

No. 798,357.

PATENTED AUG. 29, 1905.

C. B. LORD.  
FITTING.

APPLICATION FILED FEB. 6, 1904.

Fig. 1.

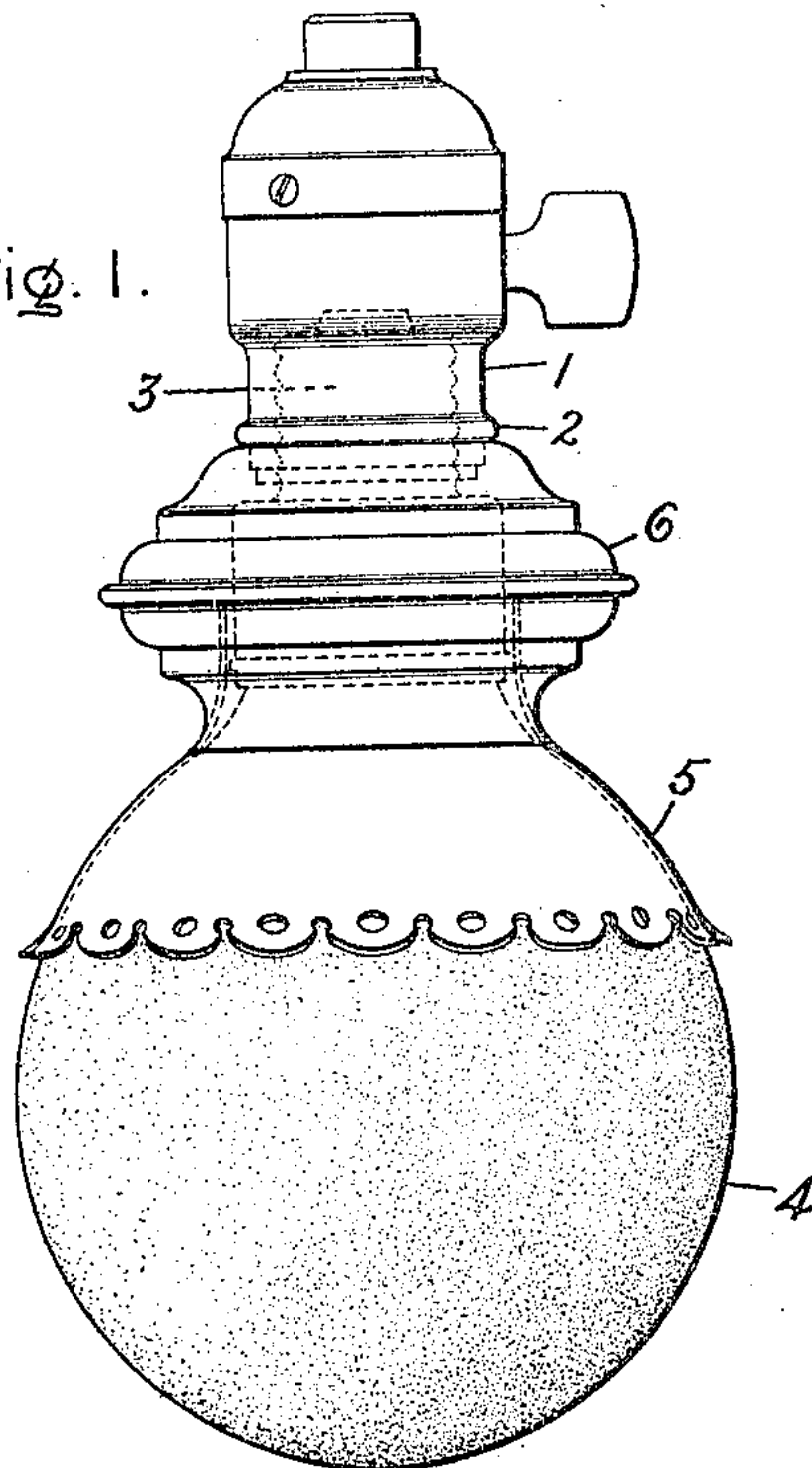


Fig. 2.

