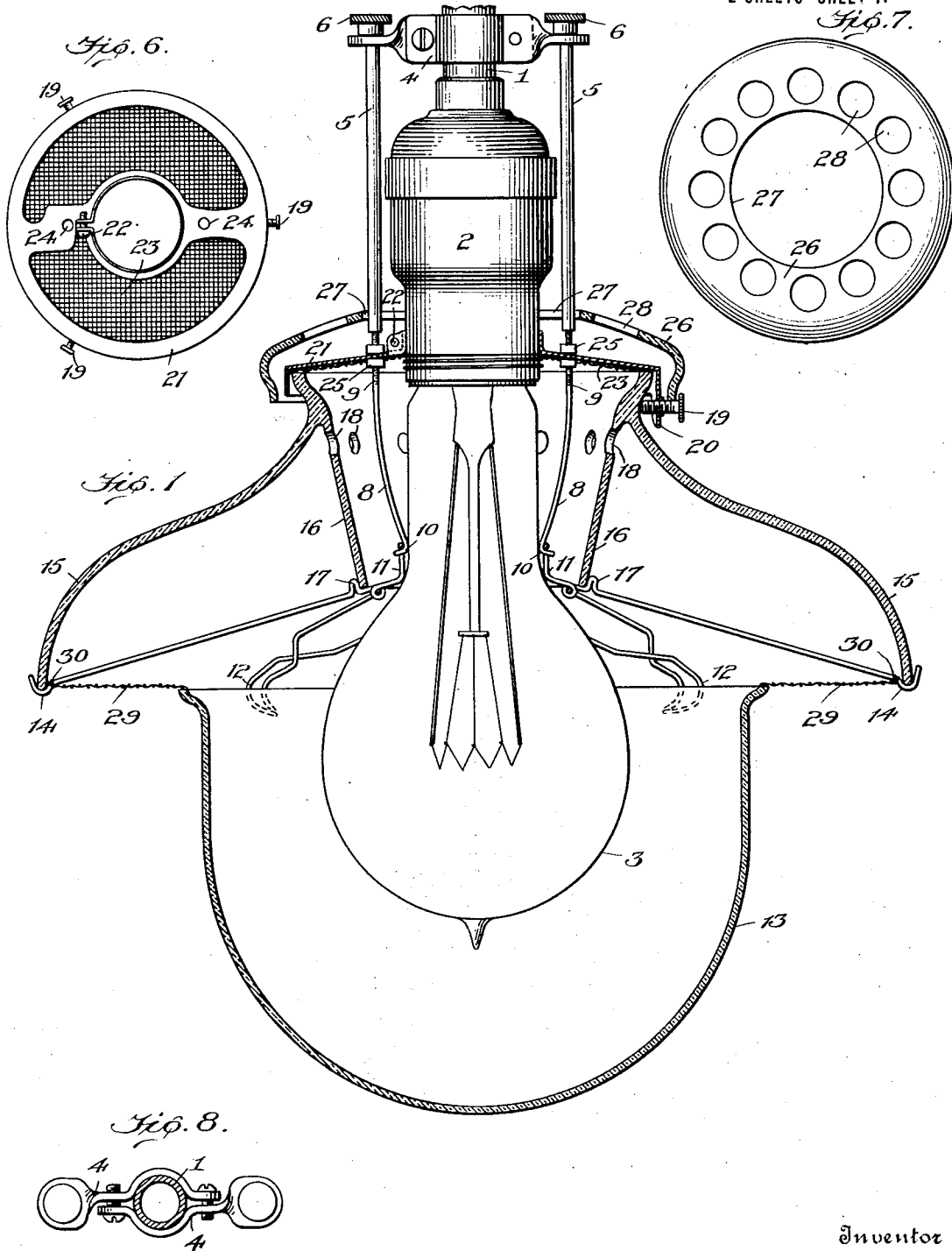


J. T. THOMPSON.
LIGHTING FIXTURE.
APPLICATION FILED FEB. 18, 1919

1,340,261.

Patented May 18, 1920.

