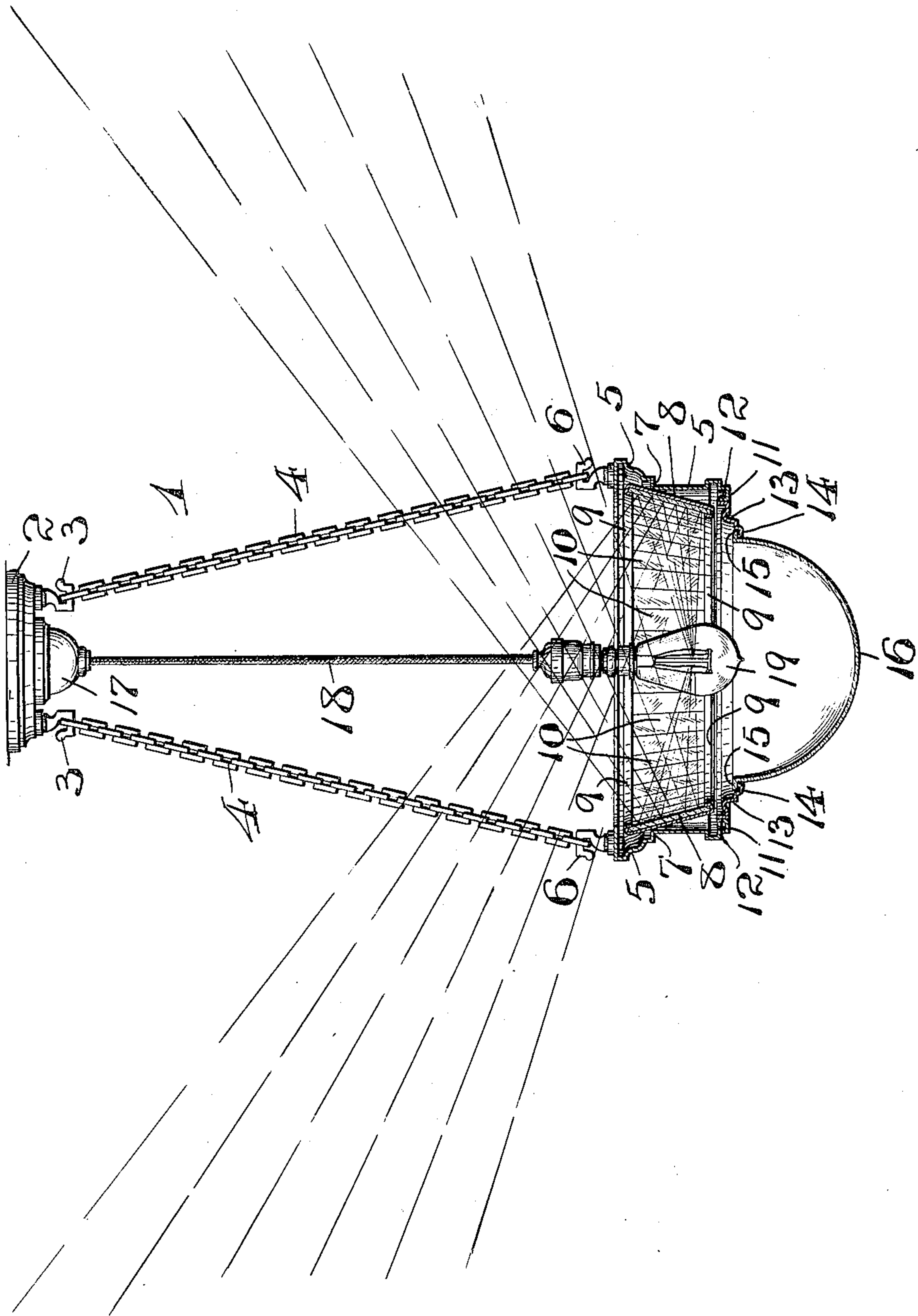


W. H. SPENCER.
REFLECTING FIXTURE OR CHANDELIER.
APPLICATION FILED DEC. 27, 1910.

990,400.

Patented Apr. 25, 1911.



WITNESSES:
Fredk M. W. Fraentzel
Harry E. Pfeiffer

INVENTOR:
William H. Spencer,
BY
Fraentzel and Richards,
ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM H. SPENCER, OF NEW YORK, N. Y., ASSIGNOR TO GEORGE FRINK SPENCER,
OF NEWARK, NEW JERSEY.

REFLECTING FIXTURE OR CHANDELIER.

990,400.

Specification of Letters Patent.

Patented Apr. 25, 1911.

Application filed December 27, 1910. Serial No. 599,472.

To all whom it may concern:

Be it known that I, WILLIAM H. SPENCER, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Reflecting Fixtures or Chandeliers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

The present invention relates, generally, to improvements in reflecting fixtures or chandeliers adapted to be used for illuminating purposes; and, this invention refers, more particularly, to a reflecting fixture or chandelier which is of such novel construction that a combination of direct and indirect illumination is produced.

