

No. 704,711.

Patented July 15, 1902.

J. A. CARLSTEDT.

COMBINED REFLECTOR OR LAMP SHADE AND COLLAR.

(Application filed July 28, 1900.)

(No Model.)

2 Sheets—Sheet 1.

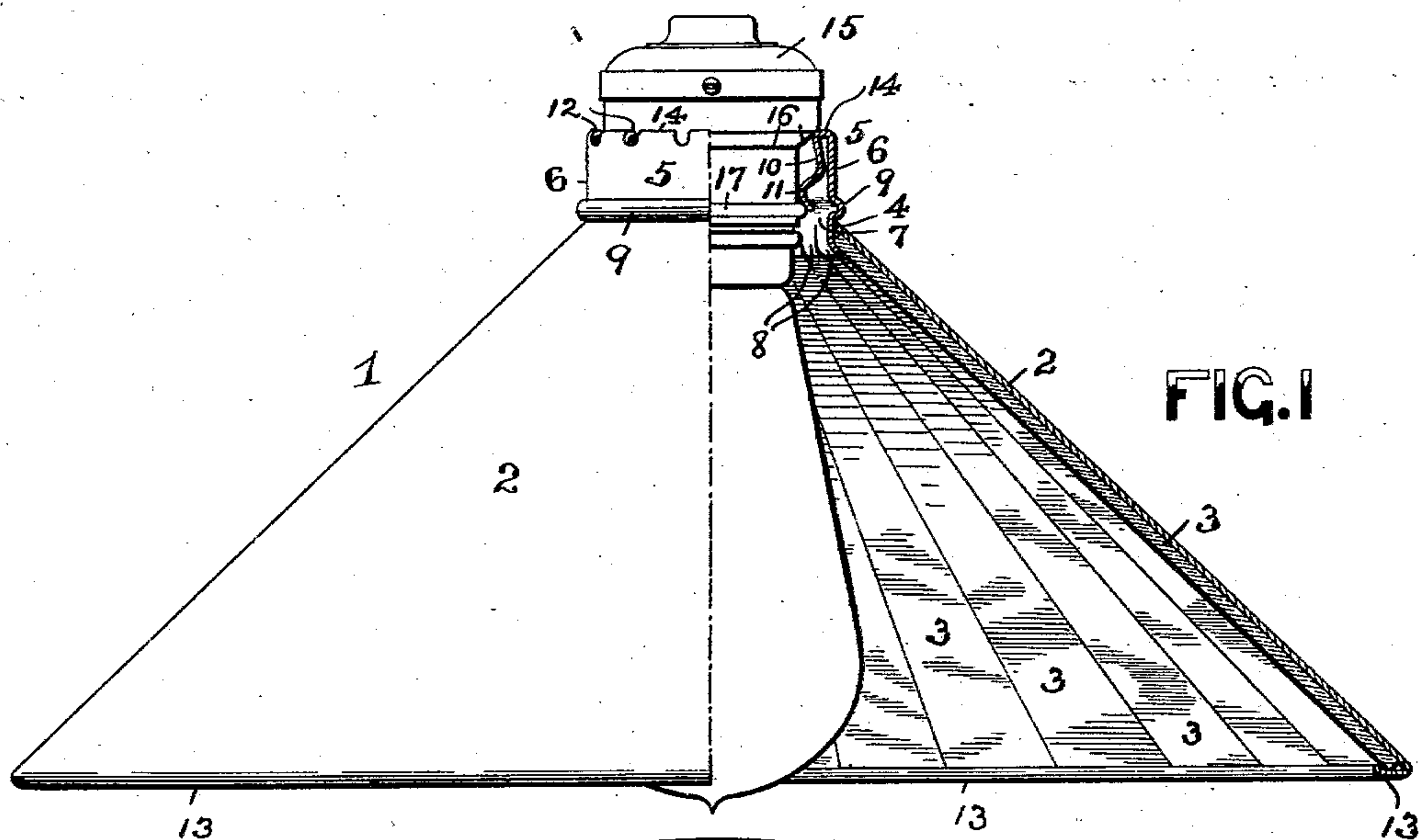
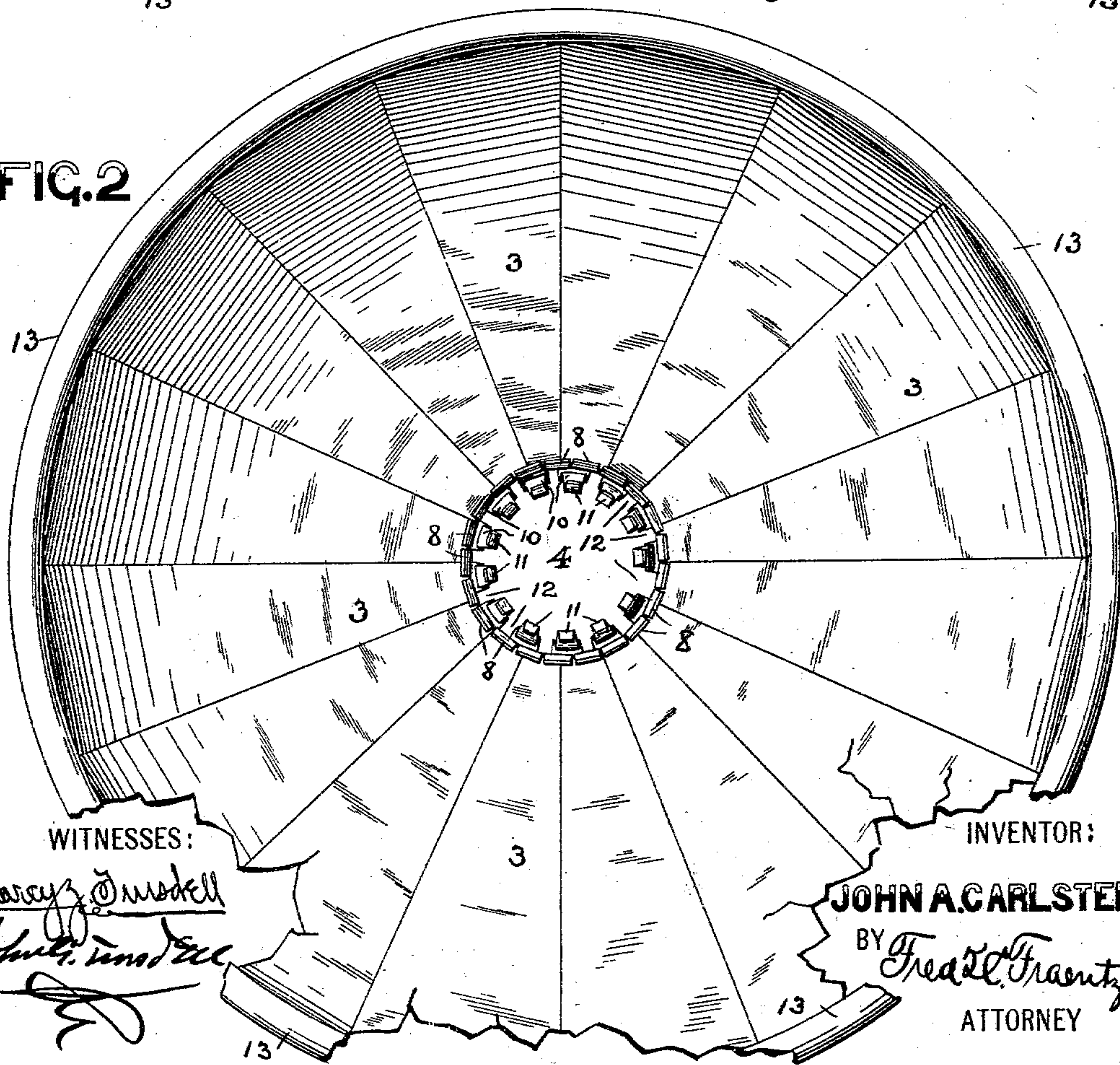


