Feb. 2, 1926. 1,571,407

W. C. GREIST

PORTABLE LAMP

Filed March 12, 1924 2 Sheets-Sheet 1

Fig. 1.

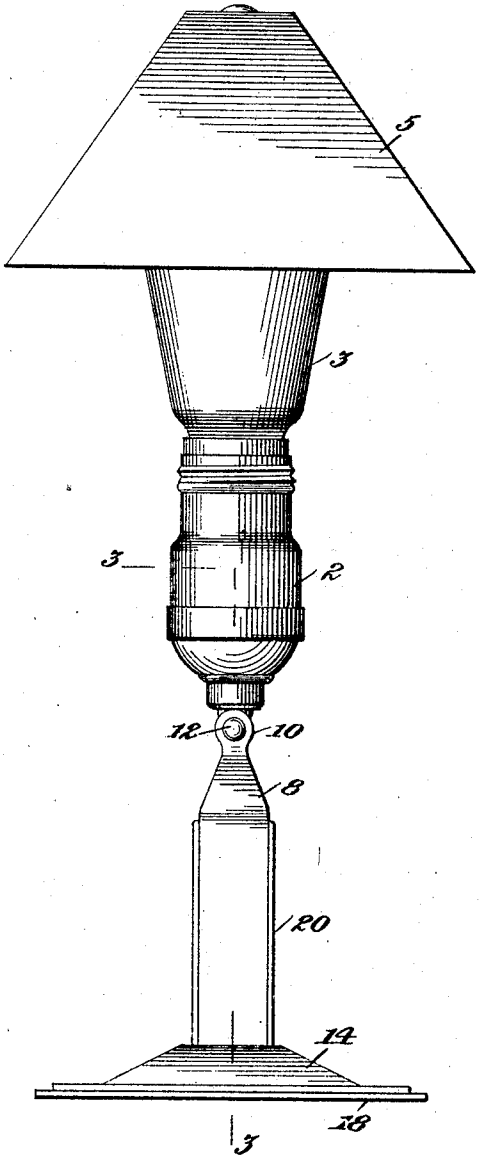


Fig. 2.

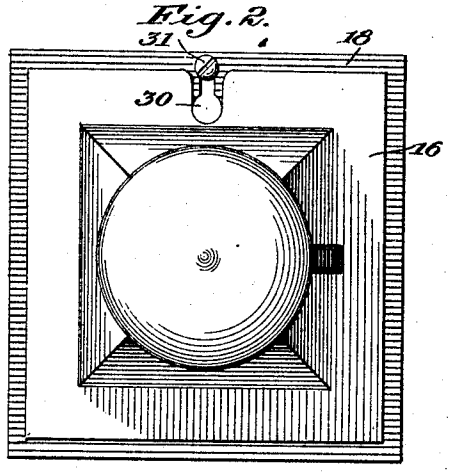
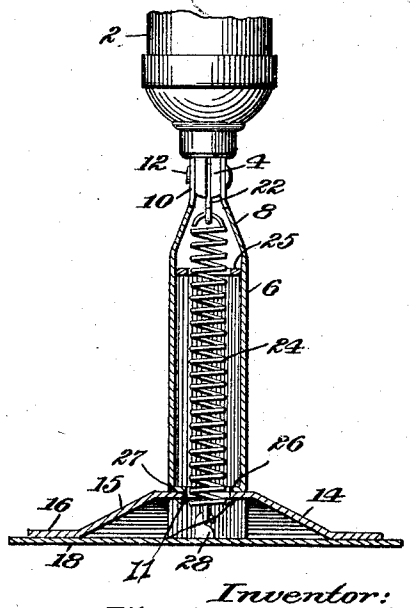


Fig. 3.



Inventor:
Walter C. Greist,

by C. A. Mason Atty.

Feb. 2, 1926. 1,571,407

W. C. GREIST

PORTABLE LAMP

Filed March 12, 1924 2 Sheets-Sheet 2

Fig. 4.

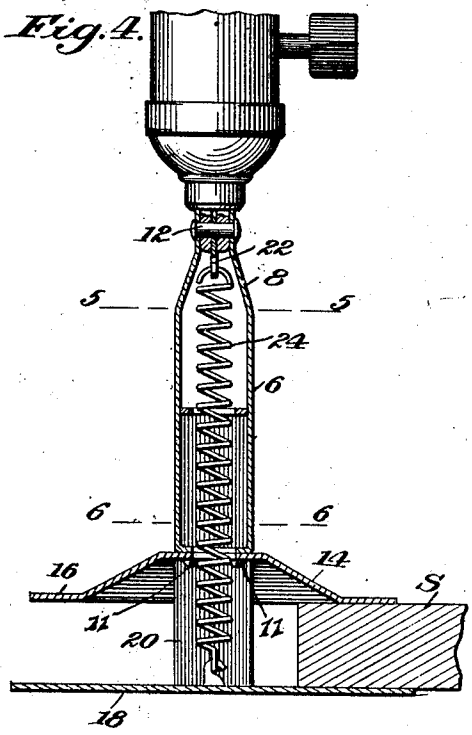


Fig. 5.

