

F. P. POOLE.  
INCLOSED FUSE.  
APPLICATION FILED DEC. 17, 1908.

931,477.

Patented Aug. 17, 1909.

Fig. 1

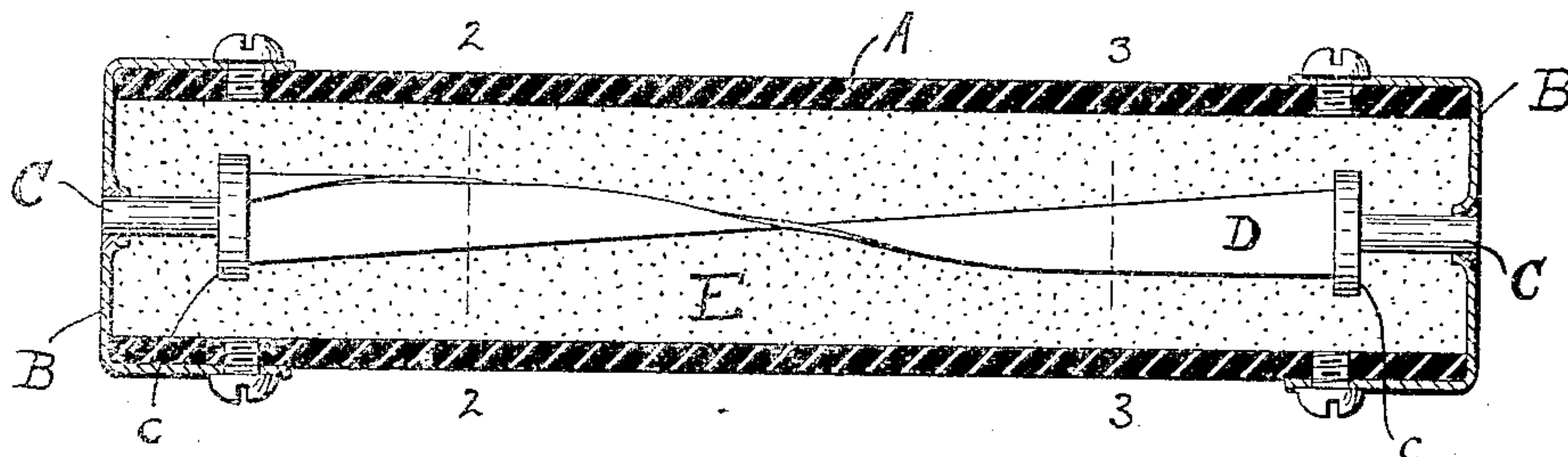


Fig. 2