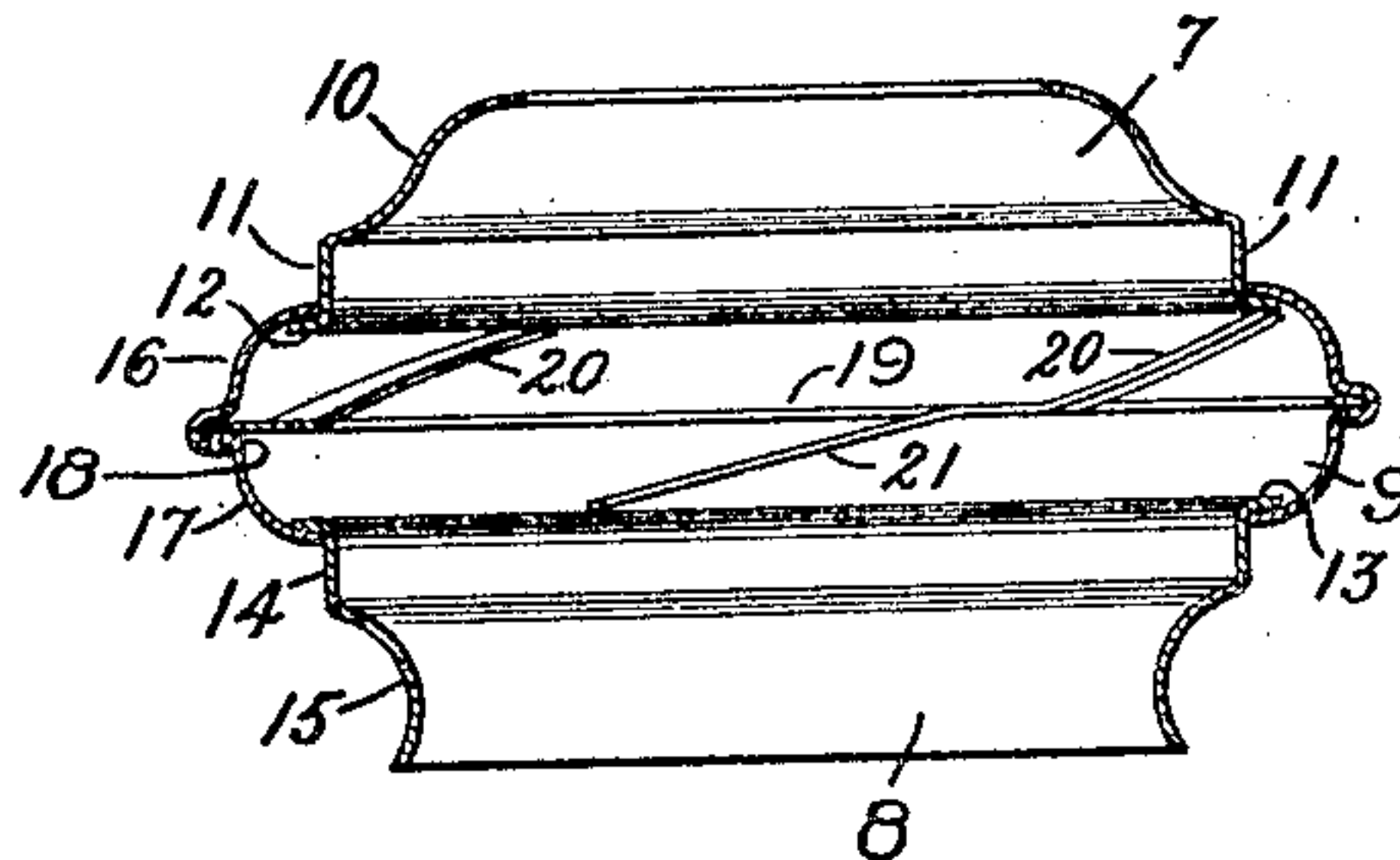
