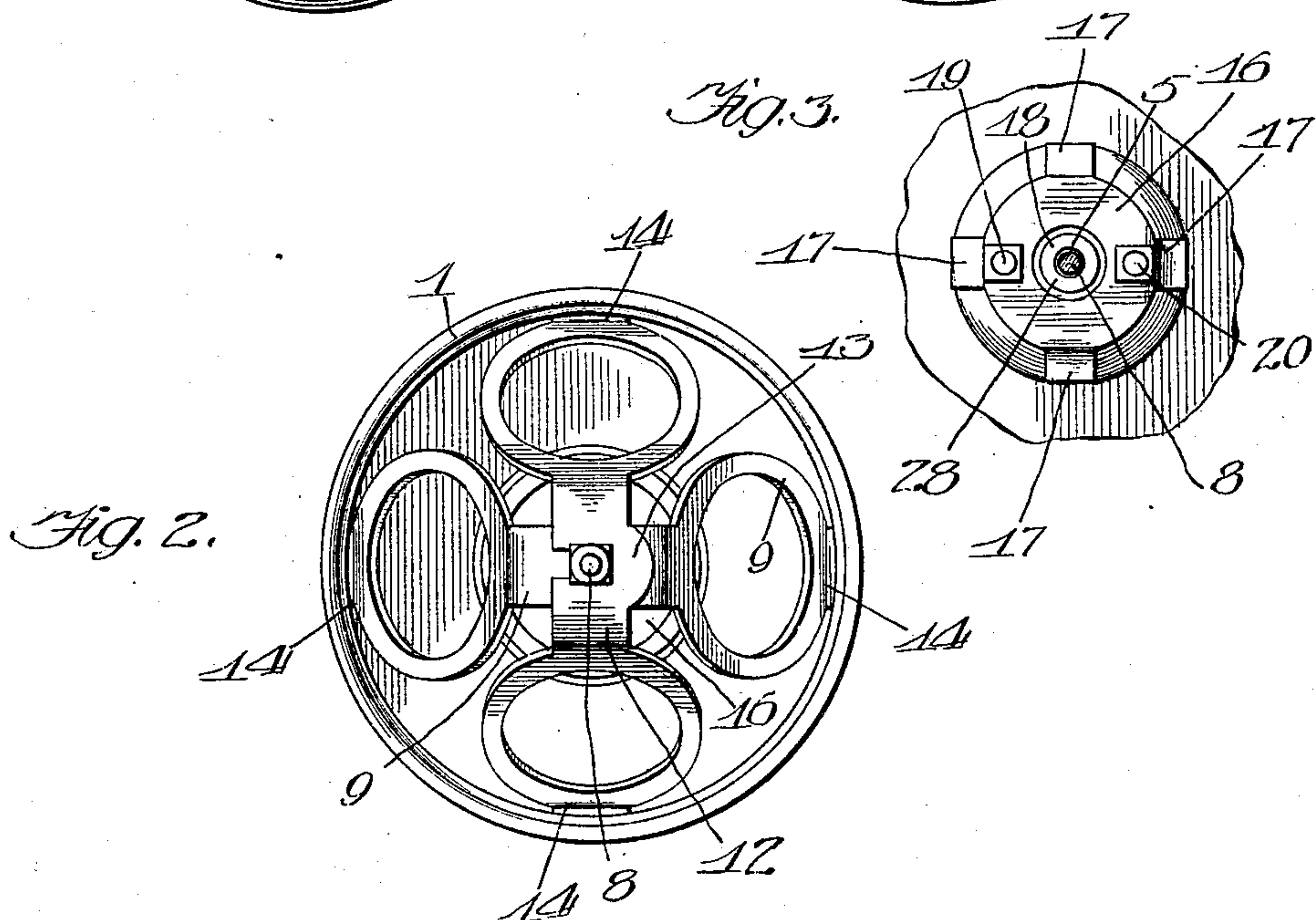
