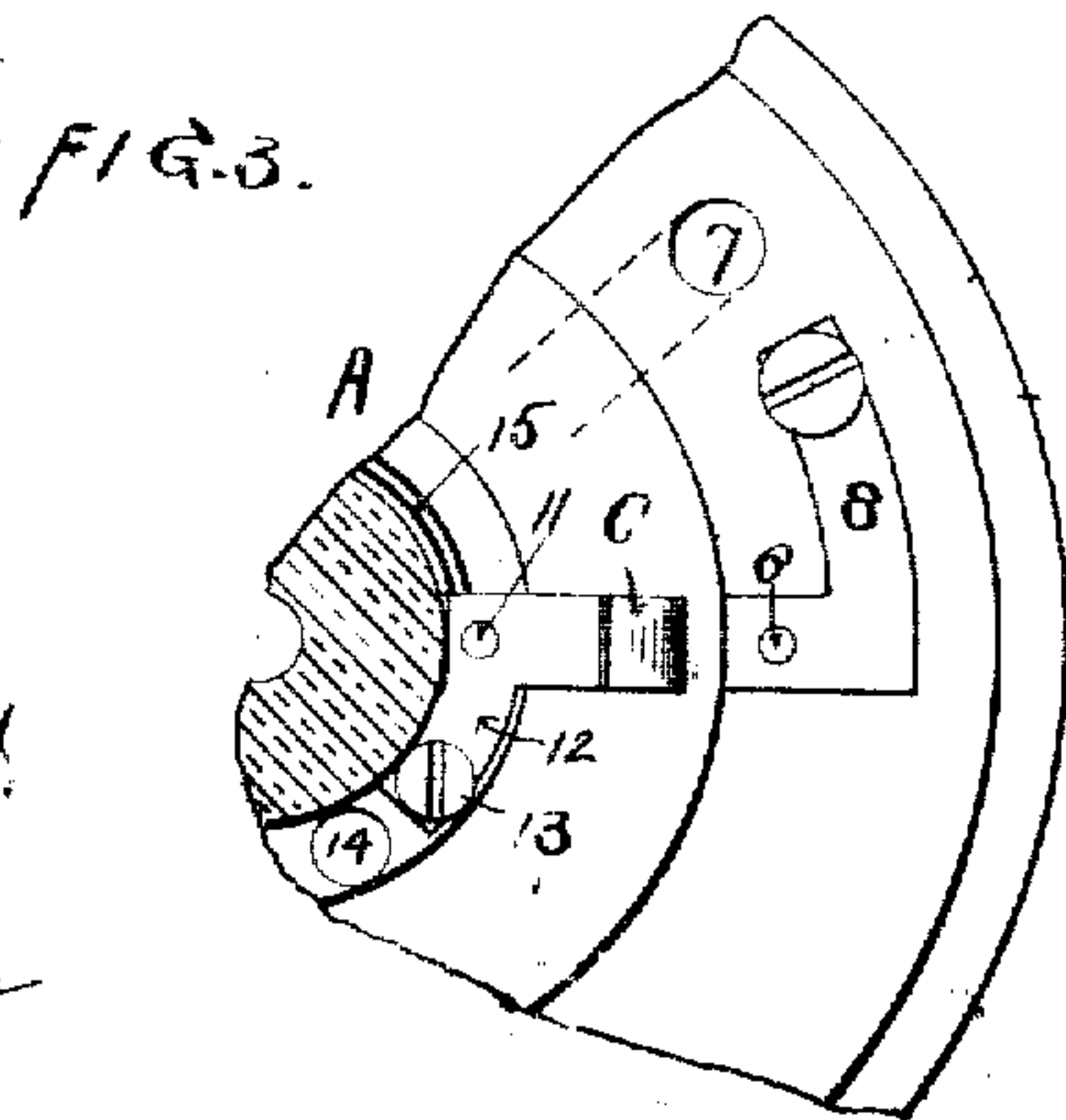
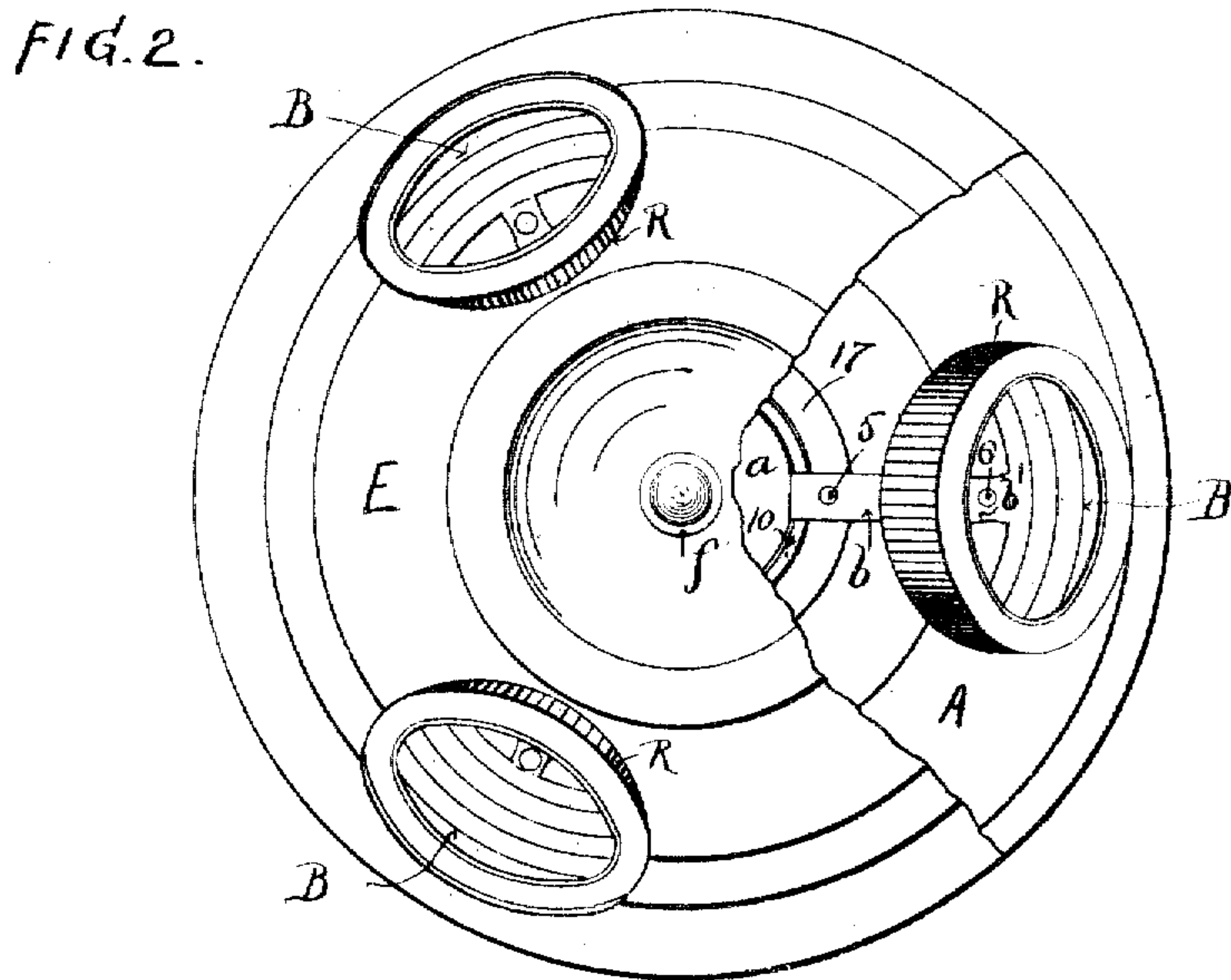