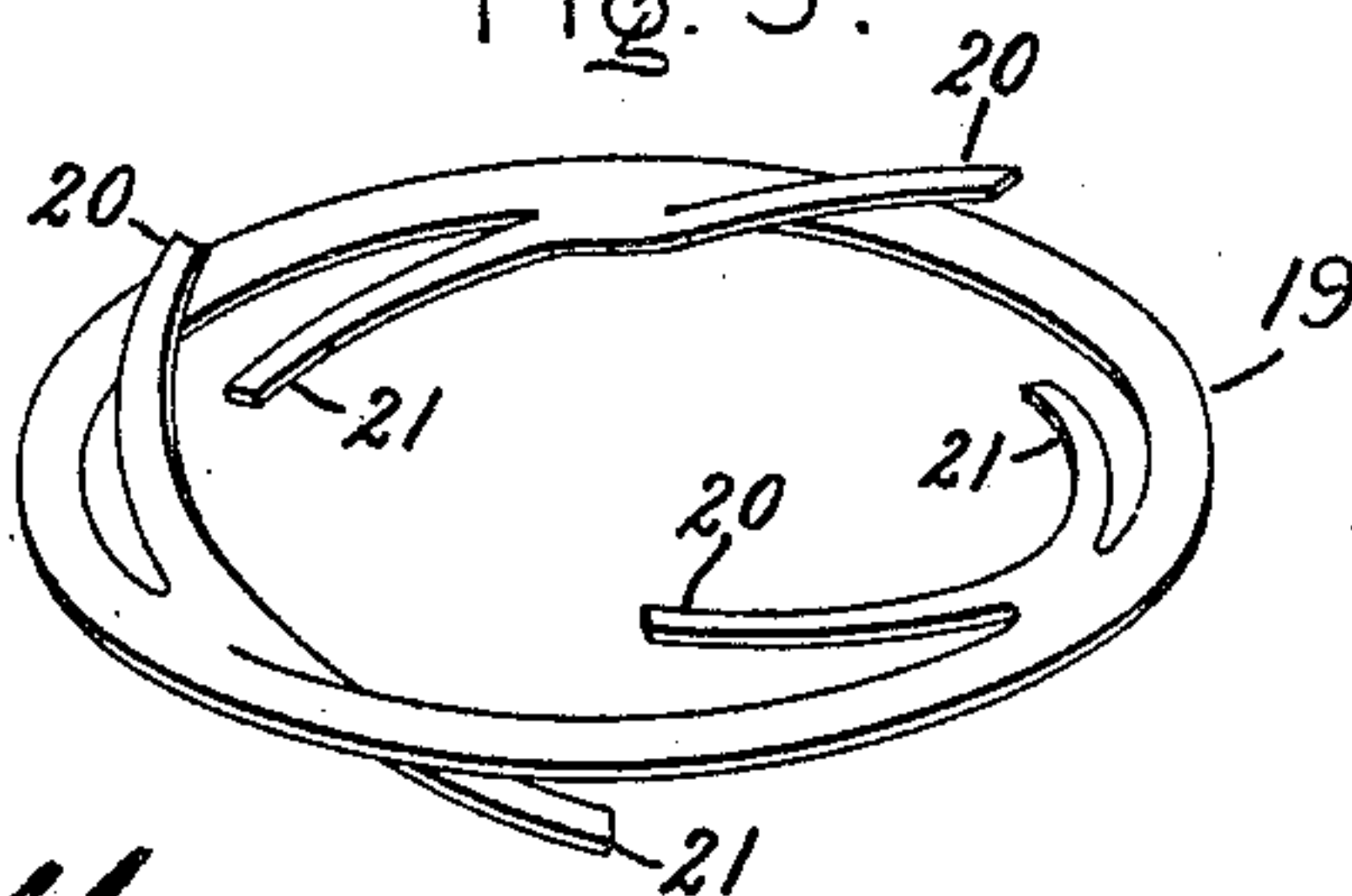


