

No. 743,991.

PATENTED NOV. 10, 1903.

K. SHAFFER.  
ELECTRIC FIXTURE.

APPLICATION FILED JULY 12, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

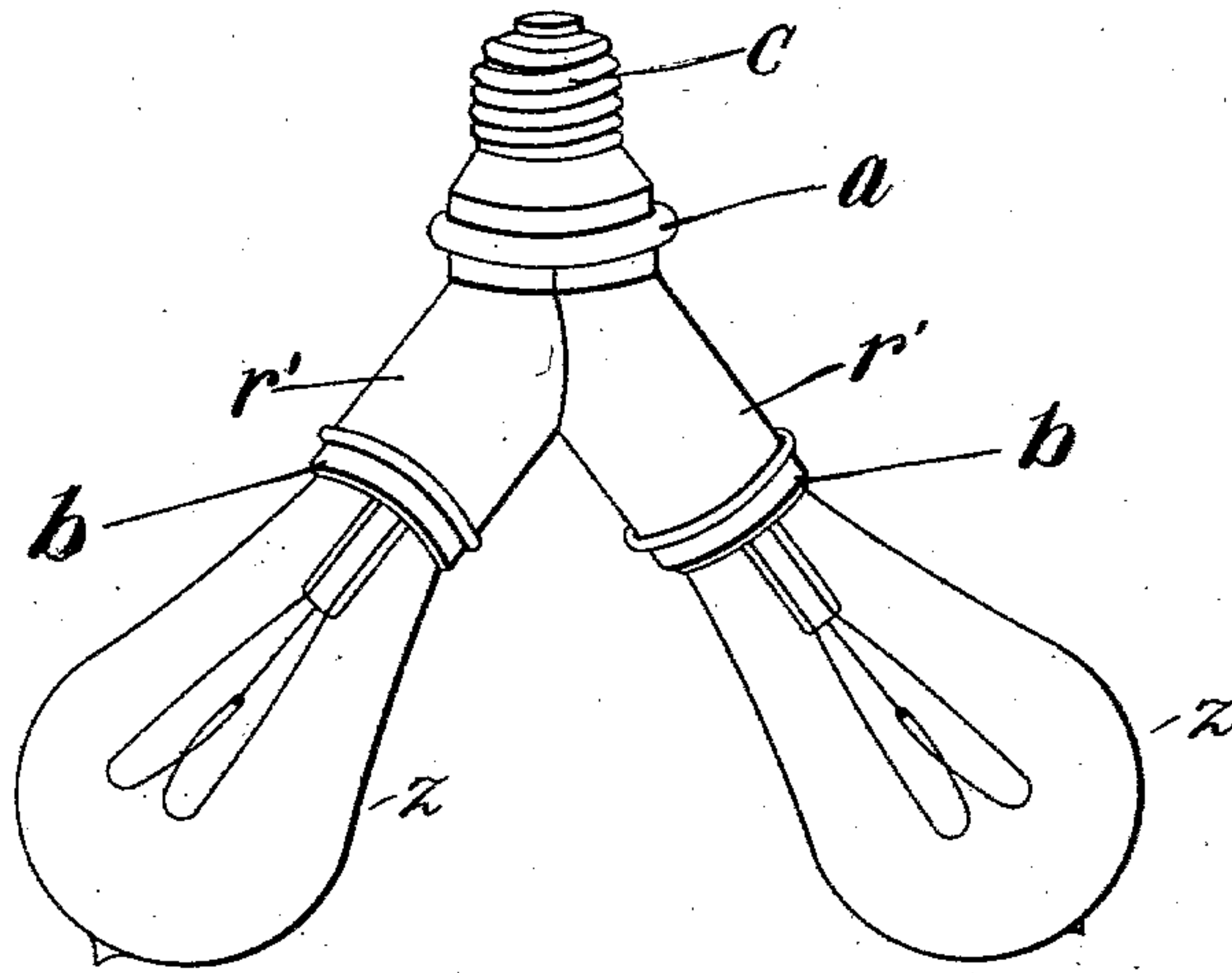


Fig. 1.