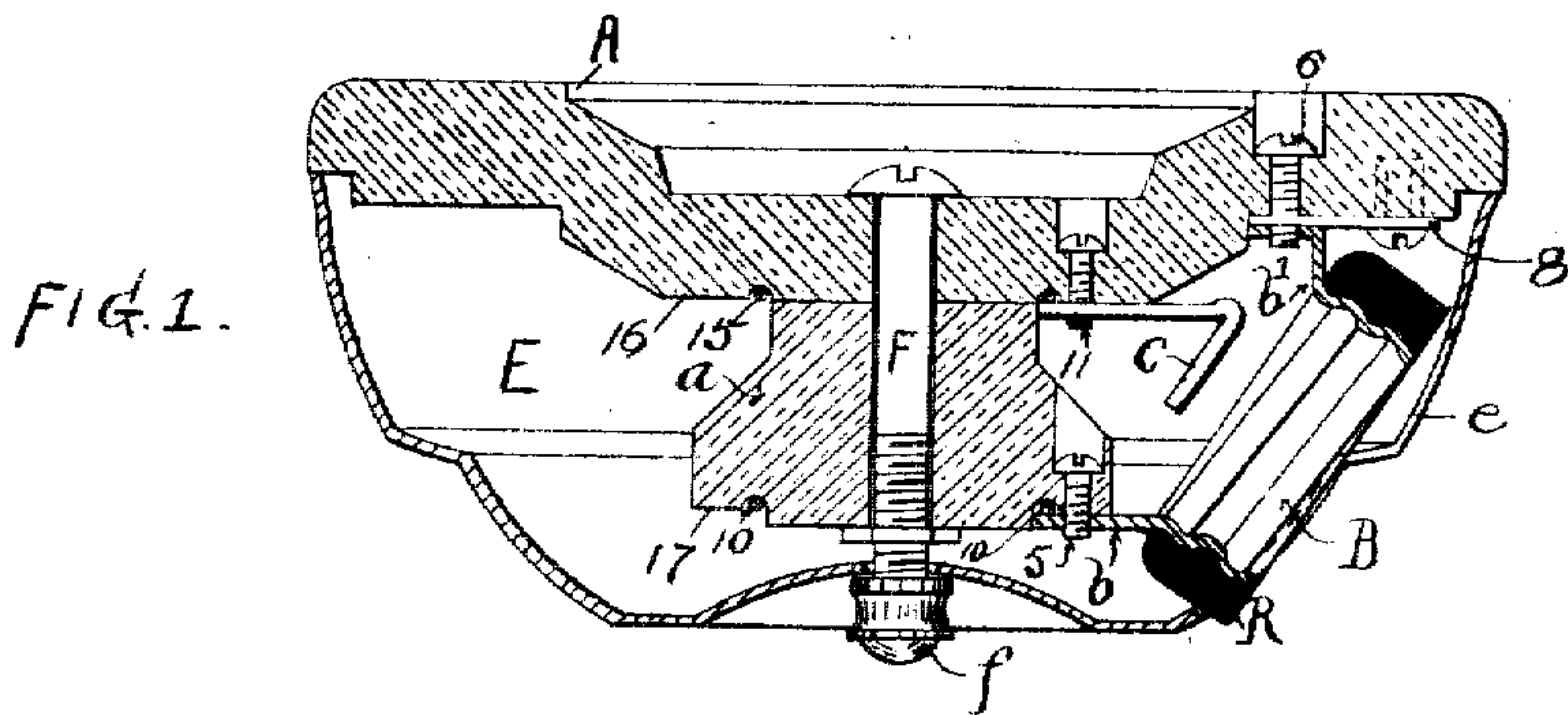