FIG. 2



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2 Sheets—Sheet 2.

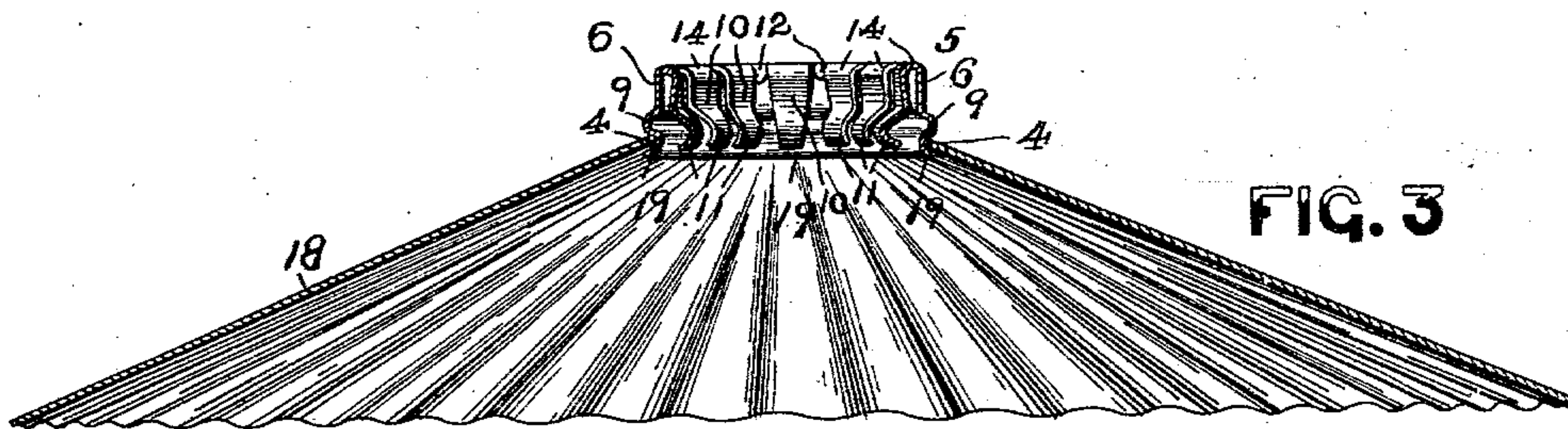


FIG. 3