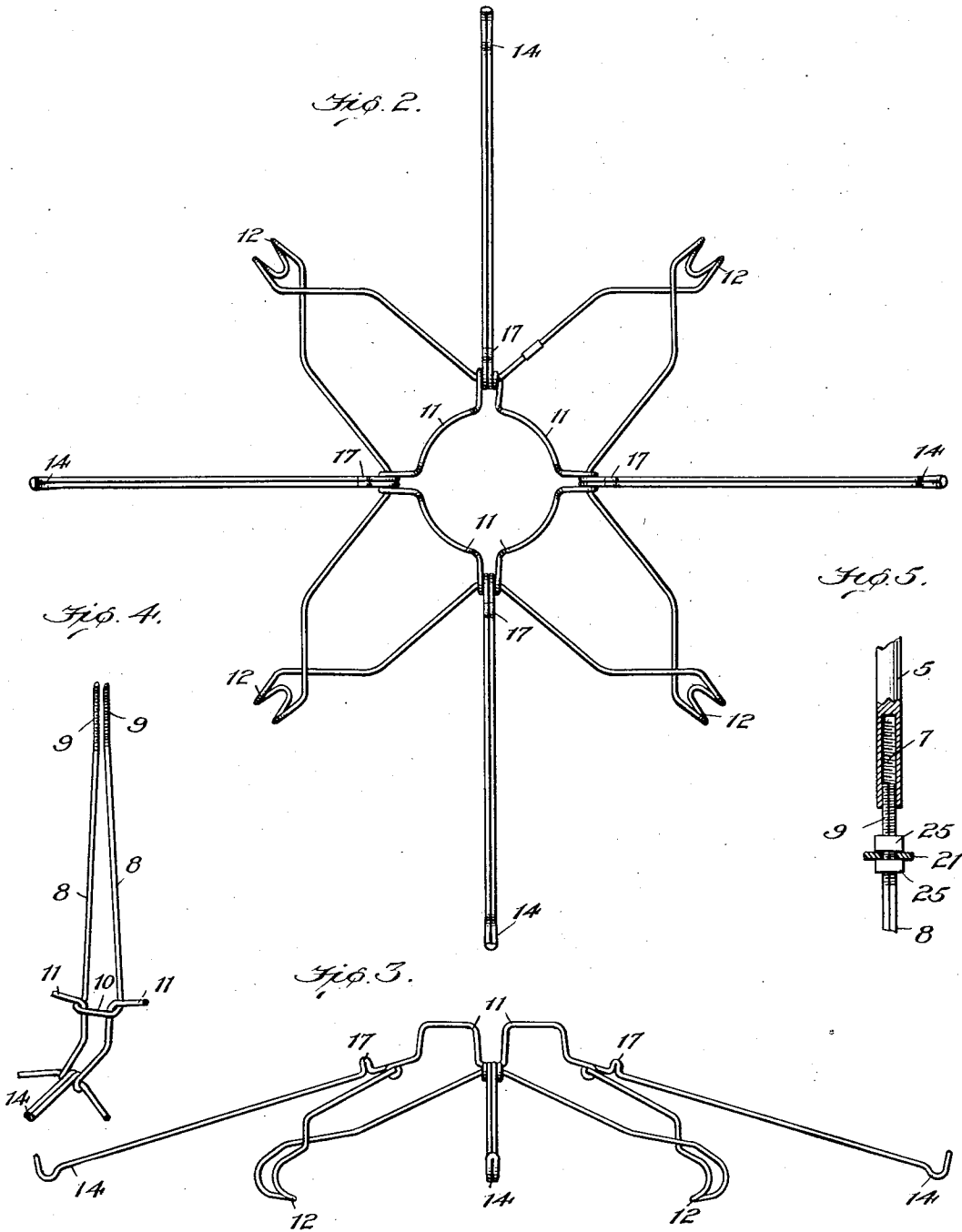
2 SHEETS—SHEET 1.



Inventor

James T. Thompson

By Edwin L. Bradford
Attorney



Inventor

James T. Thompson

By Edwin L. Bradford
Attorney

UNITED STATES PATENT OFFICE.

JAMES T. THOMPSON, OF WASHINGTON, DISTRICT OF COLUMBIA.

LIGHTING-FIXTURE.

1,340,261.

Specification of Letters Patent. Patented May 18, 1920.

Application filed February 18, 1919. Serial No. 277,759.

To all whom it may concern:

Be it known that I, JAMES T. THOMPSON, a citizen of the United States, residing at Washington, District of Columbia, have invented certain new and useful Improvements in Lighting-Fixtures, of which the following is a specification.

