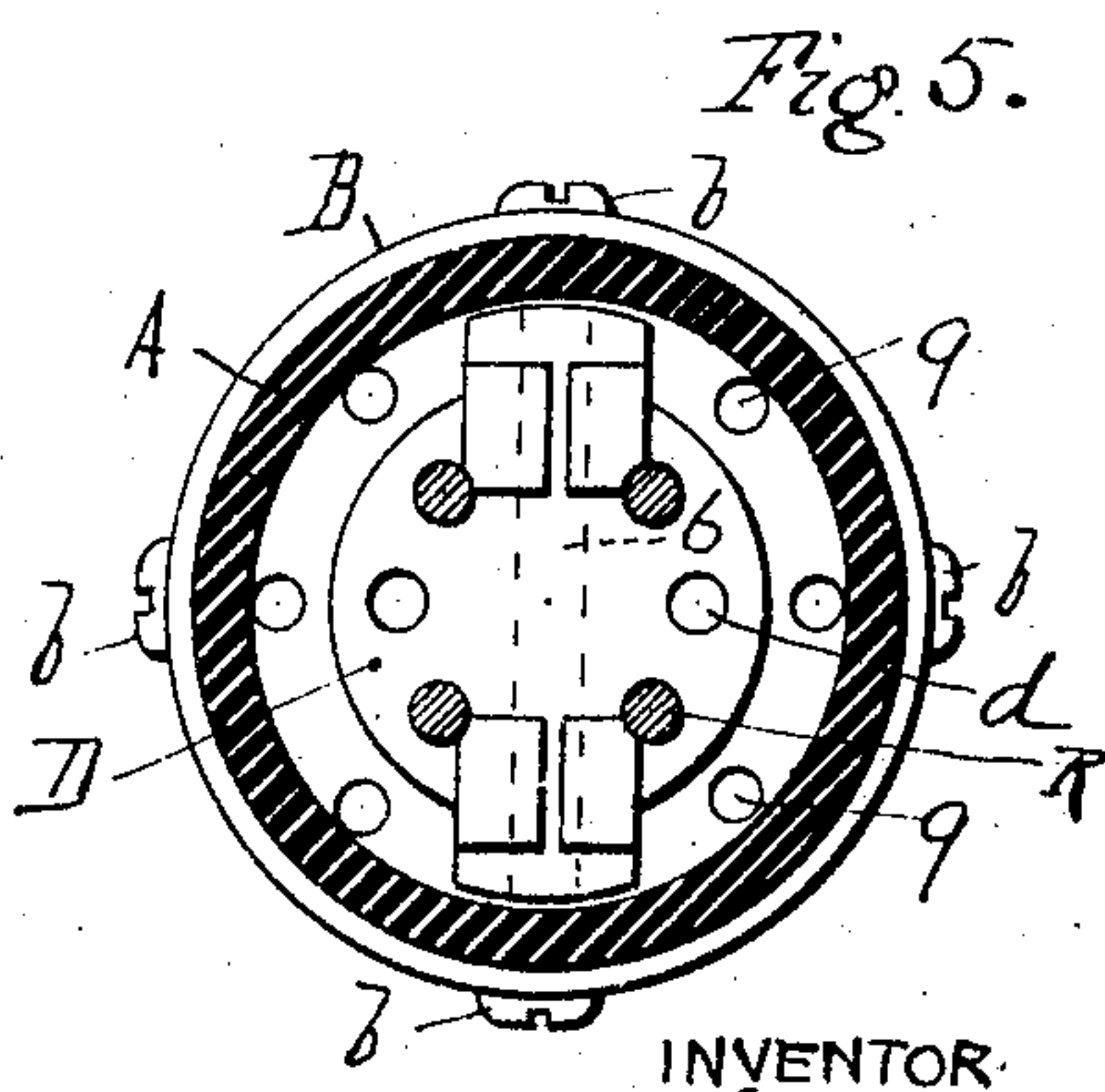