Witnesses

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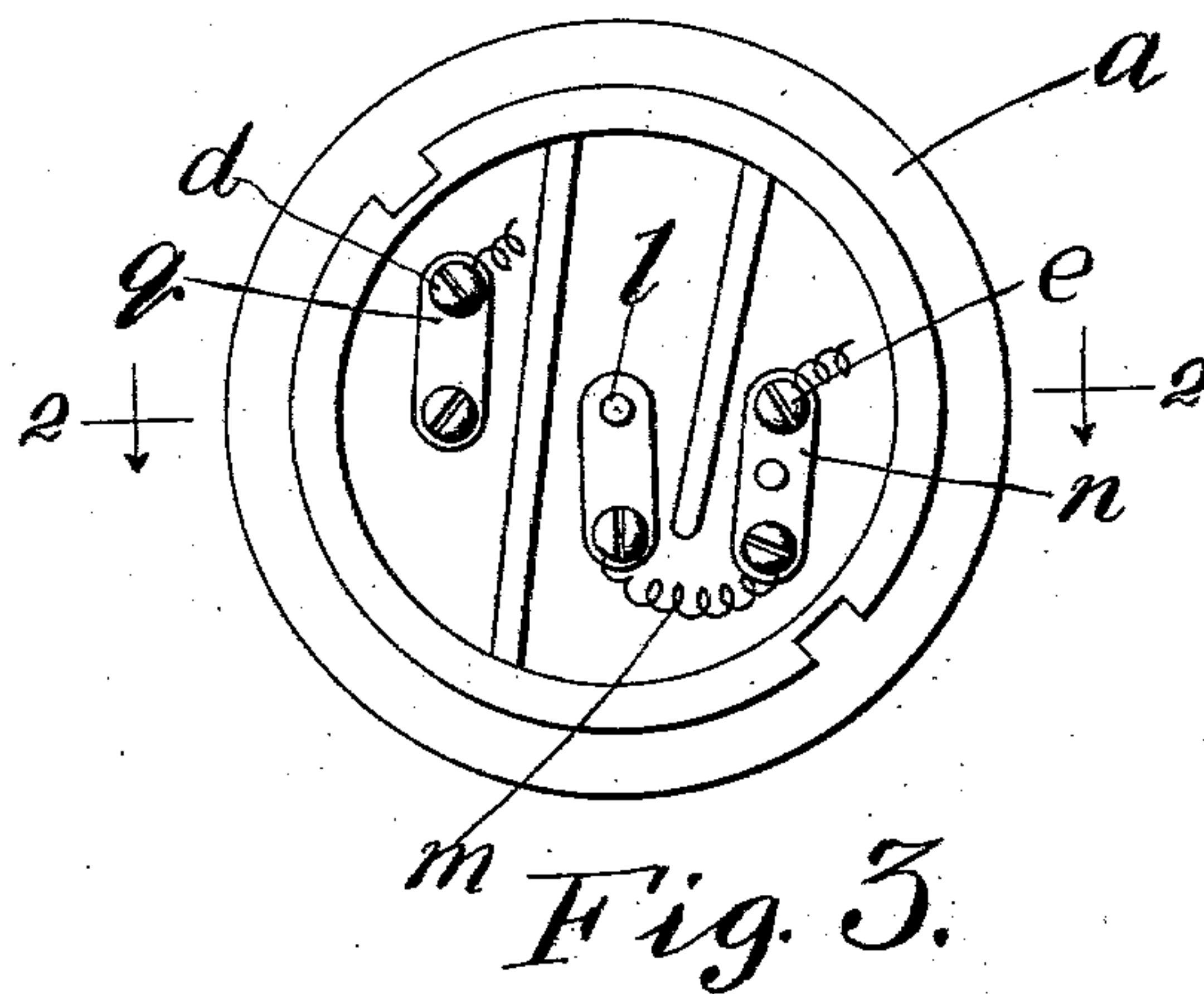