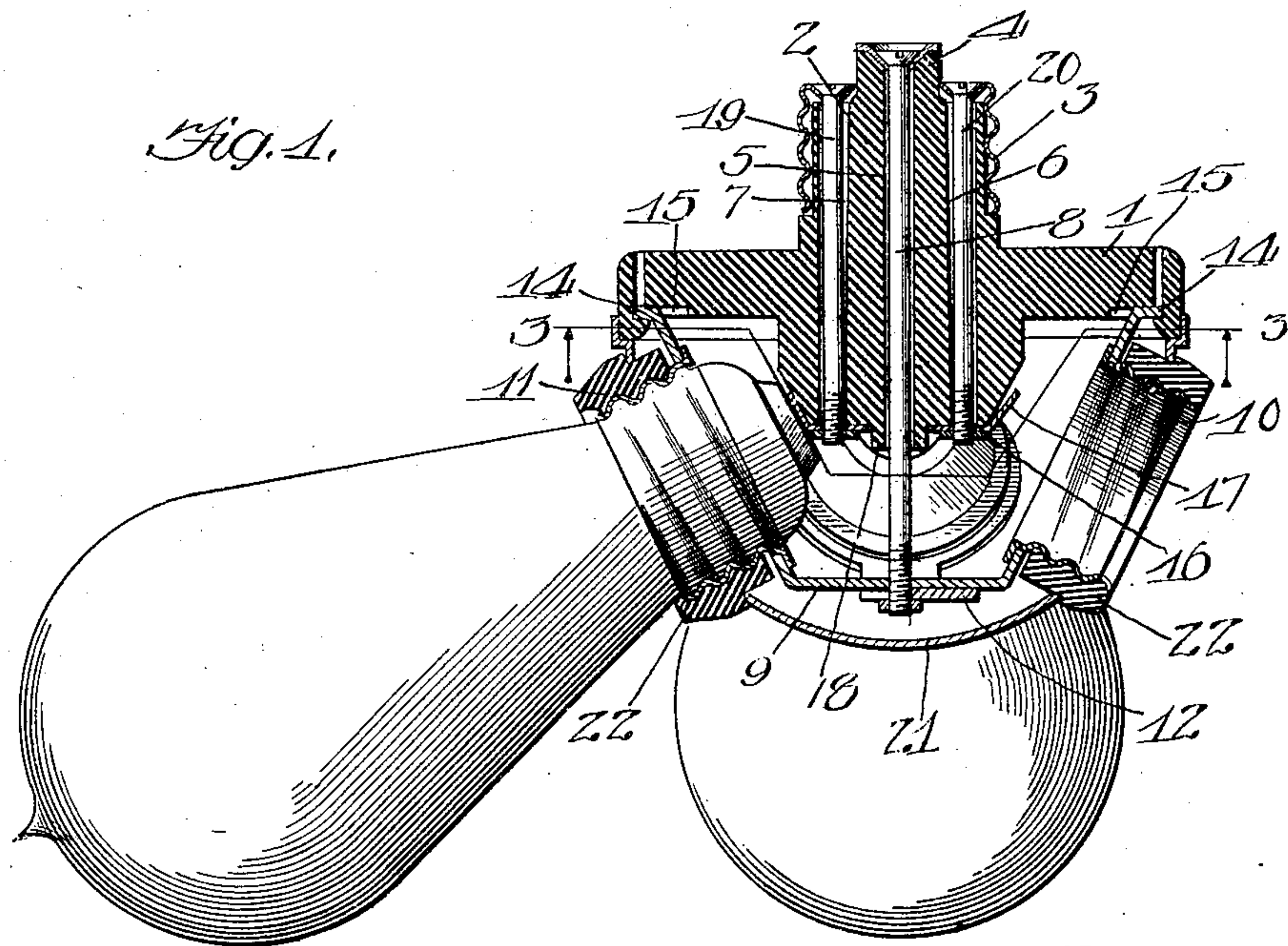