This invention relates to illuminating and lighting fixtures generally, but is designed and intended more especially for use in connection with semi-indirect lighting systems, and comprises a novel form of bowl-support and shade-holder combined.

It has for an object the production of an exceedingly attractive and highly ornamental fixture of the character indicated, which is comparatively inexpensive to manufacture, simple in construction, and as a consequence easily assembled, or dismantled, by either skilled or unskilled persons, for purposes of cleaning, repairing, or for replacing lamps therein.

A further object is the production of fixtures wherein the glass-ware or shade and bowl elements are formed of independent separable sections, thereby facilitating repairs in case of breakage by the mere substitution of parts.

A further object of the invention is the provision of means for insuring a most efficient distribution of light, and reflection thereof in a downward direction.

A further object is that of providing a lighting fixture with a ventilating chimney preferably formed integral with the shade member, the same being arranged and adapted to induce an upward current of air for cooling, ventilating and clarifying purposes through top of the fixture.

A further object is the production of a light, durable and compact, self-contained fixture wherein the several cooperating parts are assembled and combined in a novel and unusually effective manner.

With the foregoing and other objects and advantages in view, the invention will be hereinafter particularly described and later pointed out by the appended claims.

In the accompanying drawings which form part of this application for Letters Patent, and whereon corresponding numerals refer to like parts in the several views:

Figure 1 is a vertical sectional view taken through the invention centrally, an ordinary

incandescent lamp and lamp socket being here shown in full lines.

Fig. 2, is a top plan view of a combined wire shade and bowl holder detached,

Fig. 3 is a side elevation of parts shown by Fig. 2, also detached,

Figs. 4 and 5 are fragmentary detached views in side elevation, showing portions of said holder,

Figs. 6 and 7, are top plan views of the shade holder elements, and

Fig. 8, is a top plan view of a yoke or coupling from which the entire fixture may be suspended.

Reference being had to the accompanying drawings and numerals thereon, 1, indicates a tubular hanger, 2 an ordinary electric lamp socket secured to said hanger, and 3 an electric lamp of any approved type. Surrounding hanger 1 above the said socket is a horizontal two part yoke 4 removably secured in place by means of set screws as shown. The oppositely disposed flattened ends of said yoke 4 are perforated, and through these perforations in a downward direction, parallel with the lamp socket, and with themselves, is a pair of suspending rods 5 having enlarged knurled upper ends 6, and each threaded interiorly as at 7, Fig. 5.

Into each of the said threaded apertures 7 is screwed a looped hanger 8 preferably made of wire, the upper converging ends thereof being flattened upon one side so that when brought together the two combined are substantially circular in cross section and upon these portions of each of said looped hangers threads 9 are formed as shown by Figs. 1 and 5. The said hangers 8 when thus introduced into the lower ends of rods 5 are diametrically opposite each other, and as will be seen by Fig. 1 they by preference converge collectively until their extreme lower and looped ends 10 find a bearing upon the neck of lamp 3 as shown by Fig. 1.

In the looped lower ends 10 of both hangers 8 are supported a combined expanding ring, bowl and shade support, preferably of unitary construction, and of relatively stiff wire, the same in practice being suspended immediately below said hangers and occupying substantially a horizontal position, there being an expanding ring 11 for completely embracing the neck of the lamp 3, a series of hooked terminals 12 for engaging a surrounding flange on bowl 13,

and a second series of intermediate hooks 14 for similarly engaging and supporting a shade 15.

The said shade 15 is preferably made of translucent glass, and near its upper open end is formed with an inwardly and centrally converging annular flue 16 having its lower edge positioned and centered by raised loops 17 upon the shade supporting members or hooks 14, and having its upper edge perforated by a series of vent holes 18 for purposes which will later appear.

In addition to the support for shade 15 afforded by the hook supports 14, and also by the surrounding ring 11, it is also supported by means of set screws 19, passing through the downturned flange 20 of an ordinary shade holder 21, clamped onto socket 2 by means of its set screw 22. This shade holder 21 has substantially an open top as clearly shown by Fig. 6, and does not differ materially from those in common use except that it is covered by a fine wire screen 23, is perforated at 24, 24, to permit passage of hangers 8 as shown by Fig. 1, and is adjustably secured upon the threaded portions of said hangers by nuts 25, 25, upon opposite sides thereof.