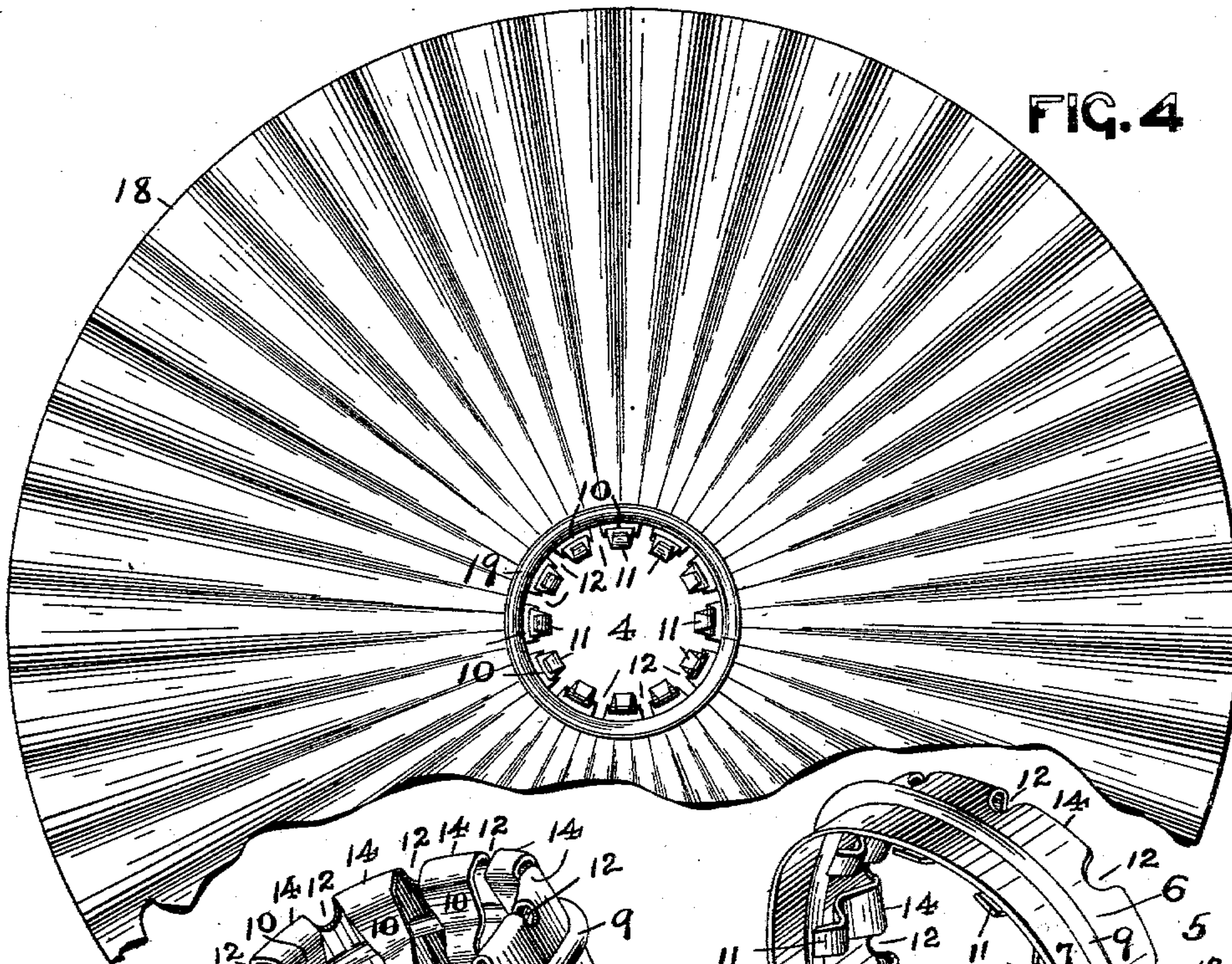


FIG. 4

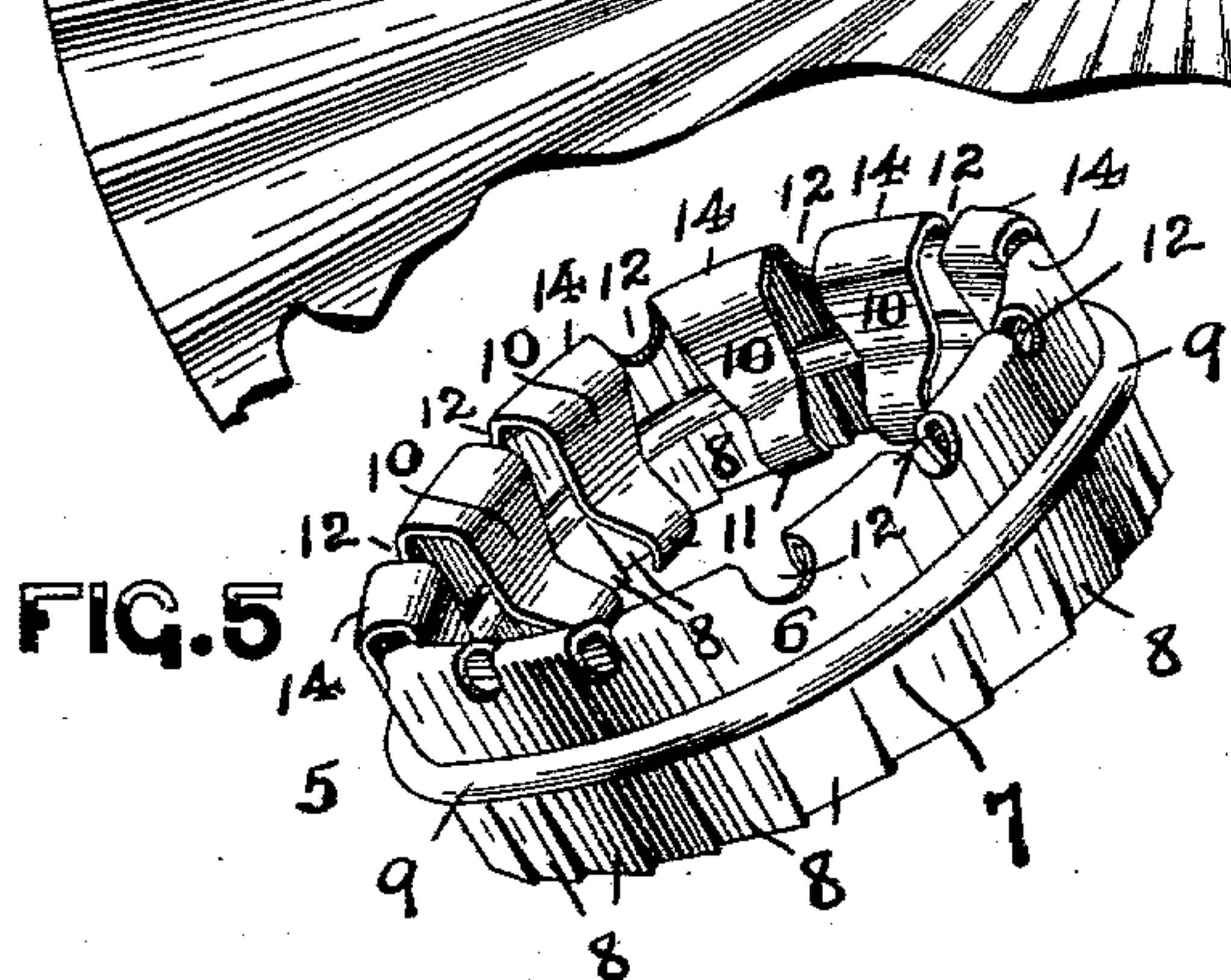


FIG. 5

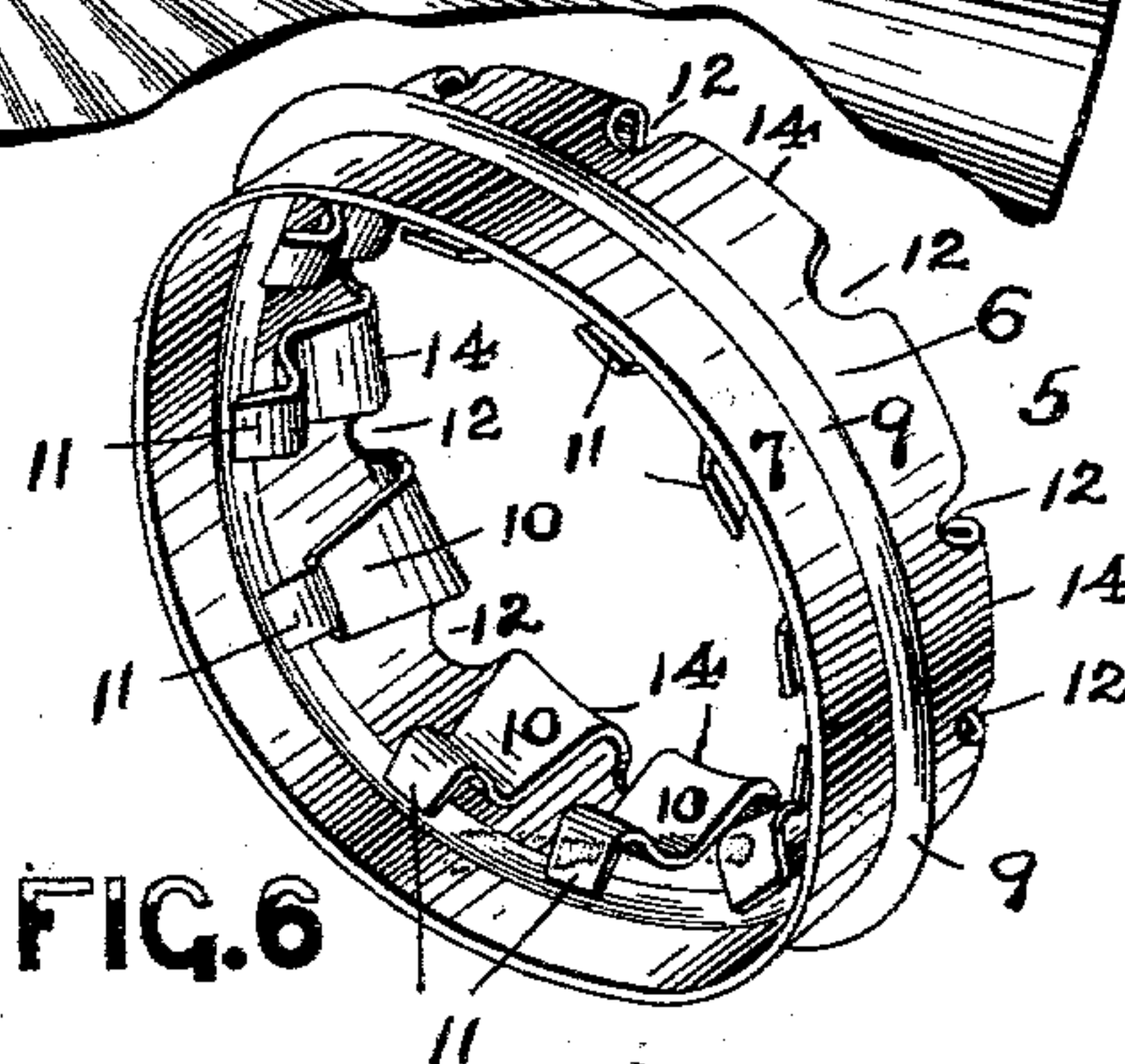


FIG. 6

WITNESSES:

Marcy Z. Dunsell
John W. Dunsell

INVENTOR:

JOHN A. CARLSTEDT.
BY
Fred L. Fraentzel,
ATTORNEY

UNITED STATES PATENT OFFICE.