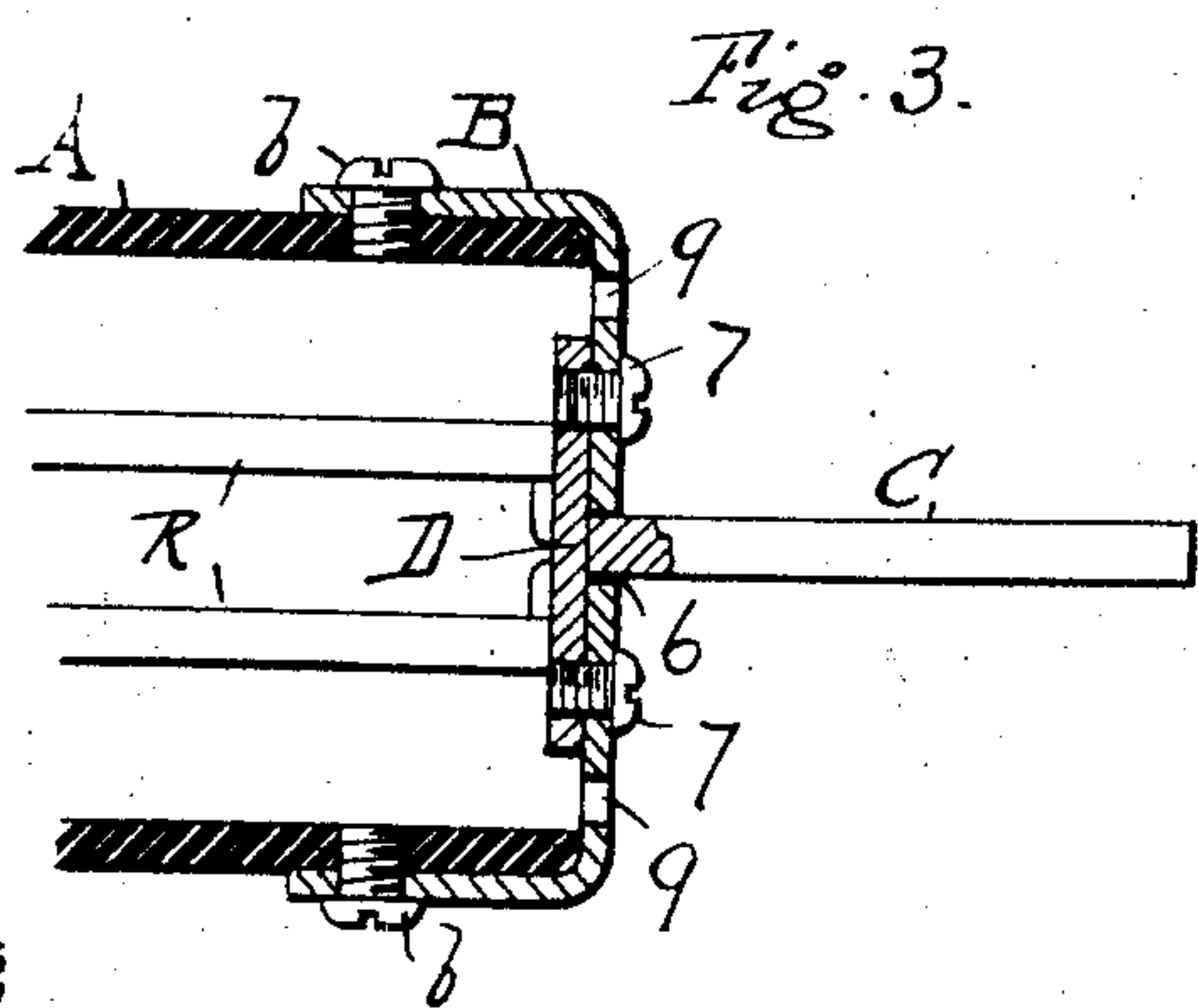
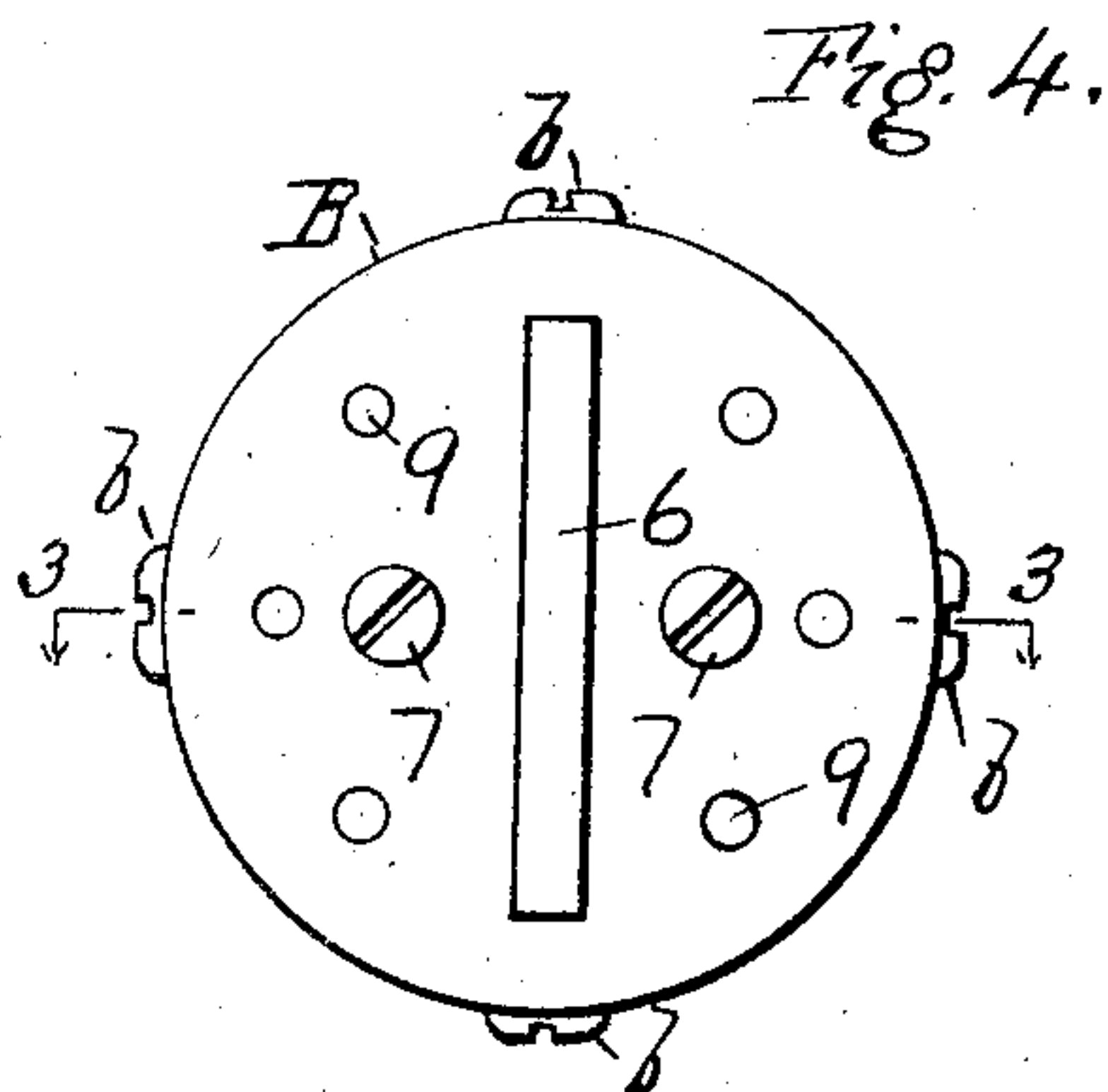