The invention has for its principal object to provide a novel construction of reflecting fixture or chandelier provided with a reflecting means adapted to throw the maximum light-flux at the greatest distance upon the ceiling of the room to be illuminated, thus producing an evenly diffused light upon the ceiling, without spots; the reflecting fixture or chandelier being, furthermore, constructed to reveal the light source to permit a proportion of the direct light-rays to enter the room, and thereby eliminating the hollow unnatural appearance of rooms which are entirely lighted by means of indirect illumination.

Other objects of the present invention not at this time more particularly enumerated, will be clearly understood from the following detailed description of the present invention.

With the various objects of my present invention in view, the said invention consists, primarily, in the novel reflecting fixture or chandelier hereinafter set forth; and, furthermore, this invention consists in the novel arrangements and combinations of the various parts of the fixture, as well as in the details of the construction thereof, all of which will be hereinafter more fully described, and then finally embodied in the

clauses of the claim which are appended to and which form an essential part of this specification.

The invention is clearly illustrated in the accompanying drawing, in which the said novel construction of reflecting fixture or chandelier, made according to and embodying the principles of the present invention, is shown partly in elevation and partly in vertical section.

The reference-characters employed in the said drawing indicate the various parts of a reflecting fixture or chandelier showing one embodiment of the principles of the present invention.

Referring now to said drawing, the reference-character 1 indicates one form of complete reflecting fixture or chandelier, made according to and embodying the principal feature of the present invention, the same comprising a ceiling-fixture 2, of any desirable form, and ornamented in any desirable manner. Said ceiling fixture 2 is provided with a plurality of suspension hooks 3, or similar devices, adapted to provide a means for attaching to said ceiling-fixture 2 suitable suspension means 4, such as chains or the like, which are adapted to support or suspend in proper position, a chandelier body 5. The said chandelier body 5 is open at the top and bottom and is also provided with a proper number of suspension hooks 6, or similar devices, by means of which the said chandelier body 5 is properly connected with said suspension means 4. Said chandelier-body 5 is also provided with an inwardly projecting shoulder 7, adapted to serve as a support for a reflector-carrying-ring 8, said reflector-carrying ring 8 being constructed in such a manner, that its walls incline or flare outwardly from the bottom marginal edges and upwardly to the upper marginal edges. The said bottom and top marginal edges of the said reflector-carrying ring 8 are formed with turned-over portions 9 adapted to provide receiving grooves or sockets for retaining against the inner sides of the walls of said reflector-carrying ring 8 a series of reflector-plates 10. The said reflector-plates 10 are preferably made of silvered glass, and may be smooth or corrugated, as desired. The chandelier-body is provided at its lower marginal edge with an

annular flange 11 preferably provided with a shoulder 12, and secured, in any suitable manner, to said shoulder 12 is an annular ring 13, which is provided at its inner edge with a seat-like portion 14 adapted to receive and support thereon the supporting rim or rib 15 of a translucent glass bowl or globe 16, which is adapted to be thus suspended so as to project beneath said chandelier-body 5. The said ceiling-fixture 2 is provided with a centrally disposed shell 17 with which is connected the means 18 for suspending a lighting unit 19 comprising one or more lamps, which, if the same are of the electric type, may be provided with wiring carried by said suspension means 18. Said lighting unit is thus suspended within said reflector-carrying ring 8 and its reflector-plates 10. As thus constructed, the reflecting fixture or chandelier is adapted to so control the direct light-rays of the lighting unit, that the light rays are redirected by means of the said reflector-plates 10 through the open top of said chandelier-body 5, thereby creating a flux of light which travels in the inclined lines, indicated in the drawing, from all sides of said reflecting fixture or chandelier, so as to thereby illuminate the ceiling over a large area, and at approximately great distances, with an evenly diffused light devoid of spots. The chandelier-body 5 being also open at the bottom permits the direct rays of said illuminating unit to enter the room, thereby increasing the brilliancy of the interior illumination as a whole and eliminating the unnatural and hollow appearance which results from the use of indirect lighting alone. Said chandelier-body 5 being further provided across its bottom opening with the translucent glass bowl or globe 16, the direct light-rays are softened and diffused to maintain the proper illuminating tone, whereby the direct and indirect light-rays combine together to produce a more perfect and satisfactory illumination.

I am aware that changes may be made in the general arrangements and combinations of the devices and parts, as well as in the details of the construction of the same, without departing from the scope of the present invention, as set forth in the foregoing specification, and as defined in the claims appended thereto. Hence, I do not limit my invention to the exact arrangements and combinations of the devices and parts described in the said specification, nor do I confine myself to the exact details of the construction of the said parts as illustrated in the accompanying drawings.

I claim:—

1. A reflecting fixture or chandelier comprising a chandelier-body open at the top and bottom, means for suspending the same, a reflector-member arranged within said

chandelier-body for directing light-rays upwardly and outwardly from within said chandelier-body, a lighting unit, and means for suspending said lighting unit within said chandelier-body, substantially as and for the purposes set forth.