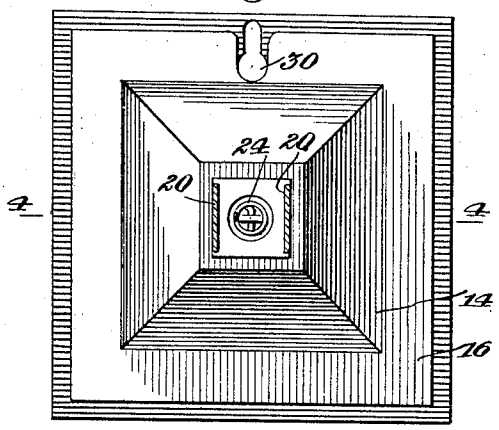
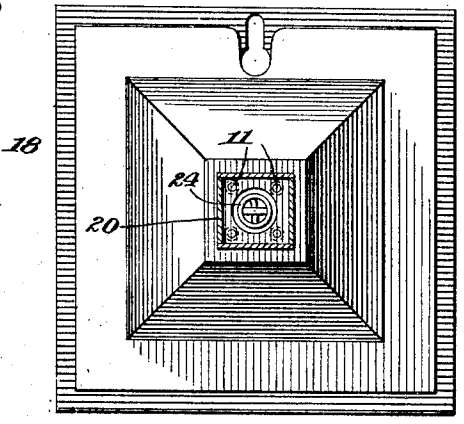


Fig. 6.



Inventor:
Walter C. Greist,

by C. A. Mason, Att'y.

Patented Feb. 2, 1926. 1,571,407

UNITED STATES PATENT OFFICE.

WALTER C. GREIST, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE GREIST MANUFACTURING COMPANY, OF NEW HAVEN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

PORTABLE LAMP.

Application filed March 12, 1924. Serial No. 698,739.

To all whom it may concern:

Be it known that I, WALTER C. GREIST, a citizen of the United States of America, residing at New Haven, in the county of New Haven and State of Connecticut, have invented a certain new and useful Improvement in Portable Lamps, of which the following is a full, clear, and exact description.

This invention has relation to lamps, and more particularly to portable lamps of the type that embody adjustable clamping devices for securing the lamp to a suitable support.

The invention embodies as an important feature in a lamp of the type referred to, two clamping members with a spring for urging them toward each other for clamping the lamp to a support, and a novel construction and arrangement of parts constituting the lamp-supporting stem for enclosing the spring. Such stem or support is composed of telescopically sliding members operating in pairs and so disposed as to enclose a space for the spring, such space being square in cross-section. One pair of sliding members is connected with the lamp base, which constitutes one clamping member, while the other pair is connected with a plate which constitutes the other clamping member. In addition to the functions of supporting the lamp and housing the spring, the aforesaid telescopic stem is attractive in appearance, and imparts grace and symmetry to the lamp construction as an entirety.

The foregoing, and other features of the invention, such as important details of construction and arrangements of parts, will be more fully set forth in the following description in connection with the accompanying drawings, in which:

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

Fig. 2 is a plan view thereof;

Fig. 3 is a sectional view of the base and stem portions of the lamp, on the line 3—3, Fig. 1;

Fig. 4 is a similar view showing the lamp clamped to a support;

Fig. 5 is a horizontal section on the line 5—5, Fig. 4, and

Fig. 6 is a horizontal section on the line 6—6, Fig. 4.

The usual lamp socket 2 contains a bulb 3, upon which may be supported a lamp shade 5, herein shown in the form of a truncated pyramid, but which may be of any suitable design. The lamp socket 2 is provided with two spaced, downwardly extending lugs 4, and a U-shaped sheet metal member 6, constituting one-half of the lamp stem, has its upper terminal portions 8 contracted, with reference to each other, and its extreme ends 10 embrace the lugs 4 to which latter they are pivotally connected by a suitable pin or rivet 12. The closed end of the U-shaped member 6 is secured by any suitable means, such as screws or rivets, 11, to the upper surface of the lamp base 14. The base of the lamp is herein shown as rectangular in shape and as comprising a pyramidal raised portion 15, which is enclosed by a flattened portion 16. The portion 16 of the base normally rests upon a lower flat, preferably square, sheet metal clamping plate 18, the latter being herein illustrated as somewhat larger in area than the base, so that its side edges project slightly beyond said base.