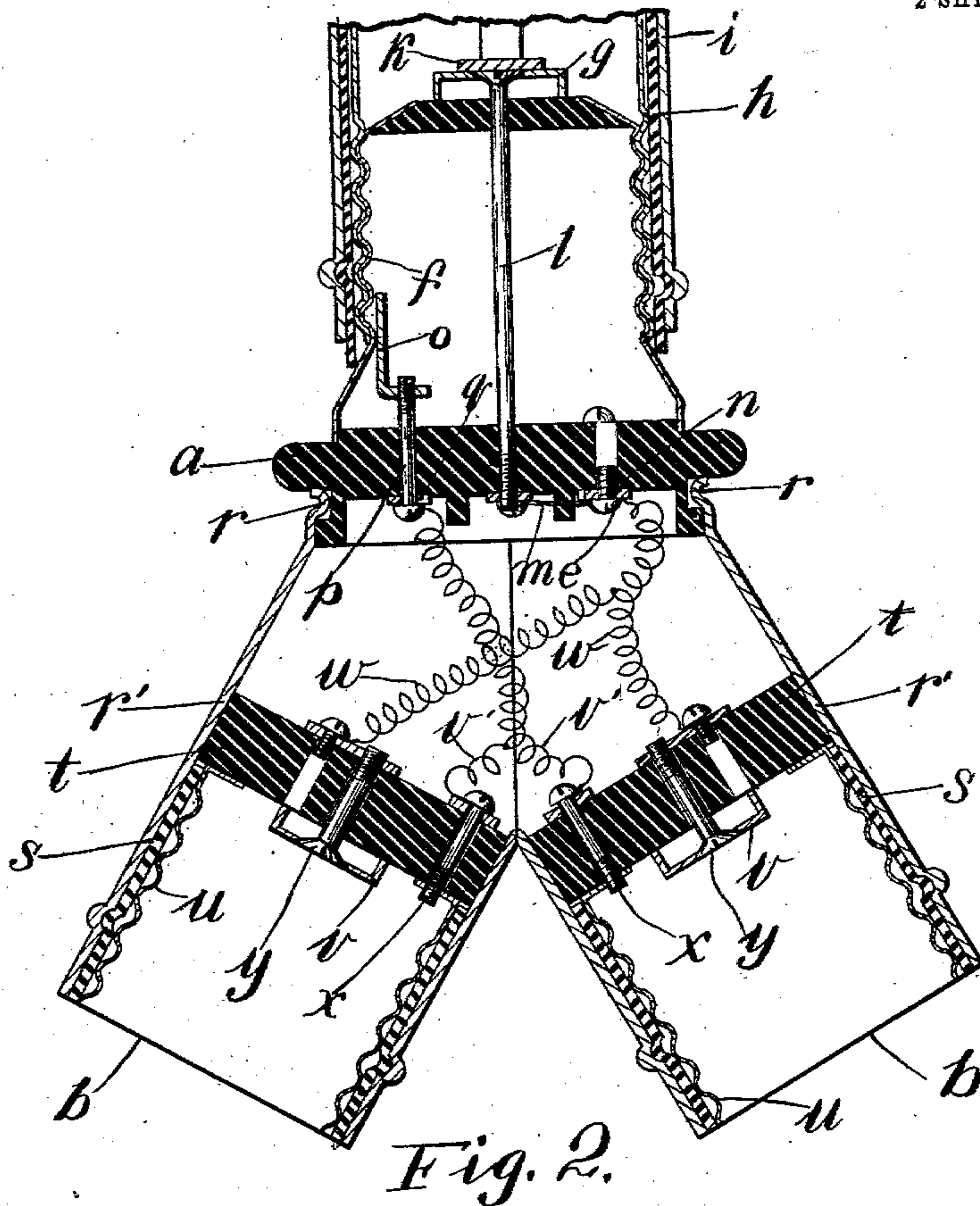
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2 SHEETS—SHEET 2.