Fig. 3.



Witnesses:

*Benjamin B. Hill*  
*Allen Clifford*

Inventor:

Chester B. Lord.

by *Allen B. Lord*  
Att'y.



# UNITED STATES PATENT OFFICE.

CHESTER B. LORD, OF SCHENECTADY, NEW YORK, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

## FITTING.

No. 798,357.

Specification of Letters Patent.

Patented Aug. 29, 1905.

Application filed February 6, 1904. Serial No. 192,282.

*To all whom it may concern:*

Be it known that I, CHESTER B. LORD, a citizen of the United States, residing at Schenectady, in the county of Schenectady and State of New York, have invented certain new and useful Improvements in Fittings, of which the following is a specification.

My present invention relates to fittings more particularly adapted for use in connection with electric lamps, though not limited thereto, in all of their aspects.

The various novel features of construction and arrangement which characterize my invention will be pointed out with particularity in the claims annexed to and forming a part of this specification.

For a better understanding of my invention reference may be had to the accompanying drawings and description, in which I have illustrated and described one embodiment of it.

Of the drawings, Figure 1 is an elevation of an electric lamp. Fig. 2 is a sectional elevation of the fitting, and Fig. 3 is a perspective view of a detail.

Referring to the drawings, 1 represents an incandescent-lamp socket of the common form provided with an annular bead 2, located near its lower end. Into this socket is screwed an electric lamp 3, provided with a substantially spherical globe 4, the lower portion of which may be frosted, as shown. A portion of the upper surface of the globe 4, which is preferably unfrosted, is covered by the zonular portion of a reflector member 5. The lower edge of the reflector member 5 may be scalloped and perforated, as shown. The upper end of the member 5 is shown in dotted lines in Fig. 1 as embracing the portion of the lamp immediately above the globe. A fitting or trimming 6 in the form of an expansible collar extends between the bead 2 of the socket and the upper surface of the reflector member 5.

The fitting 6 comprises relatively movable annular members 7, 8, and 9. These members may be and preferably are formed out of spun or stamped sheet metal. The upper portion 10 of the member 7 is so shaped that each section cut by a plane passing through the axis of the member is in the form of an ogee curve with the lower end of the curve farthest from the axis. The opening formed in the upper end of the member is just large enough to receive the portion of the cylindrical end of the socket 1, located below the

bead 2. The portion 11 of member 7 immediately below the portion 10 is cylindrical. At the lower end of the cylindrical portion 11 an outwardly-extending flange portion 12 is located. The upper part of the member 8 comprises a flange portion 13 similar to the flange portion 12 of the member 7 and immediately beneath it a cylindrical portion 14 similar to the cylindrical portion 11 of the member 7. A curved portion 15 is located below the cylindrical portion 14. The portion 15 is so shaped that each section cut by a plane passing through the axis of the member is in the form of an outwardly-concave arc.

The member 9 is so shaped that each section cut by a plane passing through the axis of the member is in the form of an outwardly-convex hemispherical arc, the ends of which abut against the outer surfaces of the cylindrical portions 11 and 14. The member 9 is formed of two substantially similar parts 16 and 17. The member 17 has formed at its upper end an outwardly-extending flange portion 18. The lower end of the part 16 is spun or pressed about the flange 18 to lock the parts 16 and 17 together.

As is clearly shown in Fig. 2, an annular member 19 is securely locked between the parts 16 and 17. The member 19 is provided with a number of upwardly-extending spring-arms 20 and a number of downwardly-extending spring-arms 21. The free ends of the spring-arms 20 bear against the under side of the flange portion 12 of the member and tend to force the flange against the under side of the upper end of the annular member 9. Similarly the free ends of the arms 21 bear against the upper side of the flange portion 13 of the member 8, forcing it toward the lower edge of the member 9.

The various parts are so proportioned that when the lamp 3 is screwed in the socket 1 the collar 6 will be compressed slightly between the bead 2 and the reflector 5. This will cause all of the parts to be secured firmly together in position, with the reflector 5 held in proper position with respect to the globe 4.

By reason of the elasticity of the member 6 nice calculations in the proportioning of the parts are avoided. The member 6 serves to conceal and protect the upper portion of the lamp and the lower end of the socket.

In the particular construction described when the members 7 and 8 are pressed together



each will have the same relative movement with respect to the member 9, in consequence of which the symmetry of the construction will be unaffected by the compression of the parts. When all of the parts are made out of sheet metal, as shown, an extremely simple, durable, and reliable construction is obtained.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

10 1. In a lamp-fitting, a pair of end members, a middle member, an annular member secured to said middle member, and spring projections extending from said annular member to en-  
15 gage said end members.

15 2. In a lamp-fitting, a middle member, a pair of end members movable with respect to said middle member, an annular member secured intermediate the ends of said middle member, and spring connections between said annular  
20 member and each of said end members.

25 3. In a lamp-fitting, a middle member formed in two parts, an end member movable with respect to said middle member, an annular member located between said parts, a projection from one of said parts spun about the

outer periphery of said member and a portion of the other of said parts whereby the said parts and the annular member are secured together, and spring connections between said annular member and said end member. 30

4. In a lamp-fitting, a middle member, a pair of end members, each of said end members having a limited movement relative to the middle member, and independent spring connections between said middle member and each  
35 of said end members whereby when the end members are forced together each will have the same movement relative to the middle member.

5. In combination, a lamp, a fitting there-  
40 for in the form of a collar comprising a pair of end members, a middle member, and spring connections between said middle member and each of said end members.

In witness whereof I have hereunto set my  
45 hand this 4th day of February, 1904.

CHESTER B. LORD.

Witnesses:

BENJAMIN B. HULL,  
HELEN ORFORD.