

No. 875,376.

PATENTED DEC. 31, 1907.

J. G. PETERSON.
HANDLE FOR ROTARY SNAP SWITCHES.

APPLICATION FILED NOV. 21, 1905.

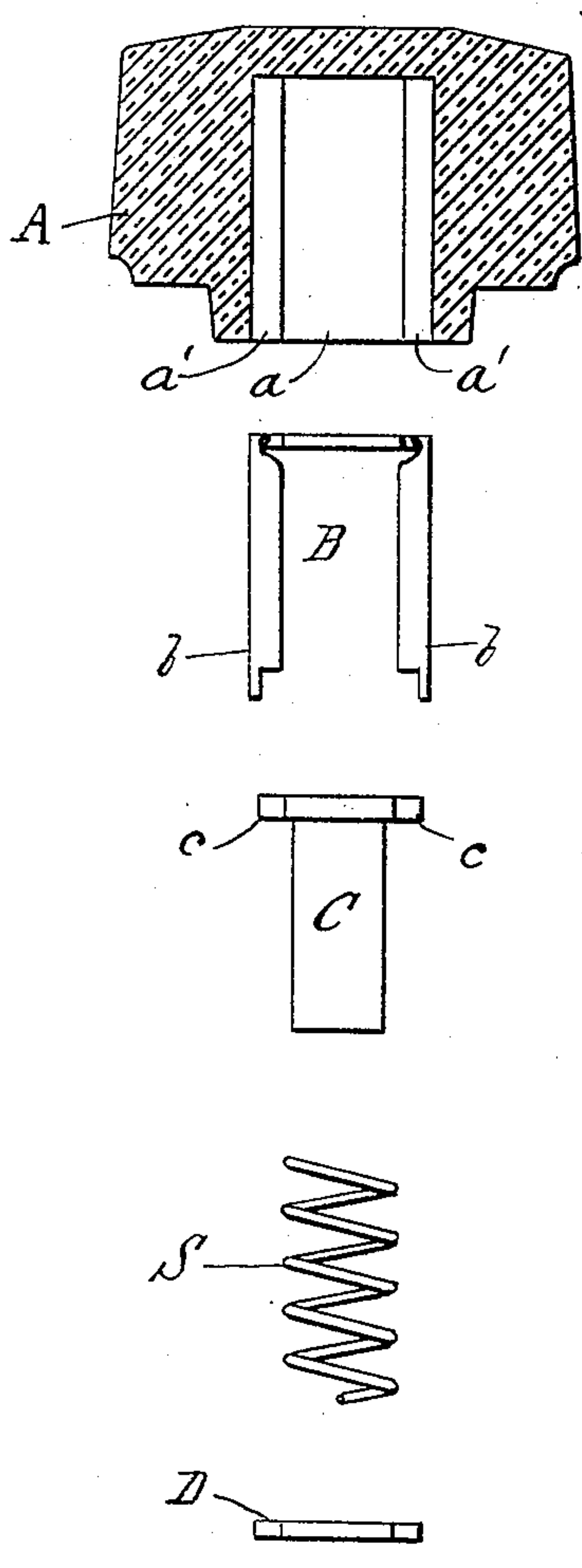


Fig. 1.