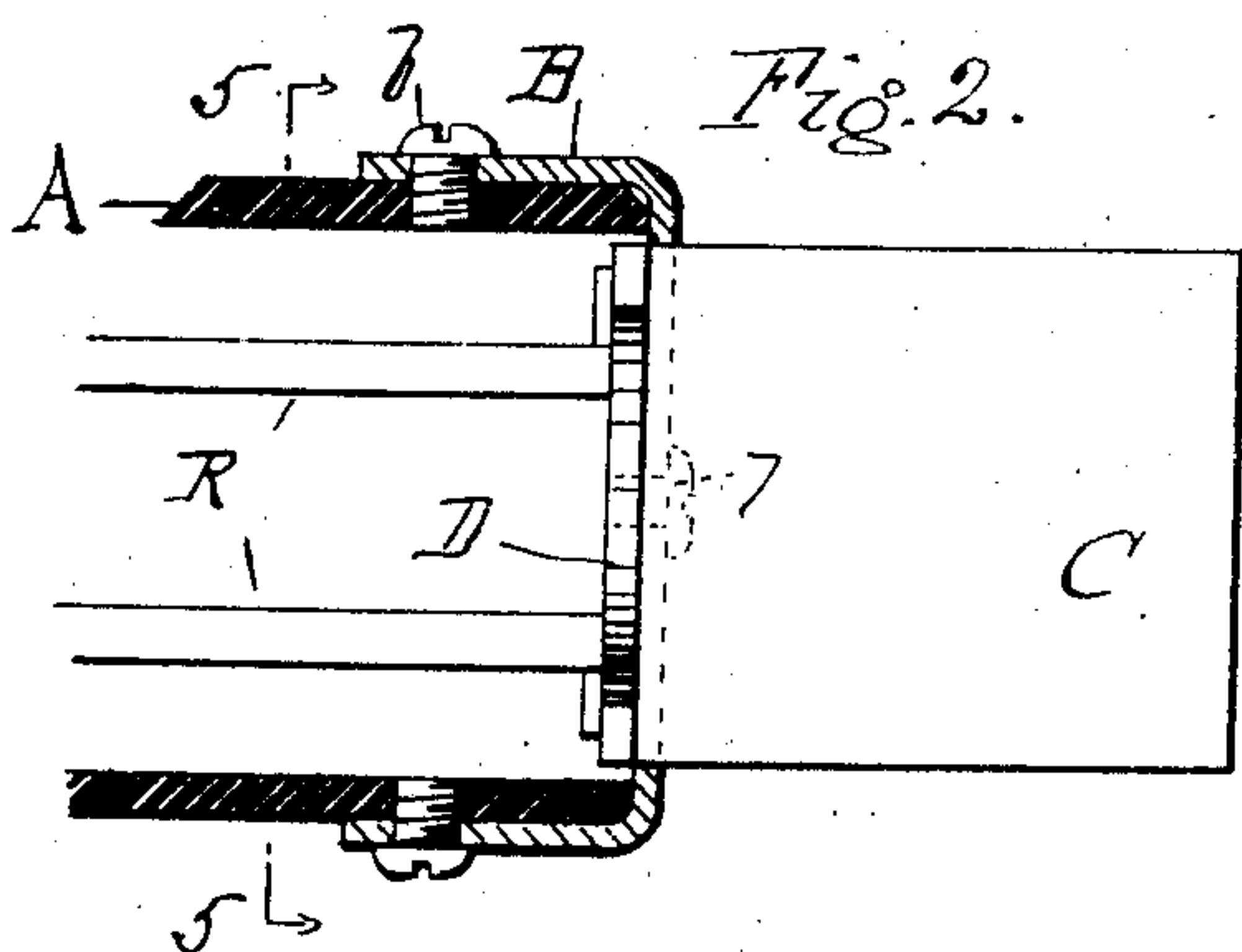
