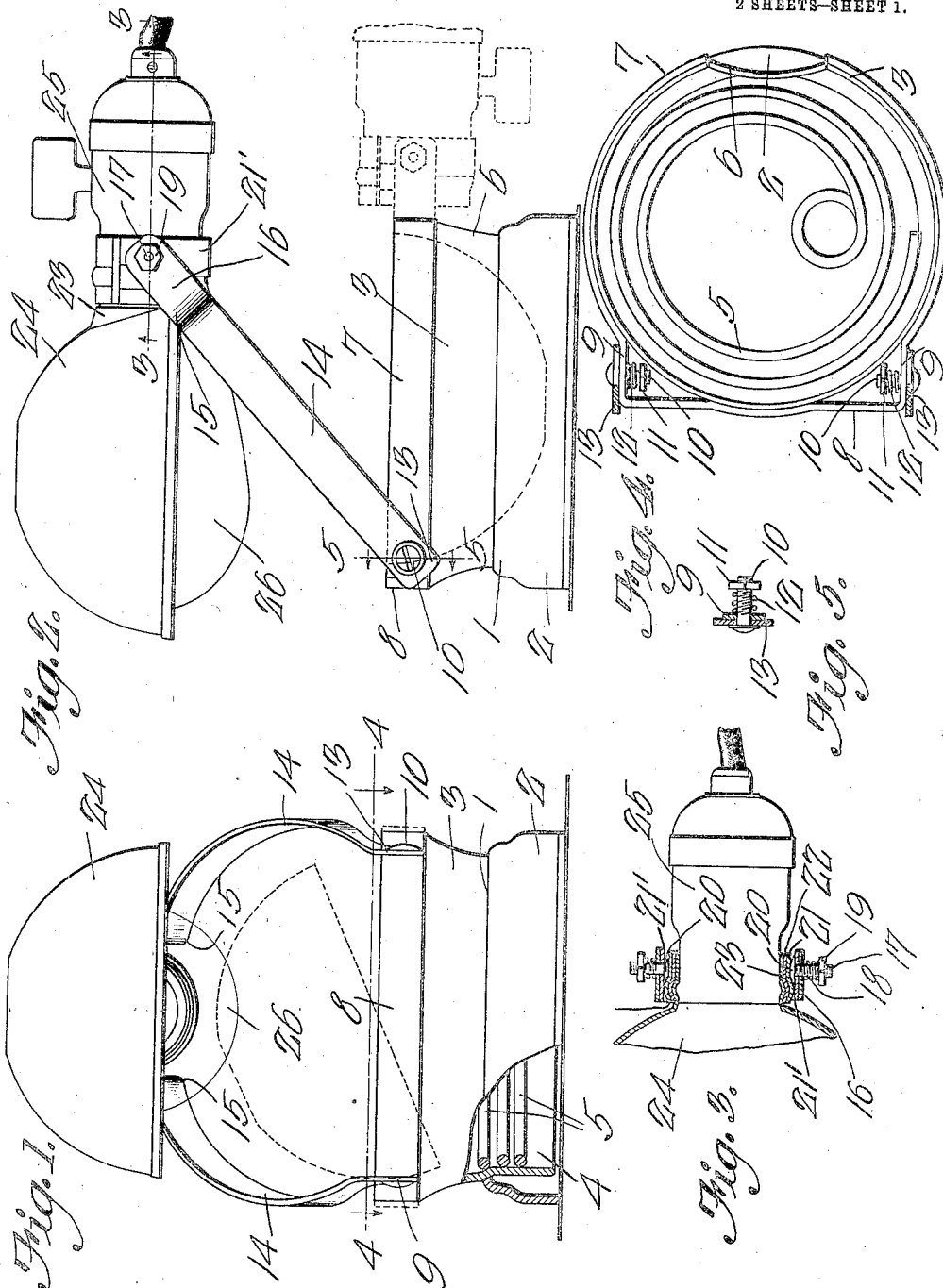


J. F. PIERCE.
ELECTRIC LIGHT STAND OR SUPPORT.
APPLICATION FILED SEPT. 29, 1911.

1,044,689.