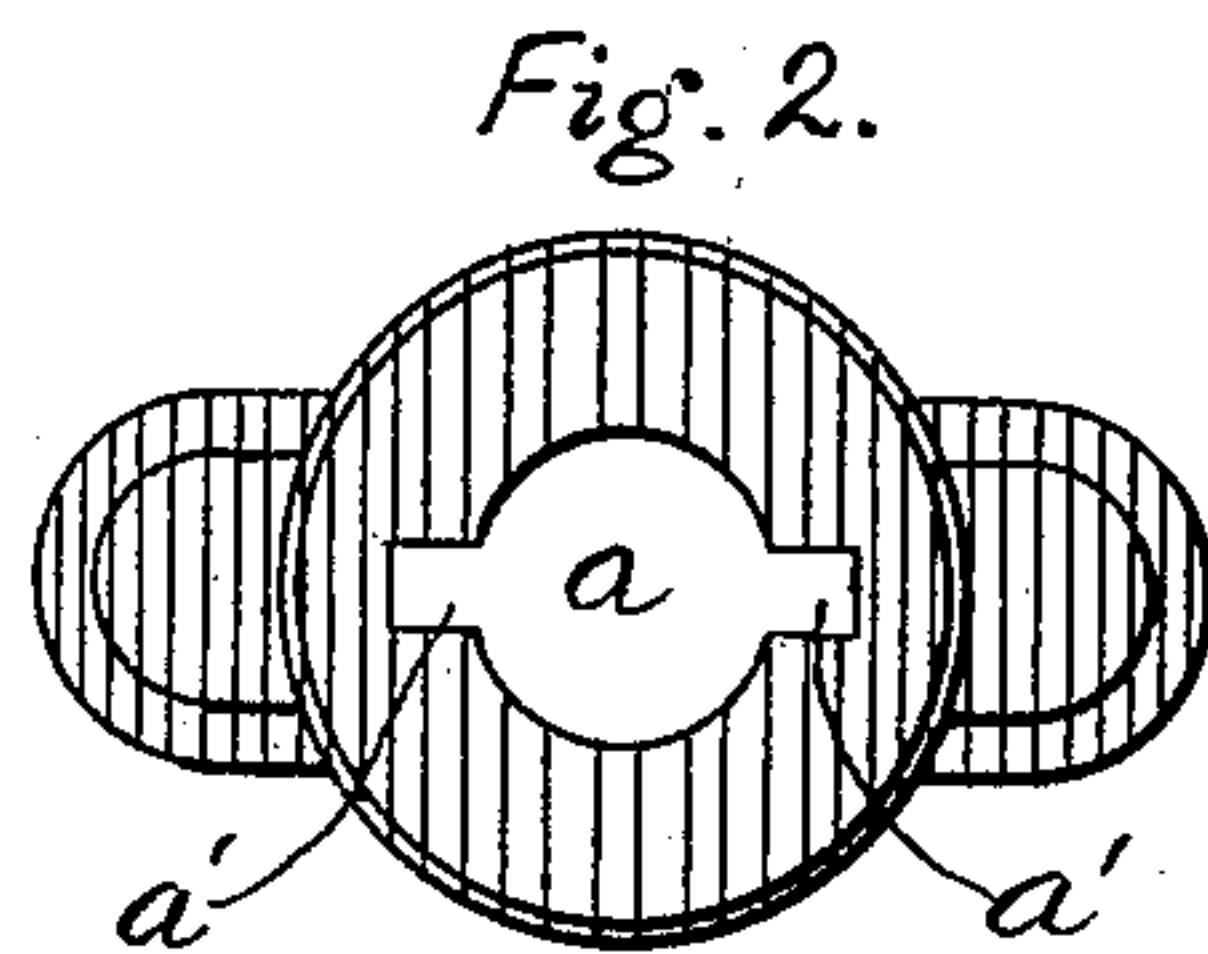


Fig. 2.

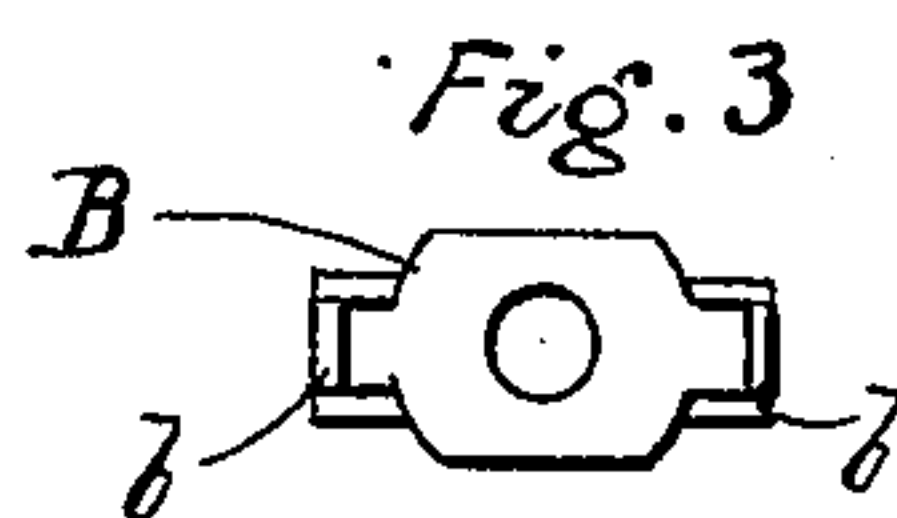


Fig. 3.