2. A reflecting fixture or chandelier comprising a chandelier-body open at the top and bottom, means for suspending the same, a reflector-member arranged within said chandelier-body for directing light-rays upwardly and outwardly from within said chandelier-body, a lighting unit, means for suspending said lighting-unit within said chandelier-body, a light diffusing globe member connected with the lower open end of said chandelier-body, substantially as and for the purposes set forth.

3. A reflecting fixture or chandelier comprising a chandelier-body open at the top and bottom, means for suspending the same, a reflector-carrying ring the walls of which incline outwardly from the bottom and upwardly, said ring being supported within said chandelier-body, a series of reflector-plates arranged upon the walls of said reflector-carrying ring so as to direct light-rays upwardly and outwardly from within said chandelier body, a lighting unit, and means for suspending said lighting unit within said chandelier-body, substantially as and for the purposes set forth.

4. A reflecting fixture or chandelier comprising a chandelier-body open at the top and bottom, means for suspending the same, a reflector-carrying ring the walls of which incline outwardly from the bottom and upwardly, said ring being supported within said chandelier-body, a series of reflector-plates arranged upon the walls of said reflector-carrying ring so as to direct light-rays upwardly and outwardly from within said chandelier-body, a lighting unit, means for suspending said lighting unit within said chandelier-body, a light-diffusing globe member connected with the lower open end of said chandelier-body, substantially as and for the purposes set forth.

5. A reflecting fixture or chandelier comprising a chandelier-body open at the top and bottom, means for suspending the same, a reflector-carrying ring the walls of which incline outwardly from the bottom and upwardly, said ring being supported within said chandelier-body, a series of reflector-plates arranged upon the walls of said reflector-carrying ring so as to direct light-rays upwardly and outwardly from within said chandelier-body, a lighting unit, means for suspending said lighting unit within said chandelier-body, an annular ring connected with the lower marginal edge of said chandelier-body, said ring being formed with a seat, and a globe-like member, said member being adapted to be supported

across the lower open end of said chandelier-body by means of said seat, substantially as and for the purposes set forth.

5 6. A reflecting fixture or chandelier comprising a chandelier-body open at the top and bottom, a ceiling fixture, means for suspending said chandelier-body from said ceiling-fixture, a reflector member arranged within said chandelier-body for directing
10 light-rays upwardly and outwardly from within said chandelier-body, a lighting unit, and means for suspending said lighting unit from the ceiling-fixture and within said chandelier-body, substantially as and
15 for the purposes set forth.

7. A reflecting fixture or chandelier comprising a chandelier-body open at the top and bottom, a ceiling fixture, means for suspending said chandelier-body from said
20 ceiling-fixture, a reflector-member arranged within said chandelier-body for directing light-rays upwardly and outwardly from within said chandelier-body, a lighting unit, means for suspending said lighting unit
25 from the ceiling-fixture and within said chandelier-body, a light-diffusing globe member connected with the lower open end of said chandelier-body, substantially as and for the purposes set forth.

30 8. A reflecting fixture or chandelier comprising a chandelier-body open at the top and bottom, a ceiling-fixture, means for suspending said chandelier-body from said ceiling-fixture, a reflector-carrying ring the
35 walls of which incline outwardly from the bottom and upwardly, said ring being supported within said chandelier-body, a series of reflector-plates arranged upon the walls of said reflector-carrying ring so as to direct
40 light-rays upwardly and outwardly from within said chandelier-body, a lighting-unit, and means for suspending said lighting-unit from said ceiling-fixture and within said chandelier-body, substantially as
45 and for the purposes set forth.

9. A reflecting fixture or chandelier com-

prising a chandelier-body open at the top and bottom, a ceiling-fixture, means for suspending said chandelier-body from said ceiling-fixture, a reflector-carrying ring the
50 walls of which incline outwardly from the bottom and upwardly, said ring being supported within said chandelier-body, a series of reflector-plates arranged upon the walls of said reflector-carrying ring so as to
55 direct light-rays upwardly and outwardly from within said chandelier-body, a lighting-unit, means for suspending said lighting-unit from said ceiling fixture and within said chandelier-body, a light-diffusing globe
60 member connected with the lower open end of said chandelier-body, substantially as and for the purposes set forth.

10. A reflecting fixture or chandelier comprising a chandelier-body open at the top
65 and bottom, a ceiling-fixture, means for suspending said chandelier-body from said ceiling-fixture, a reflector-carrying ring the walls of which incline outwardly from the bottom and upwardly, said ring being sup-
70 ported within said chandelier-body, a series of reflector-plates arranged upon the walls of said reflector-carrying ring so as to direct light-rays upwardly and outwardly from within said chandelier-body, a light-
75 ing-unit, and means for suspending said lighting-unit from said ceiling-fixture and within said chandelier-body, an annular ring connected with the lower marginal edge of said chandelier-body, said ring be-
80 ing formed with a seat, and a globe-like member, said member being adapted to be supported across the lower open end of said chandelier-body by means of said seat, substantially as and for the purposes set forth. 85

In testimony that I claim the invention set forth above I have hereunto set my hand this 14th day of December, 1910.

WILLIAM H. SPENCER.

Witnesses:

ALBERT P. BENITO,
CHAS. K. WYATT.