Patented Nov. 19, 1912.

2 SHEETS—SHEET 1.



Witnesses

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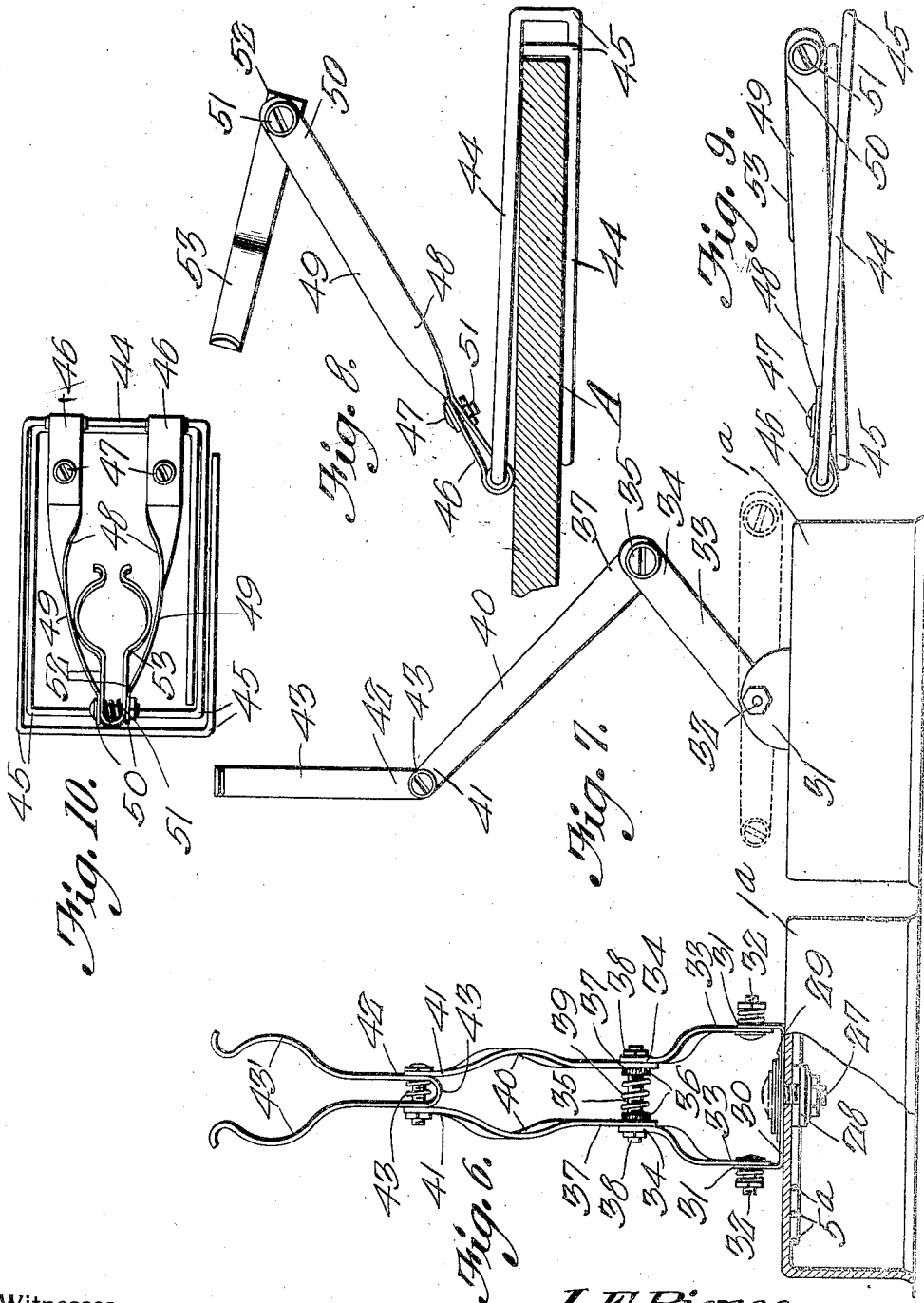
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UNITED STATES PATENT OFFICE.