Fig. 3

Fig. 4

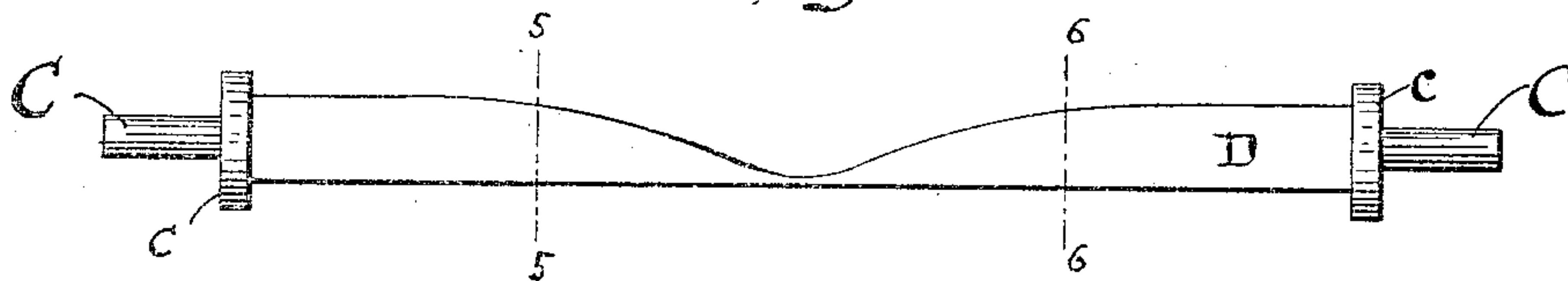


Fig. 5



Fig. 7

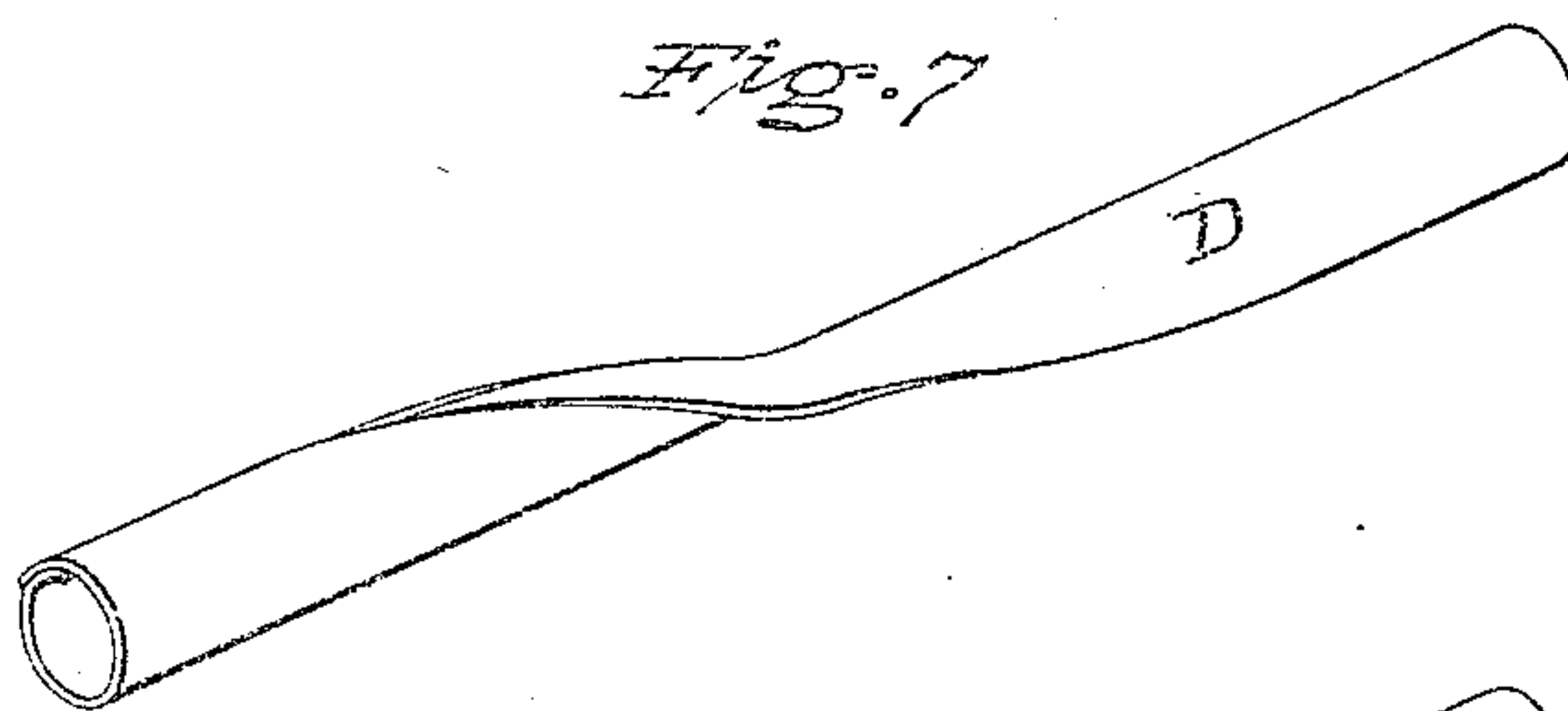
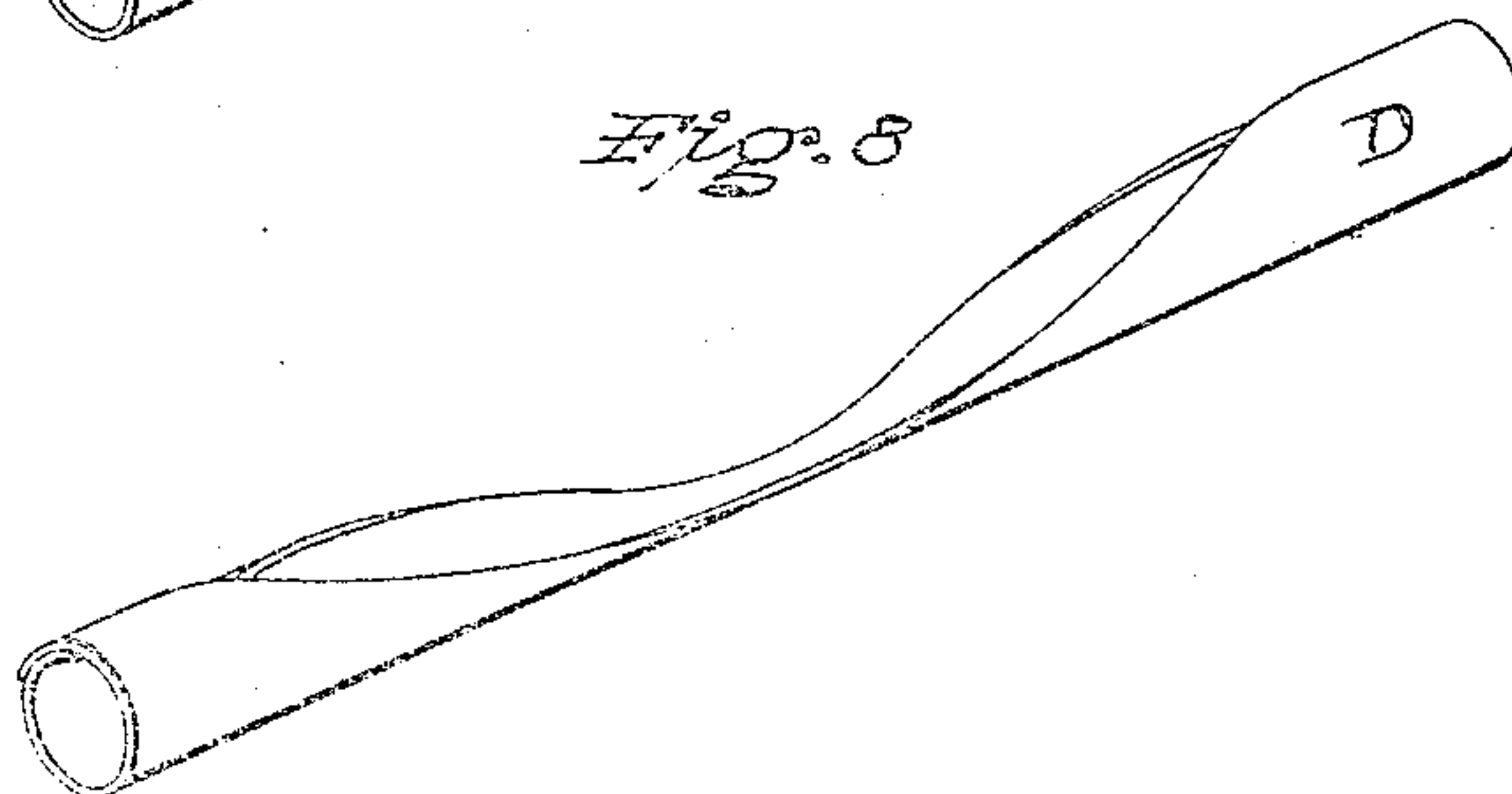


