May 29, 1928. 1,671,510

A. J. CARMICHAEL ET AL

PORTABLE LAMP

Filed Jan. 12, 1924 2 Sheets-Sheet 1

Fig. 1.

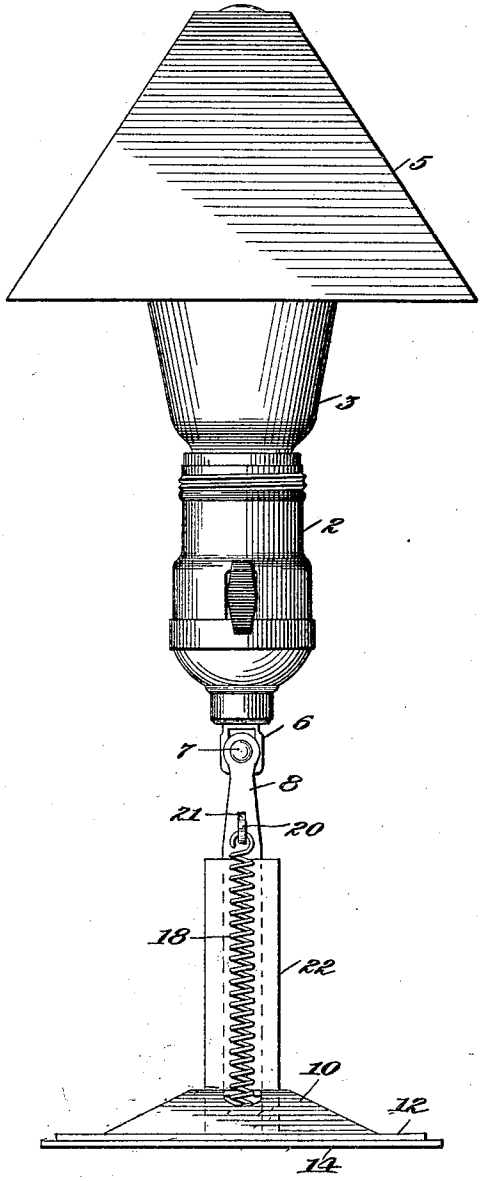
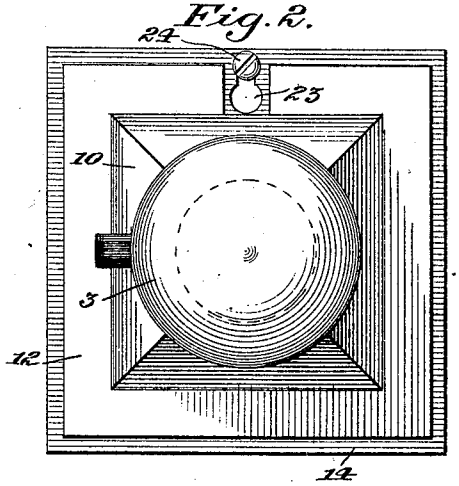


Fig. 2.



Inventors:
Andrew J. Carmichael,
Orestes Balzano,
by C. A. Mason Att'y.

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Fig. 3.

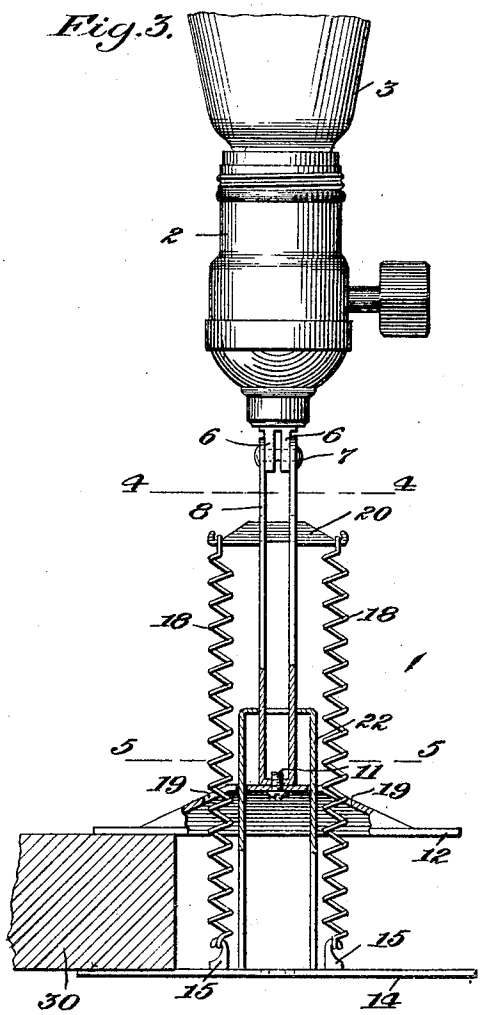


Fig. 4.