JOHN A. CARLSTEDT, OF BROOKLYN, NEW YORK, ASSIGNOR TO GEORGE FRINK SPENCER, OF NEWARK, NEW JERSEY.

COMBINED REFLECTOR OR LAMP-SHADE AND COLLAR.

SPECIFICATION forming part of Letters Patent No. 704,711, dated July 15, 1902.

Application filed July 28, 1900. Serial No. 25,073. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. CARLSTEDT, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in a Combined Reflector or Lamp-Shade and Collar; 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 figures of reference marked thereon, which form a part of this specification.

This invention relates generally to improvements in lamp-fixtures, and more especially to reflectors or lamp-shades such as are employed in connection with the sockets of incandescent - electric - light bulbs or other lamps; and the invention has for its principal object to provide a novel construction of combined reflector or lamp-shade and receiving-collar, connected therewith, provided with a suitable holding means with which the lamp-socket or other part of a lamp can be detachably brought in holding engagement, and said collar is of such construction that the holding means provide a double bearing portion for positively and centrally arranging the lamp-socket in its detachable position in the receiving-collar of the reflector or lamp-shade.

A further object of this invention is to provide a combined lamp-shade and collar to be used in connection with electric-light bulbs or otherwise and in which the collar forming the socket-holder is practically an integral part of the lamp-shade and is provided with a suitable means of ventilation for the escape of the heat and is also of such construction that the parts can readily expand without danger of breaking the lamp-bulb or clamping the lamp-socket so tightly that it can be removed only with great difficulty.

Another important object of this invention is to provide a combined lamp-shade and collar in which the latter is of such construction that it not only is capable of receiving and holding the lamp-socket, but also secures or retains the upper portions of certain glass

or metal polished reflector plates or sections in position against the inner surface of the shade proper.

Other objects of this invention not here specifically mentioned will be clearly evident from the description of the invention hereinafter more particularly set forth.

With these several objects in view this invention consists in a novel construction of combined reflector or lamp-shade and collar arranged for quickly and readily receiving the lamp-socket without screwing it in place and a novel means of ventilation connected therewith.

My present invention consists, furthermore, in the several novel arrangements and combinations of the various parts, as well as in the details of the construction thereof, all of which will be hereinafter more fully set forth and then finally embodied in the claim thereof.

The invention is clearly illustrated in the accompanying drawings, in which—

Figure 1 is a combined front elevation and vertical section of a reflector or lamp-shade and collar embodying the principles of my present invention, said view clearly representing the manner of securely but detachably connecting the lamp-socket in position in the collar of the shade, and said view also illustrating the manner of employing portions of the said collar for securely connecting in position within the inner surface of the lamp-shade the upper portions of certain glass or polished-metal plates or sections usually employed and which are for the purpose of reflecting the light rays and for enhancing the general design and beauty of the lamp-shade. Fig. 2 is a bottom view of the combined lamp-shade and collar illustrated in said Fig. 1. Fig. 3 is a vertical cross-section of a combined lamp-shade and collar of a slightly-modified construction, and Fig. 4 is a bottom view of the same. Fig. 5 is a perspective view of the collar employed in connection with the reflector or lamp-shade represented in said Figs. 1 and 2, and Fig. 6 is a similar view of the collar employed with the lamp-shade illustrated in Figs. 3 and 4.

Similar numerals of reference are employed

in all of the said above-described views to indicate corresponding parts.