N. WEEKS.
ELECTRICAL LAMP FIXTURE.
APPLICATION FILED JUNE 21, 1901.

912,514.

Patented Feb. 16, 1909.



WITNESSES:
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UNITED STATES PATENT OFFICE.

NELSON WEEKS, OF RICHMOND HILL, NEW YORK, ASSIGNOR TO BENJAMIN ELECTRIC MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

ELECTRICAL-LAMP FIXTURE.

No. 912,514.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed June 21, 1901. Serial No. 65,499.

To all whom it may concern:

Be it known that I, NELSON WEEKS, a citizen of the United States of America, residing in Richmond Hill, in the county of Queens, State of New York, have invented Improvements in Electrical-Lamp Fixtures, of which the following is a specification.

My invention relates to that class of electric lamp fixtures which are commonly termed cluster fixtures, for the reception of a number of incandescent electric lamps, and the object of my invention is to provide a fixture of this character such that it can be economically manufactured and easily connected up and readily repaired.

In the accompanying drawing Figure 1 is a vertical section of one form of my improved fixture: Fig. 2 is an inverted plan view of the same, without any lamp in place, and with the cover partly broken away; and Fig. 3 is a sectional view of a part, to show the line conductor connections.

In this drawing I have shown my invention as embodied in a fixture employing the screw lamp sockets of the Edison type, but I do not wish to restrict myself thereto.

One of the features of my invention is the mounting of the lamp-carrying sockets and their contacts directly upon the insulating base. In the construction shown in Figs. 1, 2 and 3, the base A of porcelain or other suitable insulating material has contracted central portions and ledges 16 and 17, somewhat after the manner of the base of my patent of March 22, 1898, No. 601,108, but in this instance the lower central portion *a* is shown as a separately molded piece. The two parts may be held together by a nut *f* on the central bolt F. Each lamp socket is composed of a metallic shell or ring terminal B and a spring contact finger C. The shell B in the Edison type is threaded to receive and hold the screw ring terminal of the incandescent lamp, while the finger C is adapted to make contact with the central end terminal of the lamp. Each shell B is formed or provided with two tongues or flanges *b* and *b*¹, by which the shell may be secured directly to the insulating base by the screws 5 and 6. The line conductor for connection with the shells may be brought in through an opening 7, Fig. 3, and connected to an L-shaped terminal plate 8, which may be in contact with the tongue *b*¹ of one of the socket shells and secured by

the same screw 6, which secures that tongue of the socket to the base. The several socket shells B, of which three are shown in Fig. 2, may be electrically connected up in any suitable way, as by means of a bare wire 10 positioned on the ledge 17 in the face of the central portion *a* of the base, and making contact with the tongues *b* of the several shells. Each shell has an insulating ring or bushing R screwed onto or otherwise secured to its outside to protect it from contact with the metallic cover E which is detachable and held in place by a screw nut on the threaded end of the central bolt F. This cover has openings *e* formed in it for the insertion of the lamp bases into the sockets and for the partial protrusion of the lower edges of the bushings R to hold the cover E in place rotarily, without interfering with the free removal of the cover E when the nut *f* is detached.