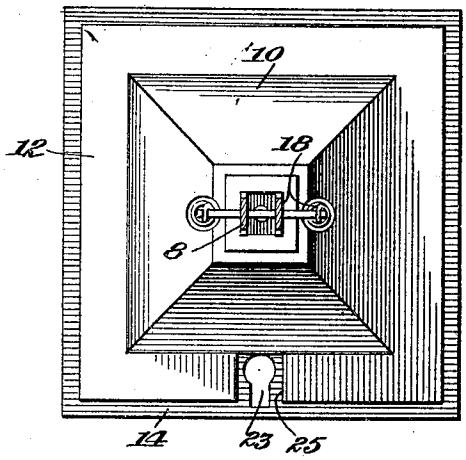
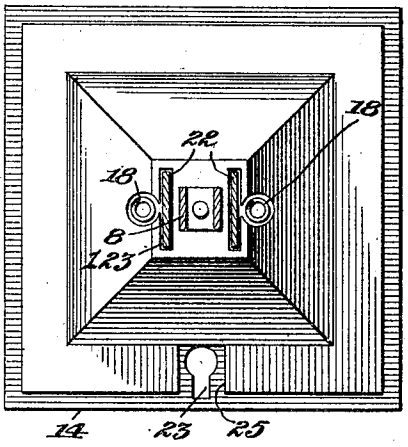


Fig. 5.



Inventors:
Andrew J. Carmichael,
Oreste Balzano,
by C. A. Mason, Atty.

Patented May 29, 1928. 1,671,510

UNITED STATES PATENT OFFICE.

ANDREW J. CARMICHAEL AND ORESTO BALZANO, OF NEW HAVEN, CONNECTICUT, ASSIGNORS TO THE GREIST MANUFACTURING COMPANY, OF NEW HAVEN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

PORTABLE LAMP.

Application filed January 12, 1924. Serial No. 685,908.

This invention relates to portable lamps, and more particularly to portable electric lamps.

An object of the invention is to provide a lamp of the type referred to which will be neat and attractive in appearance, which may be manufactured economically, and which will embody means for clamping the lamp to a suitable support, and will reliably maintain the lamp clamped to such support. Another object of the invention is to provide a lamp of the type referred to with means for suspending it from an object such as a nail or screw which projects from a vertical wall, or the like.

With the above, and other important objects in view, the invention comprises as an important feature a plurality of sheet metal members which are arranged to slide upon each other telescopically, one of said members being connected to the lamp, and the base thereof, and the other of said members connected to a clamping part, there being springs or other tension devices extending between said clamping part and a part which is rigidly connected with one of said slidable members. The spring or springs are put under tension when the clamping device is withdrawn from the base of the lamp for the purpose of clamping the lamp to a support. Other features of the invention, such as important details of construction, and combinations of elements, will be better understood from the following description of the invention, in connection with the accompanying drawings, and the novel features will be pointed out in the appended claims.

In the drawings:

Fig. 1 shows a lamp in side elevation embodying the invention;

Fig. 2 is a plan view;

Fig. 3 is a side elevation taken at right angles to Fig. 1, with certain parts in section, and showing the clamping members engaging a support;

Fig. 4 is a horizontal section on the line 4—4, Fig. 3, and,

Fig. 5 is a horizontal section on the line 5—5, Fig. 3.

The usual lamp socket 2 contains a bulb 3, upon which is supported the lamp shade 5, the latter being herein shown in the form of a truncated pyramid. This design of shade is attractive in appearance and harmonizes artistically with the other parts of the lamp to be described. The form of the lamp shade is no part of the present invention, and is not claimed herein.

The lamp socket 2 is provided with two downwardly projecting spaced lugs 6 to which are pivotally attached the spaced terminals of a U-shaped sheet metal lamp supporting member 8, the terminals of said member being herein shown as disposed outside of the lugs 6 to which they are connected pivotally by a suitable pin or rivet 7. The base of the lamp is herein shown as square in its outline, and comprises a pyramidal raised portion 10, and a flattened lower portion 12. The U-shaped member 8 is rigidly connected at its lower, closed end, as by a screw 11 to the center of the raised portion 10 of the base.