JEFFERSON F. PIERCE, OF TAMPA, FLORIDA.

ELECTRIC-LIGHT STAND OR SUPPORT.

1,044,689.

Specification of Letters Patent.

Patented Nov. 19, 1912.

Application filed September 29, 1911. Serial No. 651,999.

To all whom it may concern:

Be it known that I, JEFFERSON F. PIERCE, a citizen of the United States, residing at Tampa, in the county of Hillsboro and State of Florida, have invented a new and useful Electric-Light Stand or Support, of which the following is a specification.

This invention relates to improvements in electric light stands or supports, the primary object of this invention being the provision of a stand or support adapted to receive an electric light bulb and socket in the outer end thereof, the main supporting portion of the same being a series or plurality of pivoted arms, said arms being so arranged and constructed as to permit the extension at many angles and at the same time when collapsed to nest one within the other so that the members of the arms and the bulb and socket engaging clamp will be in substantially the same plane.

A further object of this invention is the provision of a base or clamping member adapted to be engaged to any support to properly support the series of pivoted arms whose outer ends carry on electric light bulb and socket engaging and holding clamp, whereby the said socket and bulb may be detachably connected at will.

A still further object of this invention is the provision of a novel form of base whose upper end is a receptacle and to which is pivoted a series of bulb and socket engaging arms, the outer end of the arm being provided with a clamp to receive the bulb and socket of the lamp and at the same time a reflector, which is made of such a contour as to be nested when the arms are collapsed within the receptacle of the base or be rotated to form a cover for the base or a shade for the bulb when in the base.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings—Figure 1 is a front elevation of the electric bulb support or stand, a portion of the base being shown in section to show the clamping member thereof for engaging a means to support the base, the

bulb carrying arms being extended, dotted lines showing the position of the reflector when used as a cover or shade. Fig. 2 is a side elevation of the same, dotted lines showing the reflector nested within the base. Fig. 3 is a section taken on line 3—3 of Fig. 2. Fig. 4 is a section taken on line 4—4 of Fig. 1. Fig. 5 is a detailed section at the pivotal point of the base and supporting arms illustrating the spring clamp used in connection therewith. Fig. 6 is a front elevation of a modified form of support or stand. Fig. 7 is a side elevation thereof, a plurality of arms in both cases being extended, dotted lines illustrating the arms when nested. Fig. 8 is a side elevation of another modified form showing the clamping members thereof engaging a desk top. Fig. 9 is a side elevation of the support shown in Fig. 8 collapsed. Fig. 10 is a top plan view of the device illustrated in Figs. 8 and 9 nested.

Referring to the drawings, the numeral 1 designates the base which as shown in Fig. 1 comprises the lower supporting rim 2 and the upper annular receptacle 3, whose lower rim or apron 4 projects within the base rim 2 and is secured thereto, the coiled spring clamping means 5 for attaching the base to any support it being mounted within the apron 4 of the member 3 and being of a similar structure and for the same purpose as the clamping means shown in Patent No. 903,499 dated November 10, 1908.

Formed in the upper edge of the member 3 of the base at one side thereof is a recess or slot 6, while surrounding the rim and having its ends terminate at said slot 6, is the open band 7, having the comparatively straight connecting bar 8 and the two short parallel supporting arms 9 for the reception of the pivoting and clamping bolts 10, upon each of which is mounted a nut 11 and coiled spring 12 for yieldingly securing the terminals 13 of the curved arms 14 to the short arms 9 of the band 7. By this means it will be seen that the said arms 14 may be properly held at an angle as shown in Figs. 1 and 2 so that the upper curved portions provide the two parallel and straight terminals 16 to properly support the lamp bulb 25 and its reflector 24. Mounted within the terminals 16 of the arms 14 are the clamping screws 17. Each screw 17 is provided with springs similar to the bolts 10.