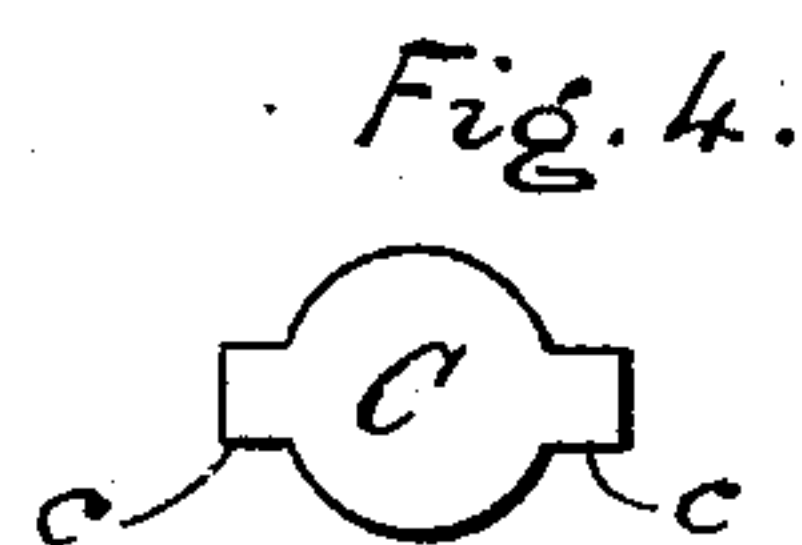


Fig. 4.

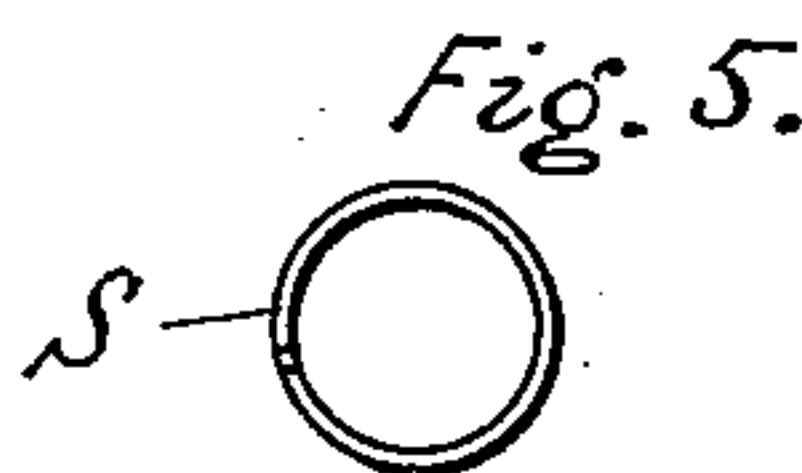


Fig. 5.

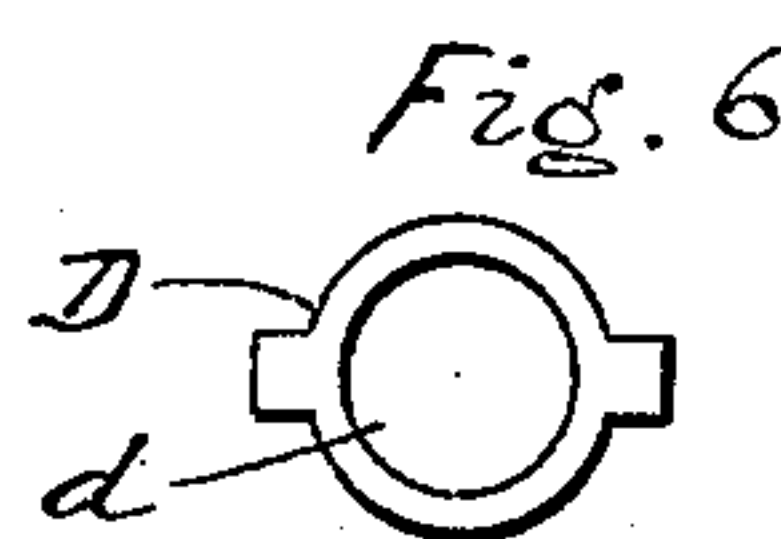


Fig. 6.