R. B. BENJAMIN.  
PLURAL LAMP SOCKET.  
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898,822.

Patented Sept. 15, 1908.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

REUBEN B. BENJAMIN, OF CHICAGO, ILLINOIS, ASSIGNOR TO BENJAMIN ELECTRIC MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

## PLURAL LAMP-SOCKET.

No. 898,822.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed February 23, 1907. Serial No. 358,960.

*To all whom it may concern:*

Be it known that I, REUBEN B. BENJAMIN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Plural Lamp-Sockets, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawing, forming a part of this specification:

My invention relates to improvements in electric-lamp clusters, and particularly to improvements in a type of lamp-cluster which is adapted to be inserted into an ordinary lamp receptacle, one of the objects of the invention being the production of a device of this class which is efficient and durable and yet simple in construction and economical in manufacture.

In the accompanying drawings: Figure 1 is a vertical central sectional view of a device embodying my invention; Fig. 2 is an inverted-plan view of the device with the cover and lamp-holding shells removed; and Fig. 3 is a broken sectional view, the section being taken on the line 3—3 of Fig. 1, looking in the direction indicated by the arrows and showing some of the parts in elevation.

In the several figures of the drawings, in which like reference numerals indicate similar parts throughout, 1 is a base formed of porcelain or other suitable insulating material, this base having formed thereon or being otherwise provided with a plug 2. This plug 2 is provided with suitable contacts adapted to cooperate with the contacts of an ordinary lamp receptacle of the Edison type. The outer contact may conveniently consist of a corrugated or threaded shell 3, this shell having the form of a cup with a central circular opening in its bottom. The plug 2 is formed or provided with a centrally-disposed projection 4 which extends through the opening in the bottom of the cup 3 when this cup is slipped on to the plug 2.

The plug 2 is formed with an opening 5 extending centrally and longitudinally there-through, and with other openings 6 and 7 substantially parallel with the opening 5.

Extending through the central opening 5 is a bolt 8, the outer end of which forms the center contact for the plug and upon the inner end of which is secured a plate 9. This plate 9 carries one of the contacts for each of a plurality of lamps, and, as herein shown,

when adapted for Edison lamps these contacts will be the lamp-holding sockets 10 and 11. A substantially similar plate 12 is arranged cross-wise the plate 11 and also carries a pair of lamp-holding sockets. Each of these plates 9 and 12 is made in the form of a pair of rings connected by a web portion 13, as shown in Fig. 2. Each of the rings is provided with a wing-like extension 14, these wing-like extensions 14 having each an out-turned end adapted to be inserted into an undercut recess 15 in the lower side of the base 1.

Upon the inner side of the base 1 is a circular plate 16 having a plurality of wings 17 extending radially therefrom and adapted to form the center contacts for the lamps. This plate 16 is formed with a central circular opening and the inner side of the base is formed with a projection 18 adapted to extend through the opening in the plate 16. This projection 18 serves to center the plate 16 on the base 1 and prevents the same from coming in contact with the bolt 8. Extending longitudinally through the openings 6 and 7 are bolts 19 and 20. The bolts 19 and 20 pass through the plate 16 and secure it to the base 1. These bolts also serve to secure the outer contact member 3 to the plug 2 and to electrically connect the same to the plate 16.

A cover or casing 21 is adapted to engage around its edge the circular edge of the base 1. This cover is formed with suitable openings through which project the lamp sockets. Insulating sleeves or bushings 22, interiorly screw-threaded to cooperate with the threads on the lamp-holding shells 10 and 11, serve, when inserted through the openings in the cover 21 and screwed on to the lamp-holding shells, to support or sustain the cap or cover 21 and hold it in place against the base 1.

