

No. 723,032.

PATENTED MAR. 17, 1903.

S. ROTHSCHILD.
FUSE PLUG.

APPLICATION FILED JUNE 23, 1902.

NO MODEL.

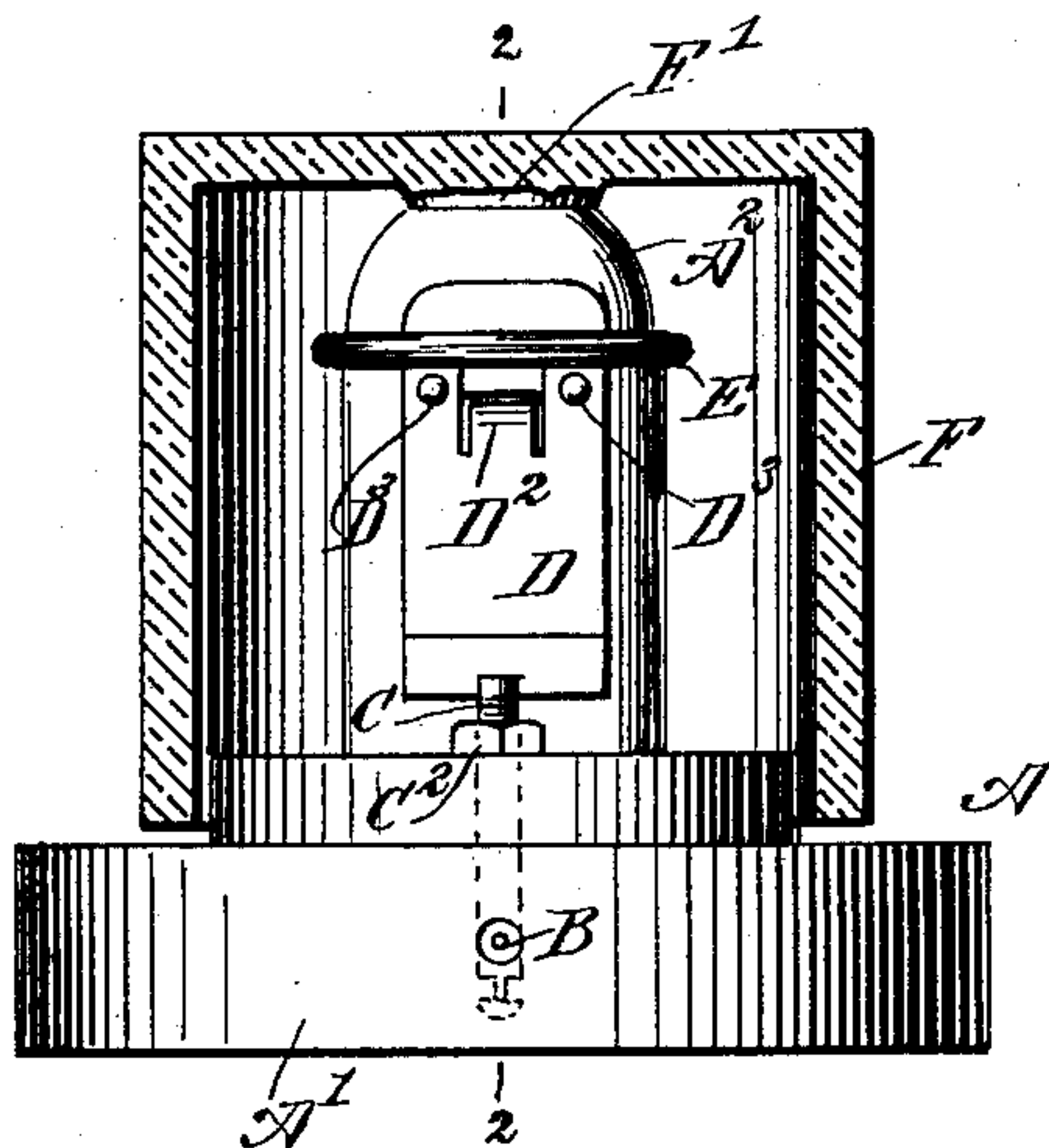


Fig. 1

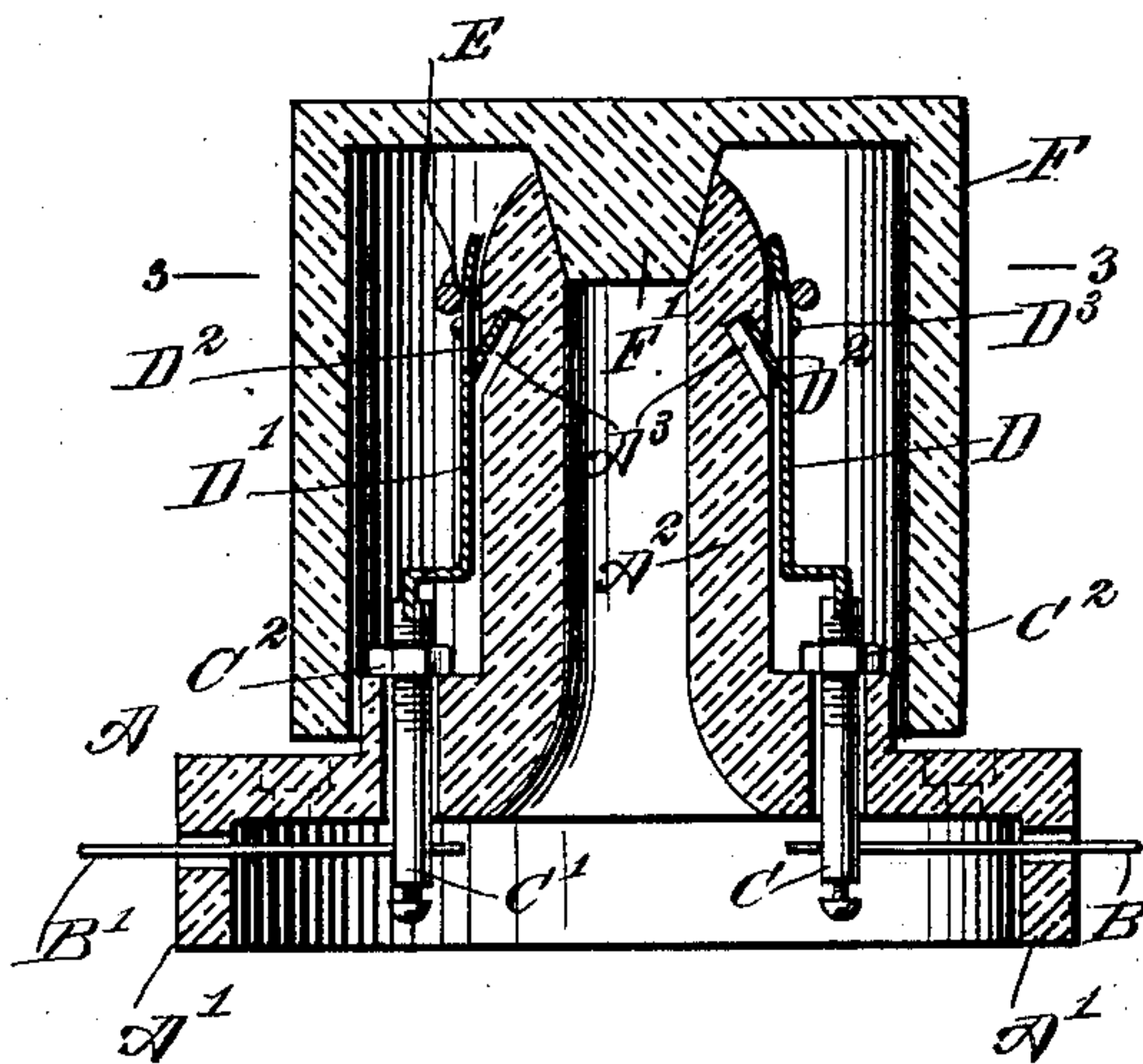


Fig. 2

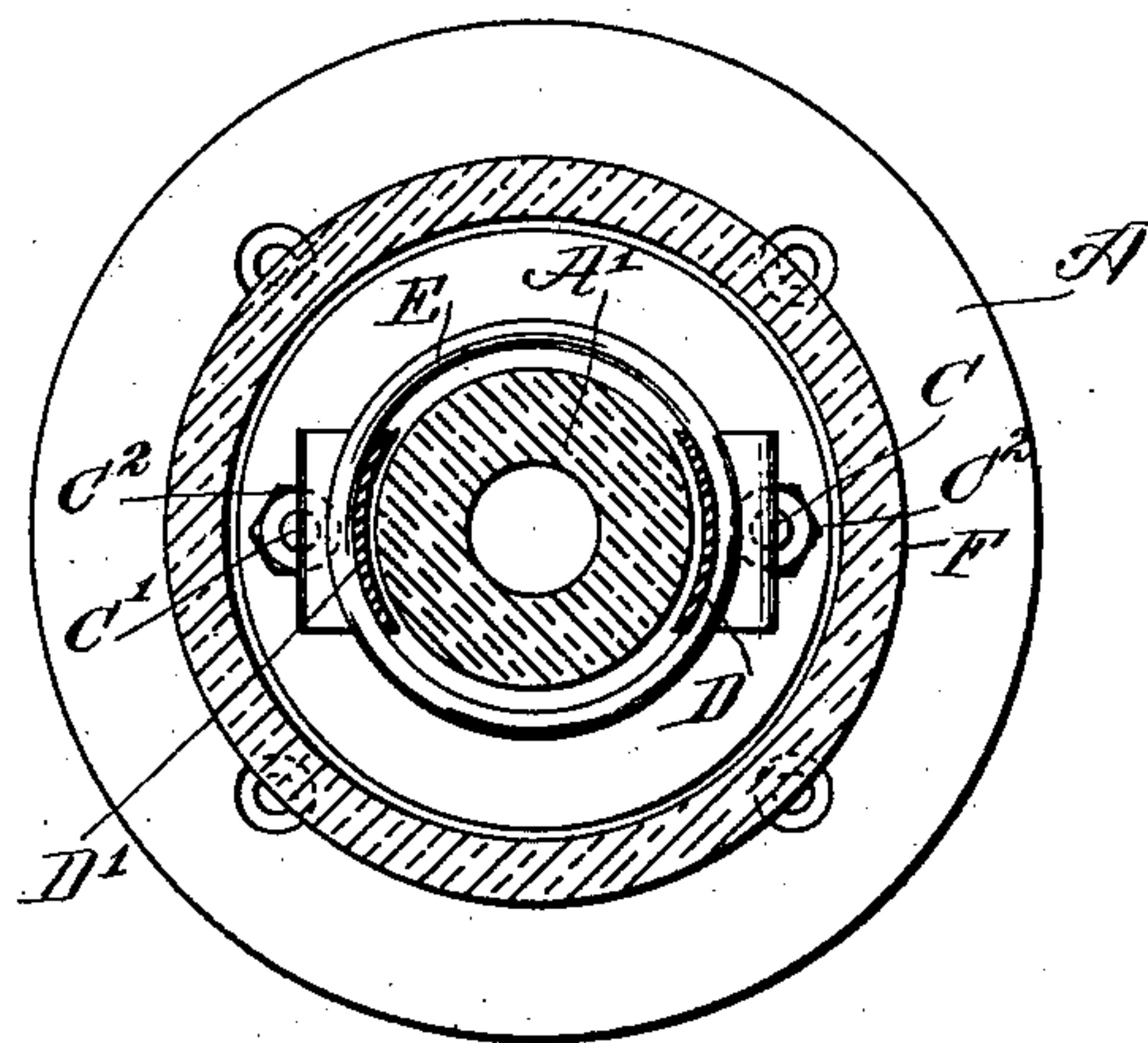


Fig. 3

WITNESSES:

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SIDNEY ROTHSCCHILD, OF NEW YORK, N. Y.

FUSE-PLUG.

SPECIFICATION forming part of Letters Patent No. 723,032, dated March 17, 1903.

Application filed June 23, 1902. Serial No. 112,806. (No model.)

To all whom it may concern:

Be it known that I, SIDNEY ROTHSCCHILD, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Fuse-Plug, of which the following is a full, clear, and exact description.