In the said drawings in Figs. 1 and 2, 1 indicates the complete reflector or lamp-shade, 5 which comprises the cone-shaped outer shell 2, made of sheet metal and lined upon its inner surface with the glass or metallic reflector plates or sections 3. The said shell 2 is provided in its upper portion with an opening 4 of the size desired, and suitably secured in this opening 4 is the collar 5. This collar, as will be seen from an inspection of Figs. 1, 2, and 5, is made from spring metal and is provided with the portions 6 and 7, divided by an annular and outwardly-projecting bead or other suitable projection 9 to form the upper and lower cylindrical portions 6 and 7, above mentioned. As will be noticed, the said cylindrical portion 7 is arranged in the opening 4 in the upper part of the metallic shell 2 with the bead or projection 9 resting directly upon the edge surrounding the said opening to provide an ornamental as well as rigid connection between this part of the shell 2 and the collar 5 when the latter is secured in place by the use of solder or other suitable fastening means. This cylindrical portion is also preferably provided with any desirable number of suitably-arranged slits, as clearly illustrated in Fig. 5, thereby producing suitable prongs or lugs 8, which are bent over and forced against the upper edge portions of the said glass or metallic plates 3 in the manner indicated in Figs. 1 and 2 to thereby securely hold and fasten the upper portions of the said plates or sections 3 in position against the inner surface of the shell 2. The lower surrounding edge of the said shell 2 is turned inwardly and upwardly to provide an annular bead 13, which furnishes a finish to the lower edge of the shell 2 and also suitably secures the plates or sections 3 in position at this point. The upper cylindrical portion 6 of the said collar 5 is provided with suitably-spaced openings or cut-away parts 12 and spring-tongues 10, formed by the inwardly-bent parts 14, forming upper bearing portions and the downwardly-extending portions of the said tongues, as shown. Each spring-tongue 10 is also formed with an inwardly-extending curved holding or bearing portion 11. These spring-tongues 10 and their inwardly-curved holding or bearing portions 11 are arranged in such a manner that the metallic lamp-socket 15, with the lamp-bulb removed therefrom, can be inserted from the top into the open space between the several spring-tongues 10 and its annular bead or other projection 17 forced over and beneath the inwardly-extending curved bearing portions 11, substantially as shown in Fig. 1, with its enlarged annular portion 16 resting against the curved bearing portions 14 of the spring-tongues. In this manner the electric-light socket can be quickly and easily sprung in position and is positively and centrally held by the double

arrangement of the upper bearing portions 14 and the lower bearing portions 11 of said spring-tongues 10 in position in the reflector or lamp-shade ready for the reception of the glass bulb in the usual manner of attaching the same within the socket, and hence the socket and its electric-light bulb cannot be readily displaced by accident or become disarranged from their central position within the lamp-shade or reflector. The said socket can just as readily and quickly be removed from the holding portions of the collar 5 by a slight pull without the necessity of screwing it in place.

In Figs. 3 and 4 I have illustrated the use of the collar 5 with the ordinary metallic reflector or lamp-shade 18, in which the glass or metallic reflector plates or sections 3 are dispensed with, as clearly shown. In the construction of collar used with this form of reflector or lamp-shade the holding-tongues 8, connected with the cylindrical part 7, are dispensed with and the said part 7 is left perfectly plain, as shown, that when placed in the central opening of the shell or shade 18 the surrounding edge of the said cylindrical portion 7 can be arranged in said opening by being bent over against the inner surrounding edge of the shell and held in place by the bead 19, as clearly illustrated in Figs. 3 and 4; but of course it will be evident that the said collar may be otherwise secured in the said opening and rigidly connected with the reflector or lamp-shade shell 18. The said shells 1 and 18 may be variously ornamented and may be scalloped or fluted, as clearly indicated in said Figs. 3 and 4, or may be left entirely plain, as represented in Fig. 1 of the drawings.

The herein-described combined reflector or lamp-shade and socket-receiving collar is especially designed for use in connection with incandescent electric lights; but of course it will be evident that the same may also be employed in connection with other lights and may be used for other purposes, if desired.

The arrangement and construction of the several parts is such that they can be cheaply made and quickly assembled, and a combined reflector or lamp-shade and collar is provided having double bearing portions for the reception and central arrangement of the lamp-socket in relation to the shade and providing an efficient means of ventilation within the shade at the point where it is connected with the lamp, and also the spring-tongues or clamps will permit of sufficient expansion of the several parts without deleterious effects to the same.

Having thus described my invention, what I claim is—

The herein-described socket-receiving collar and lamp-shade support, consisting, essentially, of a cylindrical portion having inwardly and downwardly extending tongues 10, an upper and lower bearing portion on

each tongue, the said collar being formed with an annular and outwardly-projecting bead, and a means of ventilation between the said tongues, and clamping-tongues 8 on said
5 collar, all arranged, substantially as and for the purposes set forth.

In testimony that I claim the invention set

forth above I have hereunto set my hand this 25th day of July, 1900.

JOHN A. CARLSTEDT.

Witnesses:

GEO. FRINK SPENCER,

FREDK. C. FRAENTZEL.