A second U-shaped member 20, also preferably formed of sheet metal, has its lower end portions firmly secured, as by rivets, to the clamping plate 18, the sides of said member 20 extending upwardly through parallel slots located equidistant from the center of the top portion of the base, said U-shaped member being arranged to telescopically slide within the member 6, and the members 6 and 20 forming a hollow rectangular space. As herein shown, a hook or other suitable anchoring device 22 is clamped between the lugs 4, and is perforated to receive the rivet 12 so that said rivet pivotally secures together the terminals 10 of the member 8, the lugs 4, and the hook 22. Said hook receives the upper end of a spring 24 which extends down through a perforation 25 at the closed end of the U-shaped member 20, and other perforations 26, 27, in the closed end of the U-shaped member 6 and the top of the base 14, the lower end of said spring being suitably anchored to the member 18, as by a hook 28 which is rigidly secured to the center portion of the inner surface of said member.

From the construction as described it will be seen that the stem of the lamp is formed by the members 6 and 20, the two

spaced parallel sides of each of which members enclose a space which is square in cross section, and which space serves to house the spring 24. Said spring normally holds the clamping member 18 yieldingly against the base 14, and said base has its central portion in the form of a truncated pyramid which supports the stem of the lamp, formed by the two telescopic members 6, 20. The lamp is accordingly of a neat and attractive appearance, and embodies clamping means by which the lamp may be easily clamped to a support such as S, by merely pulling the member 18 away from the base, passing parts 16, 18 on opposite sides of the support and releasing said parts whereby the spring 24 which was placed under tension when the clamping members were separated yieldingly draws said parts toward each other for clamping the same to the support.

The clamping member 18 may, and preferably will be, provided with a key-hole slot 30 near one edge for engaging a screw or nail 31 projecting from the wall of a room or other vertical surface for thereby suspending the lamp in a horizontal position from said surface. Such key-hole slot is not, however, a feature of the present invention and will not be claimed herein.

It is obvious that the sliding members 6 and 20 constitute in effect four members, it being immaterial whether the parallel sides of one or both of said members be formed of separate parts attached independently to the base 14 and plate 18, or be connected by a web of metal to form a U-shaped one-piece member.

Other changes in the details and arrangements of part are obviously within the spirit of the following claims.

Having thus described my invention what I claim as new and desire to secure by United States Letters Patent is:

1. A portable lamp having a base, a clamping member to engage said base, a plurality of pairs of slidably engaged members constituting the stem of the lamp, one pair of said members engaging the base and the other pair of said members engaging the clamping member, said pairs of slidable members being spaced apart and so arranged relatively to each other as to form a closed hollow stem of rectangular cross section, and yielding means enclosed by said stem for drawing the base and clamping member together.

2. In a portable lamp, a base, a clamping member therefor, two pairs of members constituting the stem of the lamp and arranged for slidable engagement, said members being spaced apart and arranged to form the four sides of a rectangular enclosure, and yielding means located in said enclosure and constructed and arranged for urging the clamping member toward the base.

3. In a portable lamp, a base, a clamping member to cooperate therewith, opposite pairs of telescopic members connected, respectively, with said base and clamping member, and spaced apart and arranged to enclose a space of rectangular cross-section thereby forming a rectangular-shaped stem for the lamp, and a spring located in said stem, said spring connected with said clamping member and arranged to yieldingly urge said member toward said base.

4. In a portable lamp, a base of sheet material having a central portion raised above its edges, a U-shaped member of sheet material having its closed end portion secured to the base and its free ends connected with a lamp socket, a clamping plate for engagement with said base, a second U-shaped member of sheet material arranged for sliding engagement with the first-mentioned U-shaped member and having its free ends secured to the clamping member and its closed end located within said first-named U-shaped member, said U-shaped members arranged to form a hollow rectangular stem, and a spring located within said stem and having one end secured to the lamp socket and the other end secured to said clamping member, said spring adapted to yieldingly hold said clamping member in engagement with the base.

5. In a portable adjustable lamp, the combination of a sheet metal rectangular base having a central raised pyramidal portion, a flat clamping plate underlying said base, slidable U-shaped sheet metal members arranged to form a hollow square and constituting the stem of the lamp, one of said members secured to the central portion of the base, and the other of said members secured to said clamping plate and extending through slots spaced on opposite sides of the center of the raised portion of said base, said base and the closed ends of said U-shaped members being provided with perforations, and a spring extending through said perforations and having one end connected with the lamp socket, and its opposite end connected with said clamping member.

6. In a portable adjustable lamp, a sheet metal base, a sheet metal clamping member below said base, reversely arranged U-shaped sheet metal members attached, respectively, to said base and plate, and arranged to slidingly engage each other, said members forming a hollow stem, and a yielding device enclosed within said stem and having one end attached to the lamp socket and the opposite end attached to said plate.

In testimony whereof I have hereunto set my hand this 27th day of February A. D. 1924.

WALTER C. GREIST.