NO MODEL.



Witnesses

Edward W. Novaudet

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# UNITED STATES PATENT OFFICE.

KENT SHAFFER, OF EVANSTON, ILLINOIS.

## ELECTRIC FIXTURE.

SPECIFICATION forming part of Letters Patent No. 743,991, dated November 10, 1903.

Application filed July 12, 1902. Serial No. 115,293. (No model.)

*To all whom it may concern:*

Be it known that I, KENT SHAFFER, a citizen of the United States, residing at Evanston, in the county of Cook and State of Illinois, have  
 5 invented a certain new and useful Improvement in Electric Fixtures, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

10 My invention relates to electric fixtures, and serves to provide an improved form of cluster or group connection for translating devices—such, for example, as incandescent electric lamps. Where fixtures of the Edison  
 15 type are employed, the sockets of a cluster or group are supported upon a bracket or rod fixedly secured to the wall or ceiling, it being impracticable to remove the cluster or group of sockets without disarranging the entire  
 20 fixture.

By means of my invention I am enabled to separably associate a group or cluster of sockets with a socket projecting from the wall or ceiling, thereby replacing those clusters of  
 25 sockets that have proved so faulty in actual practice, because of their mechanical imperfections. The invention, moreover, permits a ready change in the character of the electric fixture associated with the socket, as one  
 30 form of fixture may be readily removed and another inserted in place thereof. In this way one incandescent lamp may be employed in association with the ceiling or wall socket or any number within reasonable limits may  
 35 be associated with such socket.

My invention in its preferred embodiment comprises a group or cluster of sockets provided with two terminals common to all of the sockets and a plug substantially mechanically fixed with respect to the sockets, the  
 40 same terminals being common to the plug-terminals also. Each device of my invention therefore comprises a group of terminal devices, including a plurality of sockets for supplying incandescent lamps or other translating devices with current and a plug having  
 45 connection with the terminals of the sockets for effecting connection with the mains.

I will explain my invention more fully by reference to the accompanying drawings, in which—

Figure 1 is a perspective view of the pre-

ferred embodiment of my invention, incandescent lamps being shown in place within the sockets of the structure. Fig. 2 is a sectional view through the axes of the sockets and plug on line 2 2 of Fig. 3. Fig. 3 is a view of the base of the plug constituting an element of the invention.

Like parts are indicated by similar characters of reference throughout the different figures.

A support *a*, made, preferably, of some suitable insulating material, as porcelain, is common to the sockets *b b* and the plug *c*. I have shown but two sockets; but the number may be increased without departing from the spirit of the invention. This base portion *a* supports terminals, preferably in the form of screws *d* and *e*. The terminal *d*, for example, is brought into electrical connection with the threaded sleeve *f* of the plug *c*, while the terminal screw *e* is brought into electrical connection with the central plug-terminal *g*. The terminals *f* and *g* of the plug are designed for engagement, respectively, with the threaded-sleeve *h* of a wall or ceiling socket *i* and the central terminal *k* of the said wall or ceiling socket. The connection between the terminals *g* and *e* is preferably completed through a stem *l*, a fuse *m*, and a plate *n*, while connections between the terminals *d* and *f* will be established with a front plate *o*, a screw *p*, and a plate *q*. The sockets are preferably provided with a common means for separably attaching the same to the base *a*, the means being preferably in the form of a clip-flange or spring-clip *r*, engaging corresponding recessed portions in the base. The clip *r* preferably forms an integral part of a casing *r'*, that is preferably metal, which casing is bifurcated to provide two sleeves within which shells of insulating material *s*, as rubber, may be disposed, these shells of insulating material being capped by top walls *t*, also made of insulating material, as porcelain. There is contained in each rubber sleeve *s* a threaded sleeve *u*, constituting a socket-terminal. There projects into each sleeve-terminal *u* a central terminal *v*, that is directly supported by the cap-plate *t*. Conductors *v'* connect the threaded terminal *u* with the terminals *q*, as illustrated, while the conductors *w* connect the terminals *v* with the ter-



minal *e*. Screws *x*, passing through the cap-plates *t*, serve to connect the conductors *v'* with the threaded sleeve-terminals *u*, while screws *y* correspondingly effect connection of the conductors *w* with the terminals *v*. The terminals of the sockets are thus connected in parallel with the terminals of the common plug, while protection is lent to the composite structure by means of the single fuse *m*. The organization thus described is adapted to supply current to a plurality of translating devices, as the lamps *z z*, from a common wall or ceiling socket, as *i*. These lamps are provided with terminal plugs. Plugs for conducting supply-current to translating devices other than lamps may obviously be inserted within the same sockets.

It is obvious that changes may be made in the device of my invention shown without departing from the spirit of the invention, and I do not, therefore, wish to be limited to the precise structure set forth; but,

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

In an electric fixture, the combination with a plug, having one terminal in the form of a threaded sleeve and a second central terminal, of a plurality of sockets, each provided with a terminal in the form of a threaded sleeve and a second central terminal, the said plug and sockets being mechanically united, two terminals common to the terminals of the plug and to the terminals of the sockets, conductors connecting the terminals of the sockets in parallel, and a base interposed between the plug and the sockets carrying the said two terminals, substantially as described.

In witness whereof I hereunto subscribe my name this 1st day of July, A. D. 1902.

KENT SHAFFER.

Witnesses:

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HARVEY L. HANSON.