It is desirable that a resilient connection

for the removable reception of the lamp socket 25 and reflector 24 be provided, and to this end, the arms 14 carry the connection, as clearly shown in Figs. 2 and 3, although any form of clamping device for receiving the reflector or lamp socket may be provided.

In the present instance, the bolts 17 are passed through the terminals 16 of the arms 14, with their heads 20 disposed inside of the open ring 21', thereby providing a means whereby the open ring 21' is carried by the arms 14. The springs 18 and nuts 19 carried by the bolts 17 are disposed exteriorly of the arms 14 and exert a tension inwardly upon the heads 20 so that the open band 21 is held resiliently between the terminals 16 of the arms 14 and within the open ring 21'. By this means the collar 23 of the reflector 24 may telescopically fit within the open ring or inner clamping band 22, while the socket 25 is disposed within and concentrically of the collar 23 of the reflector. The socket 25 carries the usual incandescent bulb 26.

All the respective bands 21, 21' and 22 are nested one within the other and as they are open bands, the desired resiliency is provided to permit of the introduction of the lamp socket 25 and the collar 23 of the reflector 24 therewithin. By this means it will be noted that the reflector may be rotated to reflect the rays from the lamp to any desired angle, and that the same may be collapsed or nested within the open end of the base as shown in dotted lines in Fig. 2, or may be rotated to form a cover or shade as shown in dotted lines in Fig. 1.

In the construction as shown in Figs. 6 and 7, a base 1^a, which is in reality an inverted cup, carries a coiled spring 5^a housed therein and adapted to be extended to engage a support similar to that shown in Fig. 1, the screw 27 and its clamping plate 28 clamping the inner terminal of the said coil 5^a to the under side of the top of the casing 1^a and concentrically thereof. Exterior of the casing and concentrically thereof is a washer 29 surrounding the set screw 27 and clamping the plate 30 provided with the two eyed terminals 31 upon the top of the said base 1^a. Mounted in the eyed terminals of the plate 30 are the two spring actuated clamping and pivoting screws 32 which connect the eyed terminals of the arms 33 thereto, the outer ends or terminals 34 of the arms 33 also being eyed and pivotally and clampingly connected by means of the pin or bolt 35 carrying the spring abutting and retaining milled heads 36 to abut the inner terminal 37 of the intermediate arms provided with the central bulged portion 40, the purpose of which will presently appear. The nuts or other retaining means 38 mounted upon the extreme

ends of the screw or pin 35 retain the terminals of said arms in proper relative position and provide a means whereby the said arms may be retained in any position, or either extended, partially extended, collapsed or nested, the spring 39 disposed in the intermediate portion of the pivot pin 35 and retaining the retaining nuts or heads 36 against the inner face of the terminals 37.

The upper terminals 41 of the arms 40 are pivoted by means of the spring clamping device 43 to the terminals 42 of the lamp socket receiving arms 43', the bulb portion of the socket receiving arms 43' being so disposed that when nested they will pass between the bulged portion at 40, while said bulb portion when collapsed will fit within the terminals 31 of the plates 30 and permit the respective members of the supports to be nested in the same plane.

