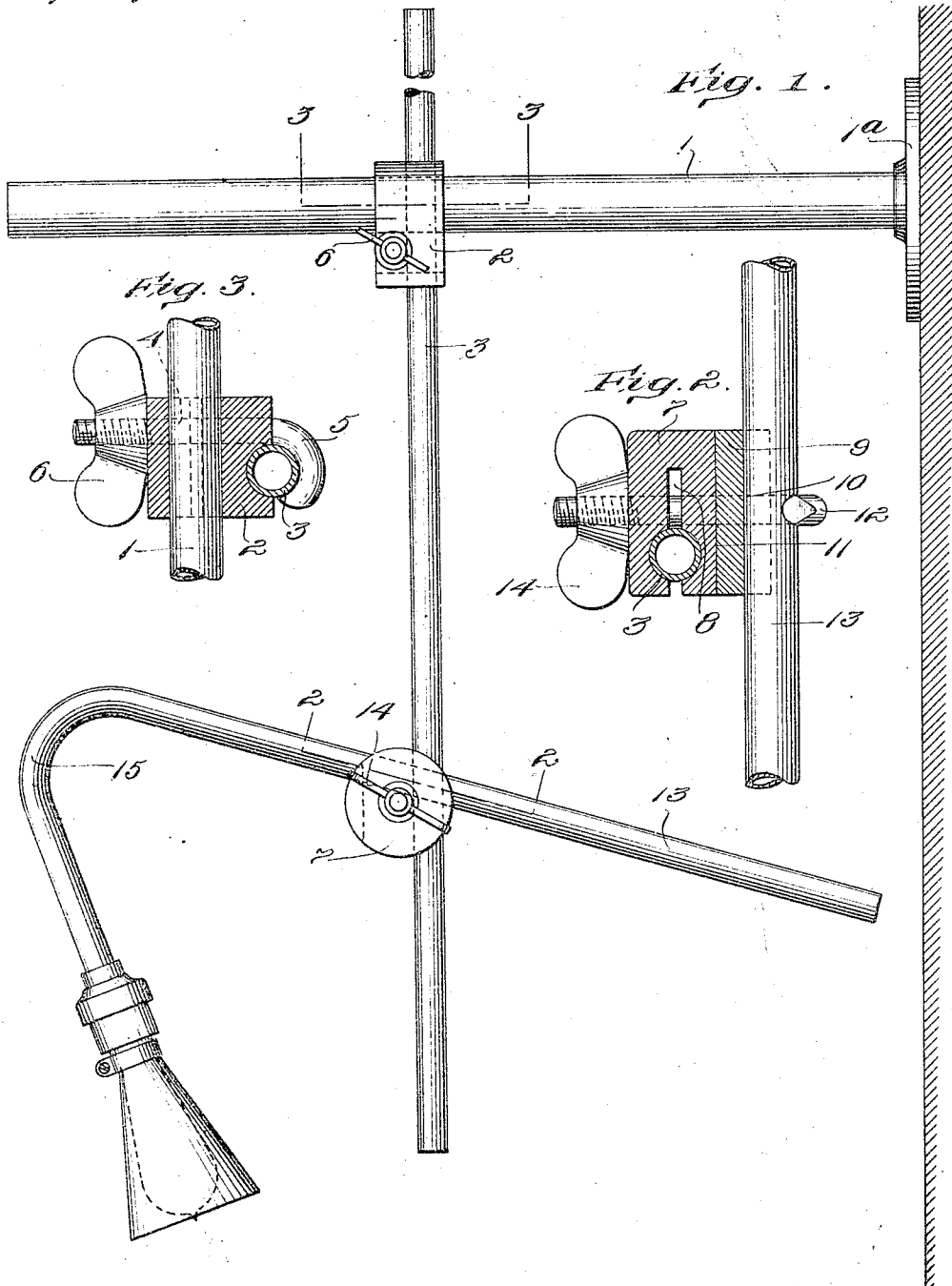


C. H. NICHOLS.
ADJUSTABLE LAMP SUPPORT.
APPLICATION FILED MAR. 13, 1911.

1,057,658.

Patented Apr. 1, 1913.



Witnesses:
Edward Maxwell
Jesse A. Holton

Inventor
Charles H. Nichols
by Geo. H. Maxwell

UNITED STATES PATENT OFFICE.

CHARLES H. NICHOLS, OF HAVERHILL, MASSACHUSETTS.

ADJUSTABLE LAMP-SUPPORT.

1,057,658.

Specification of Letters Patent.

Patented Apr. 1, 1913.

Application filed March 13, 1911. Serial No. 614,103.

To all whom it may concern:

Be it known that I, CHARLES H. NICHOLS, a citizen of the United States, residing at Haverhill, in the county of Essex and State of Massachusetts, have invented an Improvement in Adjustable Lamp-Supports, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

In numerous kinds of work it is desirable to concentrate light upon relatively small spaces and upon different spaces at different times, as in the case of successive operations on separated parts of the work.

My invention provides a lamp support which can be instantly adjusted by simple manipulation to bring the lamp directly opposite and in proximity to any desired point, and means to securely clamp the same in such position.