The invention relates to conductors of electricity having an interposed fuse of lead or other metal capable of destruction by an excessive current.

The object of the invention is to provide a new and improved fuse-plug which is simple and durable in construction, cheap to manufacture, easily repaired in case the plug burns out, and arranged to insure a secure connection between the ends of the circuit-wires to be joined.

The invention consists of novel features and parts and combinations of the same, as will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the improvement, showing the casing-cover in section. Fig. 2 is a transverse section of the same on the line 2 2 of Fig. 1, and Fig. 3 is a sectional plan view of the same on the line 3 3 of Fig. 2.

The casing A of the fuse-plug is made of porcelain or other suitable non-conducting material and is formed at its bottom with a depending flange A', through which extend from opposite sides conducting-wire terminals B B', secured inside of the casing to posts C C' in the shape of bolts held loosely in openings in the casing, as plainly indicated in Fig. 2. The bolts C C' are slotted at their upper ends to receive the lower ends of the conducting or contact plates D D', adapted to be connected with each other at their free ends by a fuse in the shape of a ring E, of lead or other metal having a low melting-point. The plates D D' are preferably made of spring metal and extend on opposite sides of the post A², forming part of the casing A and provided on opposite sides with recesses A³, extending upwardly and inwardly to receive

corresponding V-shaped tongues D², struck up from the plates D D', near the free ends thereof, so that when the nuts C² of the bolts C C' are screwed up then the tongues D² are moved in firm engagement with the walls of the recesses A³ to securely hold the plates D D' in position at their upper ends on opposite sides of the post A². The casing-cover F is in the shape of an inverted cup and is likewise made of porcelain or similar non-conducting material, and on the under side of the top of the cover is formed a lug F' in the shape of a frustum of a cone, fitting into a correspondingly-shaped recess in the upper end of the post A², so as to hold the cover F in proper position relative to the casing to securely inclose the fuse-ring E, plates D D', and the upper ends of the bolts or posts C C'. It will be noted that the post A² is tapered or conical and that the spring-plates D D' conform to the shape of the post. Now in case a fuse-ring E burns out it is only necessary for the operator in charge to remove the cover F, place a new fuse-ring over the upper end of the post A², and slip the ring upon the free ends of the plates D D', so as to connect the same with each other by means of the ring. The plates D D' may be provided near their upper ends with small lugs D³ to prevent the ring E from slipping down too far on the plates D D'.

From the foregoing it will be seen that the device is very simple and durable in construction, cheap to manufacture, and convenient access is had to the various parts to permit making repairs whenever they are necessary.

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

1. The combination, with a fuse-plug post of the spring-metal plates arranged on opposite sides of the same and curved inward at their upper ends, the same forming the terminals of an electric circuit, and a fuse-ring made of such diameter that it is adapted to pass over the extremities of said plates before coming in contact with adjacent portions of the same, substantially as shown and described.

2. A fuse-plug having a casing of non-conducting material, provided with a central post, conducting-plates on opposite sides of the

said post, and a fuse-ring slipped over the post, to engage the free ends of the said plates, to connect the latter with each other, as set forth.

5 3. A fuse-plug having a casing of a non-conducting material, bolts held adjustably in the said casing and arranged to receive the terminals of circuit-wires, spring-plates held on the said bolts, and extending on opposite sides
10 of the casing, and a fuse-ring adapted to engage the free ends of the said plates, as set forth.

4. A fuse-plug having a casing of a non-conducting material and provided with a central
15 post having recesses on opposite sides, bolts held on the said casing, plates secured on the said bolts and having tongues engaging the said recesses, and a fuse-ring for engaging the free ends of the said plates, as set forth.

5. A fuse-plug having a casing provided 20 with a central post, a removable cover for the said casing, having a lug engaging a recess in the upper end of the said post, bolts held in the said casing and extending within the said cover, the bolts having means for con- 25 nection with the terminals of circuit-wires, metallic plates extending from the bolts, on opposite sides of the said casing-post, and a fuse-ring for engaging the said plates at their free ends, within the said cover, as set forth. 30

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

SIDNEY ROTHCHILD.

Witnesses:

HARVEY FLEMING,
JOHN C. BEHLMER.