In the construction as shown in Figs. 8, 9 and 10, the coiled spring carrying base is dispensed with, and a series of rectangular in plan coils 44 having the rectangular bends 45 is provided, the same being so constructed as to be extended in many shapes to grip the top and bottom sides of a table or desk lid as at A in Fig. 8, and thereby retain the lamp bulb supporting arms in the desired positions. Pivoted to the upper coil are the clamping terminals 46 by means of the clamping nuts 47, the curved or bent portions 48 providing the arms 49 at right angles to the plane of the clamping portion 46, while carried in the eyed terminals of the arms 49 are connected through means of the spring actuated clamping nut 51 to the eyed terminal 52 of the socket receiving and clamping arm 53, the portion 49 of the arms being bowed as shown in Fig. 10 so that the bowed portion of the clamp 53 may be nested therein, as clearly shown in Fig. 10 and thus follow out the same principle of the invention as shown in the other views, that is the nesting of the socket receiving clamp within the same plane as the supporting arms. It is evident that a series of these arms may be used and the number increased or diminished as desired to produce the proper extension, and that by means of the clamping means 5, 5^a and 44, the respective supports or stands may be secured upon many objects and at various angles, to provide a means for supporting a lamp bulb, with or without a reflector and at any desired angle for reading in a sitting, reclining or lying position.

By constructing an extension arm or bracket for supporting detachably a lamp socket and bulb, without its reflector, the arms may be collapsed to occupy a very small amount of space, and by providing a means for clamping the said arms, and form of supporting means, as for instance a bed post, desk or table top, or back of a

chair, may carry the device and the same may be readily placed in operable position or out of the way when not in use, this device being an attachment for any form of flexibly connected electric light bulb.

By means of the peculiar clamping attachment at the lamp socket and reflector as shown in Figs. 1, 2, 3 and 4, the reflector may be rotated within the clamp 22', without affecting the lamp and socket, that is the reflector's collar 23 is permitted a rotary movement within the clamp 22, and about the socket 25, without rotating the socket.

What is claimed is:

1. An electric light stand having a support, two spaced arms, each having one end pivoted to the support, and a lamp socket carrying clamp pivoted to the upper ends of the arms, whereby the clamp and arms when collapsed will be nested, the clamp within the arms.

2. An electric light bulb support having a plurality of arms pivoted together, a base connected to one free end of the arms, and a bulb engaging clamp connected to the other free end of the arms, said clamp nesting within the arms when collapsed.

3. An electric light bulb support, having a base, a plurality of arms pivotally secured together and having one free end thereof pivoted to the base, said arms adapted when collapsed to span the base, and a bulb clamp carried at the other free end of the arms.

4. An electric light bulb support, having a base, a plurality of arms pivotally secured together and having one free end thereof pivoted to the base, said arms being adapted when collapsed to span the base, and a reflector swiveled to the other terminal of the arms and adapted when the arms are collapsed to nest within the base.

5. An electric light bulb support, having a base, a plurality of arms pivotally secured together and having one free end thereof pivoted to the base, said arms being adapted to be collapsed to span the base, a reflector swiveled to the other free end of the arms and adapted when collapsed to nest within the base or be rotated to provide a cover or a shade for the base.

6. An electric light bulb support, having a base, a plurality of arms hingedly secured together and having one free end thereof pivoted to the base, said arms being adapted to be collapsed to span the base, a reflector swiveled to the other terminal of the arms and adapted when collapsed to nest within the base, and a bulb clamp adjacent to the reflector and carried by the outer free end of the arms.

7. An electric light bulb support, having a base, a plurality of arms hingedly secured together and having one free end thereof pivoted to the base, said arms being adapted

when collapsed to span the base, a reflector swiveled to the other terminal of the arms and adapted when collapsed to nest within the base or be turned to provide a cover or shade for the base, and a bulb clamp adjacent to the reflector and carried by the outer free end of the arms.

8. An electric light bulb support, having a base, a plurality of pivoted arms having one free end thereof pivoted to the base, and capable of being nested, a bulb clamp carried at the outer free end of the arms, and a clamping member housed by the base and arranged to engage a support.

9. An electric light bulb support having a base, a plurality of pivoted arms having one free end thereof pivoted to the base and capable of being nested, a bulb clamp carried at the outer free end of the arms, and a coiled spring housed by the base and forming a clamp to engage a support.