A lower flat, preferably square, sheet metal clamping member 14 underlies the base of the lamp, the flattened part 12 of which base normally rests upon the clamping member, as shown in Fig. 1. The clamping member is provided on its upper face with two spaced hooks 15 to which the lower ends of two springs 18 are connected, said springs extending upwardly through openings 19 in the base 10 and having their upper ends passed over the hook-shaped ends of a yoke 20, which yoke passes through registering slots 21 in the side members of the support 8.

Extending upwardly from the center portion of the clamping member 14 is a U-shaped sheet metal guide 22. The sides of this guide pass through slots 123 in the top 10 of the base, and the upper end of the guide is provided with a square opening to receive slidably the U-shaped support 8. As shown, the support 8 and guide 22 slide telescopically relatively to each other as members 12 and 14 are caused to separate or approach each other, in clamping the lamp to a support, or in removing it from clamped relation thereto. It will be seen that in order to clamp the lamp to a shelf or support, such as 30, the member 14 will be pulled away from the member 12 a distance sufficient to permit said members to

embrace the support, the springs 18 being stretched or tensioned during the separation of the parts, and that said springs will react to clamp the members 12 and 14 to said support, when the parts are released.

The clamping member 14 is provided, near one edge, with a key-hole slot 23, a portion of the edge of the flattened part 12 of the base being cut away at 25 to expose said slot. The key-hole slot may be passed over a suitable screw, or nail, 24, as shown in Fig. 2, thereby to support the lamp from a vertical wall or the like. The arrangement of the slidably engaged members 8, 22, and the springs 18, results in a compact and efficient organization for accomplishing the purposes desired, which is neat in appearance and attractive as a whole in connection with the base and clamping member. At the same time such arrangement possesses a minimum number of parts, all of such parts being of sheet metal except the springs, and being economical to manufacture. The lamp when seen standing as a table lamp upon any supporting surface would instantly convey to the beholder's mind a recognition of the fact that it was a clamping lamp, and such indication of the character of the device is desirable as the use to which it may be put becomes obvious upon mere inspection and requires no explanation or directions. It is also a desirable feature of the construction referred to, that the key-hole slot in the base plate is visible from above, which also instantly conveys the impression that the lamp can be hung up upon a wall hook, or nail, or screw head.

It is obvious that the invention is not necessarily limited in all respects to the specific construction and arrangement of its various elements as disclosed in the drawings, as these may be varied to some extent without departing from the principles of the invention, provided such variations in construction or arrangement are not of a character to be excluded from the scope of the following claims.

We claim as our invention:

1. In a portable and adjustable lamp, two U-shaped members arranged to slide one within the other, one of said members connected at one end with the lamp, a base secured to the other end of said member, and the other member connected with a clamping device, a yoke extending transversely of the first-mentioned member, and springs having one end connected with said yoke and the other end attached to said clamping device.

2. In a device of the class described, a U-shaped sheet metal member, means for connecting one end thereof to a lamp, a lamp base connected with the other end of said member, a second U-shaped member provided with an aperture at its closed end to receive telescopically the first-named member, a clamping device connected with the open end of said second U-shaped member, and a spring having connection at one end with the first-named member, and at its other end with said clamping device.

3. In a device of the class described, a plurality of U-shaped sheet metal members one of said members provided with an opening for telescopic sliding movement with the other member, and one of said members being connected at its ends, respectively, with a lamp and a base, the other of said members connected at its free ends with a clamping device, a yoke extending through the first-named member, anchoring means secured to said clamping device, and springs connecting said yoke and anchoring means, said springs arranged to be tensioned when the clamping device is separated from the base, and to act yieldingly for clamping said parts to a support.

4. In a device of the class described, a U-shaped sheet metal support, means for pivotally connecting the free ends of said support with a lamp, a hollow sheet metal base provided with spaced openings, means for securing the other end of said support to said base, a yoke extending transversely through apertures in said support, a clamping member cooperatively related to said base, a U-shaped guide extending through slots in said base and having at one end an opening to slidably receive said support, the opposite ends of said guide being secured to the clamping member, and springs attached at one end to said yoke and at their opposite end to said clamping member, said springs extending through the openings in said base.

5. In a device of the class described, the combination of a lamp, a lamp base, a support connecting said lamp and base, a clamp having a guide for slidably engaging said support, and two springs located, respectively, upon opposite sides of the longitudinal center line of the lamp and so connected to the parts as to yieldingly urge the clamp toward the base, said springs being exposed to view so as to indicate the character of the clamping elements of the lamp.

In testimony whereof we have hereunto set our hands this 9th day of January, A. D. 1924.

ANDREW J. CARMICHAEL.
ORESTO BALZANO.