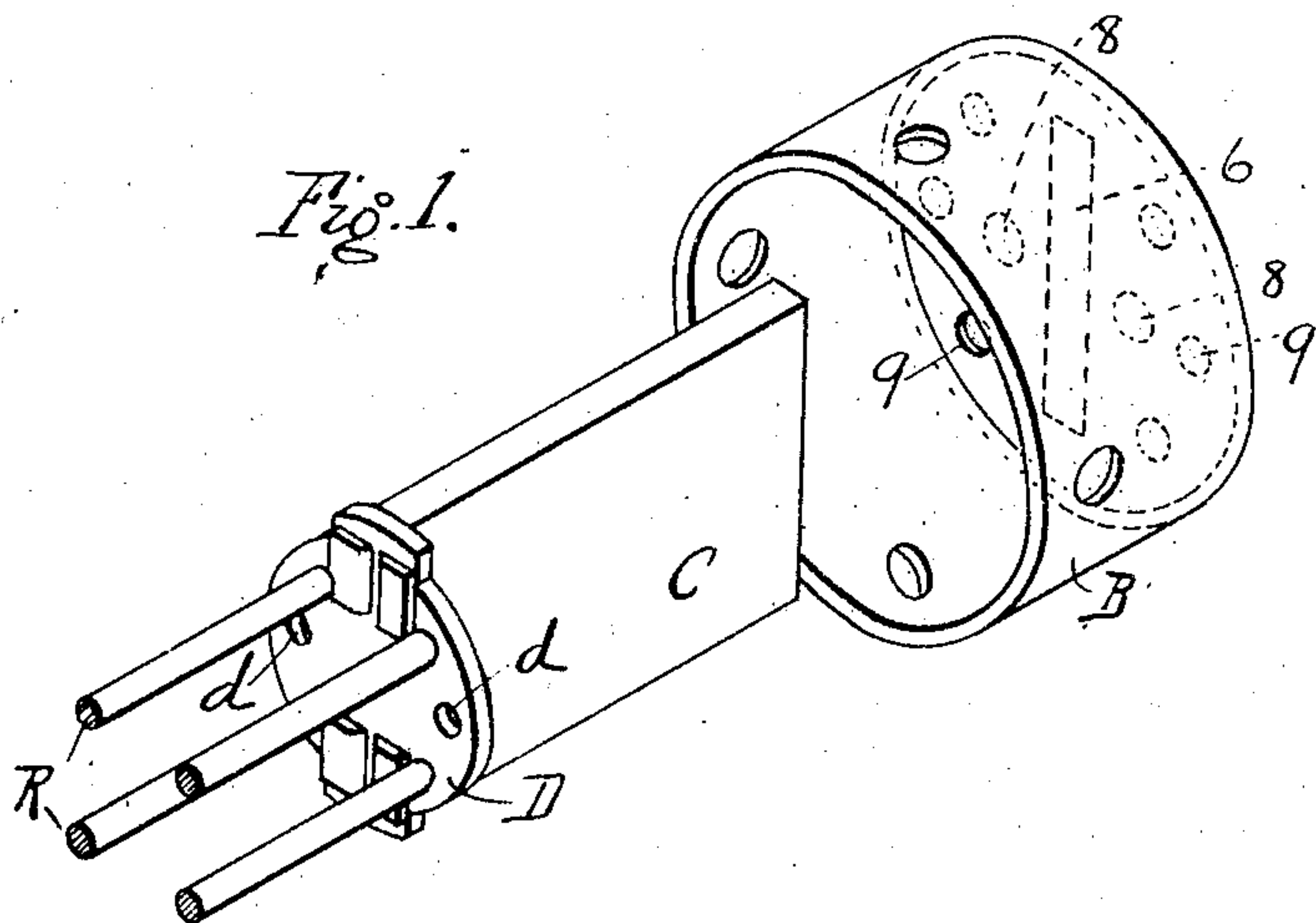