10. An electric light bulb support having a base, a plurality of arms the outer free end of which is a bulb receiving and carrying clamp, and the inner free end of which is pivoted to the base, said arms being adapted to be collapsed and nested in the same plane, and a coiled spring housed by the base and forming a clamp to engage a support.

11. An electric bulb support having a base, a plurality of pivoted arms having one free end thereof pivoted to the base and capable of being nested, a bulb clamp carried at the outer free end of the arms, and a coiled spring housed within the base and adapted to be extended to engage a support.

12. An electric light bulb support having a base, a plurality of arms the outer free end of which is a bulb receiving and carrying clamp, and the inner free end of which is pivoted to the base, said arms being adapted to be collapsed and nested in the same plane, and a coiled spring housed within the base and adapted to be extended to engage a support.

13. An electric light bulb support having a plurality of pivoted arms, a bulb receiving clamp carried by the outer free end of the arms and adapted when collapsed to occupy a space within the same plane as the arms, and means for attaching the arms to a support pivoted to the other free end of the arms.

14. An electric light bulb support having a plurality of pivoted arms, a bulb receiving clamp carried by the outer free end of the arms and adapted when collapsed to occupy a space within the same plane as the arms, and a clamp to engage a support connected to the other free end of the arms.

15. An electric light bulb support having a plurality of pivoted arms, a bulb receiving clamp carried by the outer free end of the arms and adapted when collapsed to

be nested within the arms, and a spring actuated clamp attached to the other free end of the arms and adapted to engage a support.

5 16. An electric light bulb support, having a base formed with a receptacle, a pair of arms the lower free end of which is hingedly connected exteriorly of the base and adapted when folded to straddle the
10 outer portion of the mouth of the base, a reflector, said reflector being adapted to receive a bulb, and a clamp carried in the outer free end of said arms and adapted to engage said reflector at its junction with
15 the bulb, whereby when the arms are collapsed, the reflector will meet within the receptacle of the base.

17. An electric light bulb support, having a base formed with a receptacle, a pair
20 of arms, the inner free end of which is hingedly connected exteriorly of the base and adapted when folded to straddle the outer portion of the mouth of the base, a reflector, said reflector being adapted to receive a bulb, and a clamp carried in the
25 outer free end of said arms adapted to engage said reflector at its junction with the bulb, whereby when the arms are collapsed the reflector will nest within the receptacle of the base, or may be turned within the clamp to provide a cover or
30 shade for the receptacle of the base.

18. An electric light bulb support, having
35 a base formed with a receptacle, a pair of arms the inner free ends of which are hingedly connected exteriorly of the base and adapt-

ed when folded to straddle the outer portion of the mouth of the base, a reflector, said reflector being adapted to receive a bulb, a clamp carried in the outer free end
40 of said arms and adapted to engage said reflector at its junction with the bulb, whereby when the arms are collapsed, the reflector will nest within the receptacle of the base, and a coiled spring mounted within
45 the base and adapted to be extended to engage a support.

19. An electric light bulb support, having a base formed with a receptacle, a pair
50 of arms the inner free end of which is hingedly connected exteriorly of the base and adapted when folded to straddle the outer portion of the mouth of the base, a reflector, said reflector being adapted to receive a bulb, a clamp carried in the outer
55 free end of said arms adapted to engage said reflector at its junction with the bulb, whereby when the arms are collapsed the reflector will nest within the receptacle of the base, or may be turned within the clamp
60 to provide a cover or shade for the receptacle of the base, and a coiled spring mounted within the base and adapted to be extended to engage a support.

In testimony that I claim the foregoing
65 as my own, I have hereto affixed my signature in the presence of two witnesses.

JEFFERSON F. PIERCE.

Witnesses:

FRANK B. OCHSENREITER.
I. E. SIMPSON.