The invention will be understood from the following description in connection with the accompanying drawings, wherein,

Figure 1 is a side elevation of my improved lamp support; Fig. 2 is a sectional view on line 2-2 of Fig. 1, the lamp carrying rod being shown broken away in elevation; and Fig. 3 is a vertical section on line 3-3 of Fig. 1, the standard in elevation, broken away.

A support or standard 1, shown as round and tubular, has fixed thereto or integral therewith at one end a flange 1^a by which it may be secured either vertically, or horizontally as to a side wall of the room, by suitable bolts or otherwise. A split clamp block 2 has a socket formed between the parts thereof to receive said support, and another socket recess at one side extending at right angles to the standard socket to receive a round bar 3. A screw bolt 4 having a hook 5 at one end formed to fit around the rod 3 is passed through a hole therefor in the two parts of the clamp block. This screw bolt has a wing nut 6 threaded to the free end thereof, which being screwed against the adjacent side of the block, will simultaneously draw the two parts of the clamp block together to grip the same against the standard 1 and at the same time draw the hook 5 against the bar 3 and hold the same firmly to its socket in the clamp post, thus by a single adjustment clamping the block 2 fixedly to the standard 1 to se-

cure it against angular and vertical movement, and simultaneously clamping the rod 3 to the block against longitudinal and angular displacements.

A block 7 constituting one part of a second clamping device, has a socket to receive the bar 3, and a slot 8 intersecting said socket to enable the sides of the block to be drawn against said bar. This block is formed with a plane face at one side to fit against the corresponding face on a block 9, as shown at 11. The block 9 has a socket recess extending thereacross to receive the lamp-carrying rod 13, and all these parts are adapted to be firmly drawn and clamped together by a screw bolt 10 having a hook 12 at one end to engage around the rod 13, this screw bolt passing transversely through the block parts 7 and 9 and having its other end threaded to receive a wing nut 14 adapted to be screwed against the adjacent face of the block 7. For many applications I have found that it is convenient to have the lamp-holding rod 13 bent at an acute angle, as shown at 15, but obviously this is a mere matter of convenience and not an essential of the invention in its broader aspects.

It is obvious that as the wing-nut 14 is loosened, the lamp may be moved to any desired angle whatsoever, and to any desired position within wide limits, this being accomplished by the longitudinal or angular adjustment of the rod 13 in its socket; the relative angular adjustments of the blocks 7, 9 about the screw bolt 10 as an axis; together with the longitudinal and angular adjustment of the block 7 relative to the bar 3; and that all the parts involved in these several coöperative adjustments may be instantly clamped by the turning up of the single wing nut 14. The range of adjustments thus afforded is further multiplied by the longitudinal and angular adjustments of the rod 3 and standard 1 relative to the block 2, as before explained. The lamp can be directed to any desired angle whatsoever and drawn lengthwise to bring it into close proximity to different parts of the work successively by the manipulation of a single conveniently placed wing nut 14 for the usual changes of position necessary, while further cumulative adjustments are possible by loosening the wing nut 6, this latter being moreover useful for semi-permanent setting of the bar 3

in positions which it may occupy in the usual course for considerable intervals. Current energy for the lamp may be supplied in any desired manner, by conveying it through the tubular supporting members or otherwise, this forming no part of the present invention.

It is of course to be understood that while the device has been described with reference to its capability of holding a lamp in the various desired adjustments, this is merely illustrative and that the device is adapted for holding a wide variety of articles or parts which it may be desired to adjust to different determinate positions, such as telephones, mirrors, and the like, and that therefore the terms "lamp" and "lamp holder" as used in the appended claims are merely illustrative and are intended to include any article or appliance which is adapted to be supported by the device as set forth.

Having described my invention, what I claim as new and desire to secure by Letters Patent is,

1. A device of the kind described, comprising a support, a member engaged therewith for endwise and angular movement, a second member in swiveled relation to the first member, a lamp holder engaged with said second member for angular and longitudinal movement with relation with said second member, and a bolt having a hook at one end for engaging said lamp holder arranged to constitute an axis for swiveling said first and second members and mounted

to clamp all of said parts rigidly in different adjusted positions.

2. A device of the kind described, comprising a support, a member socketed thereon for endwise and angular movement, a second member in swiveled relation to said first member, a lamp holder socketed for angular and longitudinal movement relative to said second member, and a single means for simultaneously clamping said members rigidly in their different adjusted positions, said means being arranged to also constitute an axis for said swiveled adjustment between said first and second members.

3. A device of the kind described, comprising a support, a block having a socket to receive the same with a capability of angular and straight line adjustment, said block being split to facilitate clamping action against the support, a second block fitted to said first block for relative swiveling adjustment, a holder for a lamp or the like fitted to a socket in said second block, and a bolt with a hook at its end passed through said block with the hook engaging said holder and adapted to rigidly clamp all of said parts and also to constitute a swivel axis for said two blocks.

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

CHARLES H. NICHOLS.

Witnesses:

GEO. H. MAXWELL,
EDWARD MAXWELL.