916,167.

Patented Mar. 23, 1909.



WITNESSES

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PHILIP S. KEEFER, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE BRYANT ELECTRIC COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

INCLOSED FUSE.

No. 916,167.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed August 6, 1906. Serial No. 447,253.

To all whom it may concern:

Be it known that I, PHILIP S. KEEFER, a citizen of the United States of America, residing in the city of Bridgeport, in the county of Fairfield, in the State of Connecticut, have invented a certain new and useful Improved Inclosed Fuse, of which the following is a specification.

The object of my invention is to so construct an inclosed fuse for electrical protective purposes that all soldering operations may be completed before the parts are assembled in the case, but at the same time the parts shall be secured firmly and rigidly together in the finished product.

In the accompanying drawings, Figure 1 is a perspective view illustrating parts before being assembled; Fig. 2 is a longitudinal sectional view of the end of an inclosed fuse in accordance with my invention; Fig. 3 is a similar view but taken in a plane perpendicular to the section Fig. 2, that is on the line 3—3, Fig. 4; Fig. 4 is an end view; Fig. 5 is a cross section on the line 5—5, Fig. 2.

In the accompanying drawings, I have shown my invention as applied to an inclosed fuse of the type in which the exterior contact members are in the form of blades projecting from the ends of the inclosed fuse, in a plane parallel with the axis of the fuse cartridge, and in the views I have illustrated only one end of the fuse, but it will be understood that the opposite end may be constructed in the same manner.

A is the tubular inclosing casing of hard vulcanized fiber or other suitable insulating material, provided with metal ferrules or caps B fitting over its ends and secured thereto by headed screws *b* passing through openings in the caps and threaded into the tubular casing.

The end caps are provided with slots 6, for the passage through them of the terminal blades C, each of which is secured by riveting,

and solder or other suitable means to an end plate D. The rods R to which the fuse links are connected by solder or otherwise are mechanically secured and soldered to the inner face of each end plate D, the outer face of which is adapted to bear against the inner face of the corresponding cap B.

Each plate D is provided with two threaded holes *d, d*, for the reception of the threaded ends of headed securing screws 7, 7, which are inserted from the outside of the cap through holes 8, 8, provided for the purpose, so as to draw the plates firmly up to their caps after the parts have been assembled. Additional holes 9 are formed in each cap to serve as vents.

By the above described construction, all the soldering of the parts together can be effected for both ends of the fuse (the links to the rods, the latter to the end plates and the blades to the latter) before the parts are assembled, and then it is only necessary to pass the caps over the blades and over the ends of the inclosing casing, and then by the screws 7, 7, draw the parts firmly together and further secure the caps to the casing by the screws *b*.

I claim as my invention:—

An inclosed fuse, having a tubular casing and a metallic cap to close the end thereof with an internal end plate to which the links are electrically connected, a blade secured to the end plate and projecting through an opening in the cap and headed screws passing through holes in the end of the cap into the end plate to draw the latter firmly up to the inner face of the cap.

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

PHILIP S. KEEFER.

Witnesses:

G. W. GOODBRIDGE,
F. E. SEELEY.