Fig. 6



Fig. 8



WITNESSES

d. H. Grote  
Walter Abbe

INVENTOR

Frederick P. Poole  
BY Hanson and Hanson  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

FREDERICK P. POOLE, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE BRYANT ELECTRIC COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

## INCLOSED FUSE.

No. 931,477.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed December 17, 1908. Serial No. 468,003.

*To all whom it may concern:*

Be it known that I, FREDERICK P. POOLE, a citizen of the United States of America, and residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented a certain new and Improved Inclosed Fuse, of which the following is a specification:

The object of my invention is to provide an inclosed fuse having a fuse link of improved type, easily assembled with the casing and caps, and adapted to be cut without waste from sheet metal.

In the accompanying drawings in which my invention is illustrated, Figure 1 is a cross section of a cartridge fuse showing my improved style of fuse link; Figs. 2 and 3 are sections on the lines 2—2 and 3—3 respectively, Fig. 1; Fig. 4 is a side elevation of the fuse link in another form; Figs. 5 and 6 are sections on the lines 5—5 and 6—6 respectively, Fig. 4; and Figs. 7 and 8 are perspective views of the fuse links shown in Figs. 1 and 4 respectively.

The usual inclosing sheath A of insulating material is shown in Fig. 1, with contact caps B and conducting rods C between which the link D extends. In my improved form this link D is made from a flat strip of metal cut away on both sides and from each end toward the middle to form a blank approximating in appearance superposed triangles, the upper inverted, and joined at their apexes. The fusing point of the link is thus formed at the meeting of the apexes of the triangles. Before mounting the link on the buttons c of the conducting rods C, I roll up the ends of the blank lengthwise of its axis.

It is immaterial whether the ends be rolled in the same direction or not. Thus in Fig. 1 the left hand end is rolled up and the right hand end down. In Fig. 4 both ends are rolled up.

Other variations of form will readily suggest themselves.

This construction is advantageous because firstly it permits of employing a wider strip of metal in a cartridge of given diameter than would be possible were the blank not rolled as described, secondly the blanks may be shaped so as to be cut without waste from large sheets of metal, and thirdly the rolled ends are readily fitted and held in the buttons c while soldering or otherwise securing the same together. Again the granular material E may be placed in the fuse after the same has been completely assembled with the exception of one cap, as distinguished from the tubular links which must be filled before they are secured between the buttons c.

I claim as my invention:

An inclosed fuse having a sheath with conductors and between the conductors a link piece, the edges of which are cut away to form a fusing point, intermediate the ends and the latter rolled, substantially as described.

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

FREDERICK P. POOLE.

Witnesses:

G. W. GOODRIDGE,  
H. W. GOLDSBOROUGH.