Immediately above said shade holder 21 there is provided an inverted cup shaped cover 26, of either translucent or opaque material adapted to rest upon screws 19 as indicated by Fig. 1, perforated centrally as at 27 to surround the socket 2 and suspending rods 5, and perforated also as at 28 for ventilating purposes.

Between the shade 15 and bowl 13 is interposed an annulus of fine wire screen 29 to further guard against and prevent the entrance of bugs or insects to the interior of the fixture, and this screen is secured to the outer portion of the wire supports 14 as at 30.

The use, operation, and at least some of the advantages of the hereinbefore described fixture will be quite apparent to persons skilled in the art to which this invention relates. It may be noted, however, that by the present arrangement and combination of parts the bowl of the fixture is supported from a point above and independent of the lamp socket, it is also supported by the shade holder and also from the lamp itself or by either of said means.

It will also be particularly noted that a draft or upwardly moving ventilating current is produced by the heat of the lamp in conjunction with the flue 16 which tends to maintain a lower temperature so far as the lamp and adjacent glass-ware are concerned, thus contributing to the length of service as well as the general efficiency of lamps employed. It is a well-known fact that one of the greatest causes of loss of candle power from a burning electric lamp is a fine im-

palpable powder which settles upon and becomes burned into the pores of the glass. The upward draft or current of heated air aforesaid constantly carries off dust particles which might otherwise lodge upon the surface of the lamp with the objectionable results before mentioned.

It will also be noted that the gauze wire screens 22 and 29 effectually prevent the entrance of foreign matter, bugs and gnats, which otherwise might choke the bowl, surround the lamp and greatly reduce the efficiency of the fixture, if indeed such foreign matter did not cause overheating, or short circuit the current.

It will be observed also that because of the peculiar construction and arrangement of the supporting elements of this invention the bowl 13 as also the shade 15 may be wholly supported from the yoke 4 above socket 2, from the shade holder 21, or from the lamp 3 itself, or by said several means collectively as shown.

Having thus described my invention, what I now claim and desire to secure by Letters Patent is:

1. A semi-indirect lighting fixture including in combination a lamp, a shade and bowl collectively inclosing said lamp, a supporting yoke secured above the lamp socket, rods depending from said yoke, a shade holder carried by said rods, an expansion ring surrounding the neck of the lamp, and hook members radiating from said ring and engaging the edges of the shade and bowl elements aforesaid.

2. A semi-indirect lighting fixture including in combination a lamp, a shade and bowl collectively inclosing said lamp, a supporting yoke secured above the lamp socket, rods depending from said yoke, a shade holder carried by said rods, hangers depending from each of said rods, an expansion ring surrounding the lamp and supported at opposite points by the hangers aforesaid, and hook members radiating from said ring and engaging the edges of the shade and bowl elements aforesaid.

3. A semi-indirect lighting fixture including in combination a lamp, a shade and bowl collectively inclosing said lamp, a supporting yoke secured above the lamp socket, rods depending from said yoke, a shade holder carried by said rods, a gauze screen covering the surface of said holder, a combined shade and bowl support depending from the rods aforesaid, and a second gauze screen interposed between the outer edges of said bowl and shade elements.

4. A lighting fixture including in combination a lamp, a substantially open-top shade-holder, a screen covering said open top, and a shade supported by said holder having an integral concentrically positioned flue surmounting the upper portion of said

lamp, said flue being provided with a series of perforations near its upper edge in substantial alinement with the open top of said shade holder.

5 5. A lighting fixture including in combination a lamp, a substantially open-top shade-holder, a screen covering said open top, a shade supported by said holder having an integral concentrically positioned flue
10 surmounting the upper portion of said lamp, said flue being provided with a series of perforations near its upper edge in substantial alinement with the open top of said
15 shade holder, a bowl inclosing the lower portion of said lamp concentrically positioned with relation to said shade, and an annular screen connecting said bowl and shade members.

6. A lighting fixture comprising a unitary combined shade and bowl holder of spider 20 formation having a double series of radial arms for supporting a shade and a bowl respectively, the arms of each of said series terminating in substantially the same plane.

7. A lighting fixture comprising a unitary 25 combined shade and bowl holder of spider formation, having an expansible ring for engaging the neck of an electric lamp, and a double series of radial arms for supporting a lamp shade and bowl respectively, the arms 30 of each of said series terminating in substantially the same horizontal plane and in different concentric circles.

In testimony whereof I affix my signature.

JAMES T. THOMPSON.