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

1. In a plural lamp socket, a base having a plug upon one of its sides and a plate upon its opposite side disposed to engage the center contacts of a plurality of lamps, an outer contact member upon said plug, and means providing electrical connection between said plate and said outer contact.

2. In a plural lamp socket, a base having a plug provided with inner and outer contacts, a plate arranged to engage the inner terminals of a plurality of lamps, and a member



extending longitudinally through the plug and providing an electrical connection between the outer contact of the plug and said plate.

5 3. In a plural lamp socket, a base having a plug upon one of its sides, said plug being provided with an outer contact member and an inner contact for engagement with the contacts of a suitable socket and a plate upon  
10 the opposite side of said base in electrical communication with the outer contact of the plug, said plate being arranged to engage the inner terminals of the lamps.

4. In a plural lamp socket, a base having a  
15 plug, said plug having an outer contact member thereon, a lamp-terminal-contacting plate, and a bolt extending longitudinally through the plug and securing said outer contact member and said plate in position and  
20 providing electrical communication therebetween.

5. In a plug-cluster, the combination of a plurality of threaded shells, a plate secured to said shells, a plug having an outer contact,  
25 an inner contact for said plug comprising a bolt extending to and supporting said plate, a casing supported by said shells, and inner contacts opposite said shells electrically connected with the outer contact of the plug.

30 6. In a plug-cluster, a base having a plug upon its outer side arranged to engage the center terminals of the lamp and a plate upon its inner side, an outer contact upon said plug in electrical connection with said plate, a  
35 center contact on said plug, another plate secured to said base and a plurality of lamp-holding devices carried by said last-named plate, said last named plate being arranged in electrical communication with said center  
40 contact.

7. In a plural lamp socket, a plug carrying a plurality of lamp-holding devices, said plug provided with an outer and an inner contact,  
45 means providing electrical connection between the outer contact of the plug and the inner contacts of the lamps, and means providing electrical connection between the inner contact of the plug and the outer contacts of the lamps.

50 8. In a plural lamp socket, a base having an undercut recess, a lamp-supporting plate having shoulders supported in said recess and a bolt extending through said plate and through the plug and forming a contact  
55 member for said plug.

9. In a plural lamp socket, a base having recesses, a lamp-contact-supporting plate having flanges resting in said recesses, a plug upon said base having contacts, and a member extending through said plug and assist- 60 ing to support said plate, said member electrically connecting said plate with one of the contacts of the plug.

10. In a plug-cluster, the combination of a base provided with a plug upon one of its  
65 sides, said plug having a center contact and an outer contact adapted to cooperate with the contacts of a suitable receptacle, a plate upon the opposite side of said base in electrical communication with the outer contact  
70 of the plug and adapted to form the inner contact for each of a plurality of lamps, a plate adapted to conduct current to the outer contacts of a plurality of lamps, and electrical connection between said last-named  
75 plate and the center contact of the plug.

11. In a plug-cluster, the combination of a base having a plug upon one of its sides and a plate upon its opposite side, a center contact and an outer contact upon said plug  
80 adapted to cooperate with the contacts of a suitable receptacle, said plate being electrically connected with said outer contact, and a plate in electrical connection with said center contact and adapted to support a plural-  
85 ity of lamps and to provide an outer contact for each of said lamps.

12. In a plug-cluster, the combination of a base having a plug upon one of its sides, said plug having a center contact and an outer  
90 contact, a bolt extending centrally through said plug, a plate secured to said bolt, said plate serving to conduct current to the outer contact of each of a plurality of lamps, a plate secured to the inner side of the base  
95 and adapted to provide a center contact for each of the lamps, and a bolt extending longitudinally through the plug, said last named bolt securing said last named plate to the base and effecting electrical connection be-  
100 tween said plate and the outer contact of the plug.

In witness whereof, I have hereunto subscribed my name in the presence of two witnesses.

REUBEN B. BENJAMIN.

Witnesses:

W. L. FARRAR,  
C. L. HOPKINS.