The central end contact or terminal C of the socket is preferably formed of a bent plate secured to the insulating base by a screw 11, inserted from the back, I prefer to provide one of these plates C with a curved wing 12, Fig. 3, having a binding screw 13 for securing the end of the line conductor which may be brought in through a hole 14 in the base, Fig. 3. The several contact plates C may be connected up in any suitable way, as by a bare wire 15.

I claim as my invention:—

1. The combination with a suitable base or supporting part, of a plurality of lamp receivers and associated contacts mounted upon said base, an insulating bushing or ring surrounding each of said receivers, and a detachable metallic casing having a lamp opening opposite each of said receivers, the bushings and casing being arranged to permit the removal of the casing without disturbing or removing the bushings.

2. The combination with a suitable base or supporting part, of a plurality of threaded lamp receiving shells and associated center contacts carried thereby, a threaded insulating bushing upon the exterior of each of said threaded shells, and a detachable metallic casing having an opening opposite each of said threaded shells, said bushings and casing being arranged to permit the removal of the casing without disturbing or removing said bushings.

3. The combination with a suitable base

or supporting part, of a plurality of lamp receiving shells and associated center contacts supported thereby, an insulated bushing upon the exterior of each of said shells, a metallic casing suitably detachable and having a lamp opening opposite each shell, said casing and bushings being arranged so that the bushings partially protrude in the openings of the casing to prevent the rotation thereof while permitting the ready removal of the casing.

4. In a lamp cluster, the combination with an insulating base having a ledge formed thereon, or a plurality of lamp supporting contacts mounted upon said base and having the inner ends thereof secured upon said ledge, said base having a second ledge formed thereon and an additional contact for each of said lamp supporting contacts mounted upon said second ledge and a cover, substantially as described.

5. A cluster lamp fixture, comprising an insulating base, a number of lamp-sockets carried by the base, each socket comprising a central terminal and a ring terminal with an insulating bushing on the ring terminal, and a removable cover having openings through which the bushings partially protrude to hold the cover in place rotarily without interfering with the free removal of the cover.

6. A cluster lamp fixture, comprising an insulating base, a number of lamp sockets carried by the base, each socket comprising a central terminal and a ring terminal with an insulating bushing on the ring terminal, a detachable cover having openings through which the bushings partially protrude to keep the cover in place rotarily without interfering with the free removal of the cover and a bolt and nut to secure the cover to the base.

7. A cluster lamp fixture, comprising an insulating base, a number of lamp sockets carried by the base, each socket comprising a central terminal and a ring terminal with an insulating bushing on the ring terminal, and a detachable cover having openings through which the insulating bushings protrude each at one edge only to hold the cover rotarily in place, while not interfering with the removal of the cover from the base.

8. In a plural lamp cluster, the combination with a suitable insulating base, of a plurality of threaded shells off-set from said base to leave a space between the base and

the shells for the accommodation of the center contact and carrying a pair of supporting legs attached to the insulating base, suitable center contacts, and a casing having lamp openings opposite said threaded shells.

9. In a plural lamp cluster, the combination with a two-part insulating base, of means for detachably securing the two parts of said base together, center contacts mounted upon one of said parts, and lamp receiving shells having supporting parts secured to both of said base parts.

10. In a cluster fixture, the combination with an insulating base formed of a plurality of parts, lamp contacts for a number of lamps carried by said base, an inclosing casing, and a bolt or spindle for holding the parts of the base together and for holding the casing in position.

11. In a cluster fixture, the combination with an insulating base formed of a plurality of parts, a bolt or spindle for holding the parts of the base together, threaded lamp shells and center contacts for a number of lamps carried by said base, an inclosing casing, and insulating bushings upon the exterior of said threaded shells.

12. In a lamp cluster, the combination with an insulating base having a ledge formed thereon, of a plurality of lamp receivers having their lower ends secured to said base and their upper ends supported by said ledge.

13. In a plural lamp cluster, the combination with an insulating base comprising a plurality of parts, of means for securing the parts of said base together, center contacts mounted on one of said parts, and lamp receiving shells supported at the upper ends on one part of said base and at the lower ends by another part of said base.

14. In a plural lamp cluster, the combination with an insulating base comprising a plurality of parts and having an annular recess formed therein, of means for securing the parts of the base together, center contacts mounted in said annular recess, and lamp receiving shells supported at their upper ends on one part of the base and at their lower ends on another part of said base.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses.

NELSON WEEKS.

Witnesses:

F. WARREN WRIGHT,
HUBERT HOWSON.