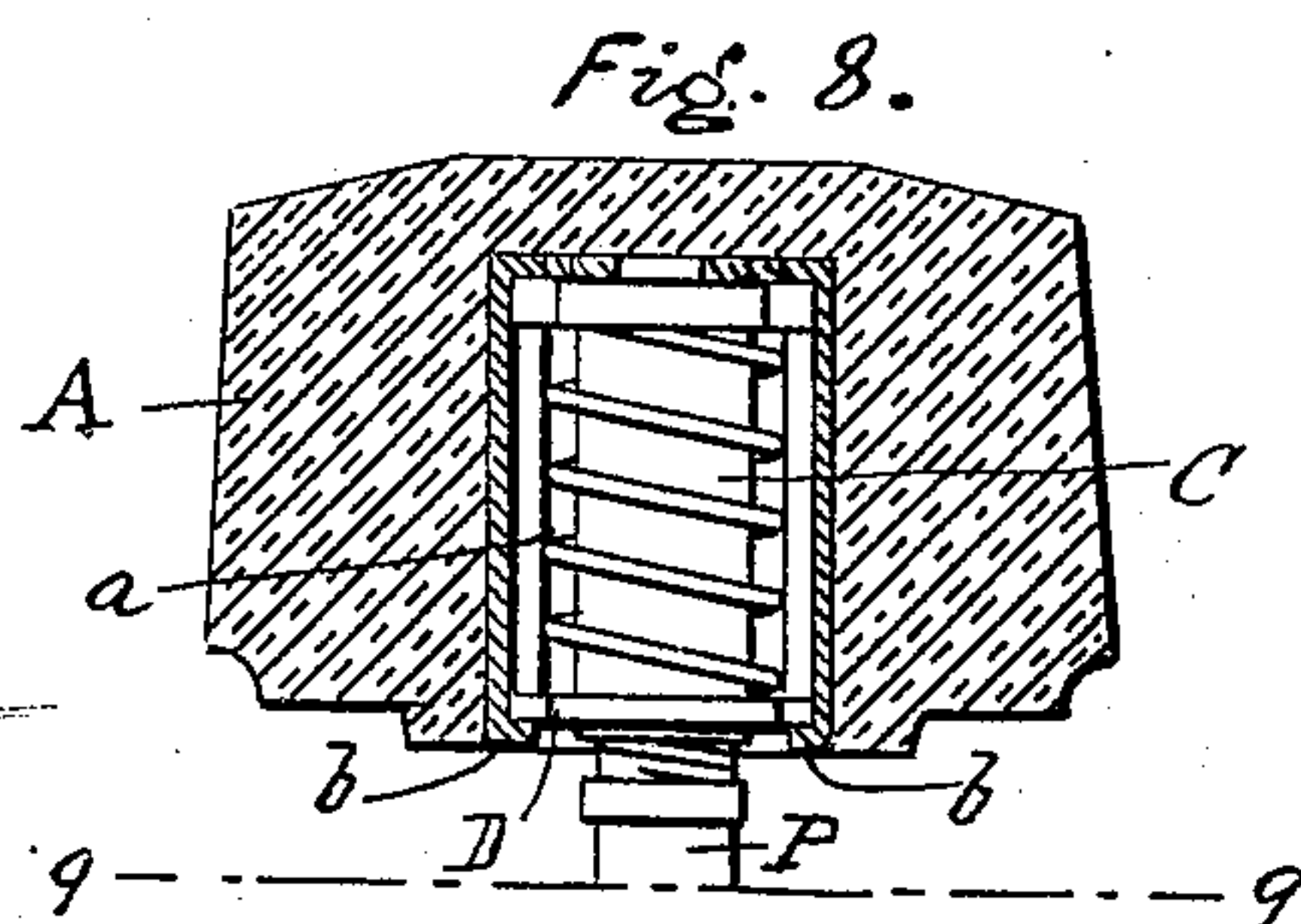


Fig. 8.

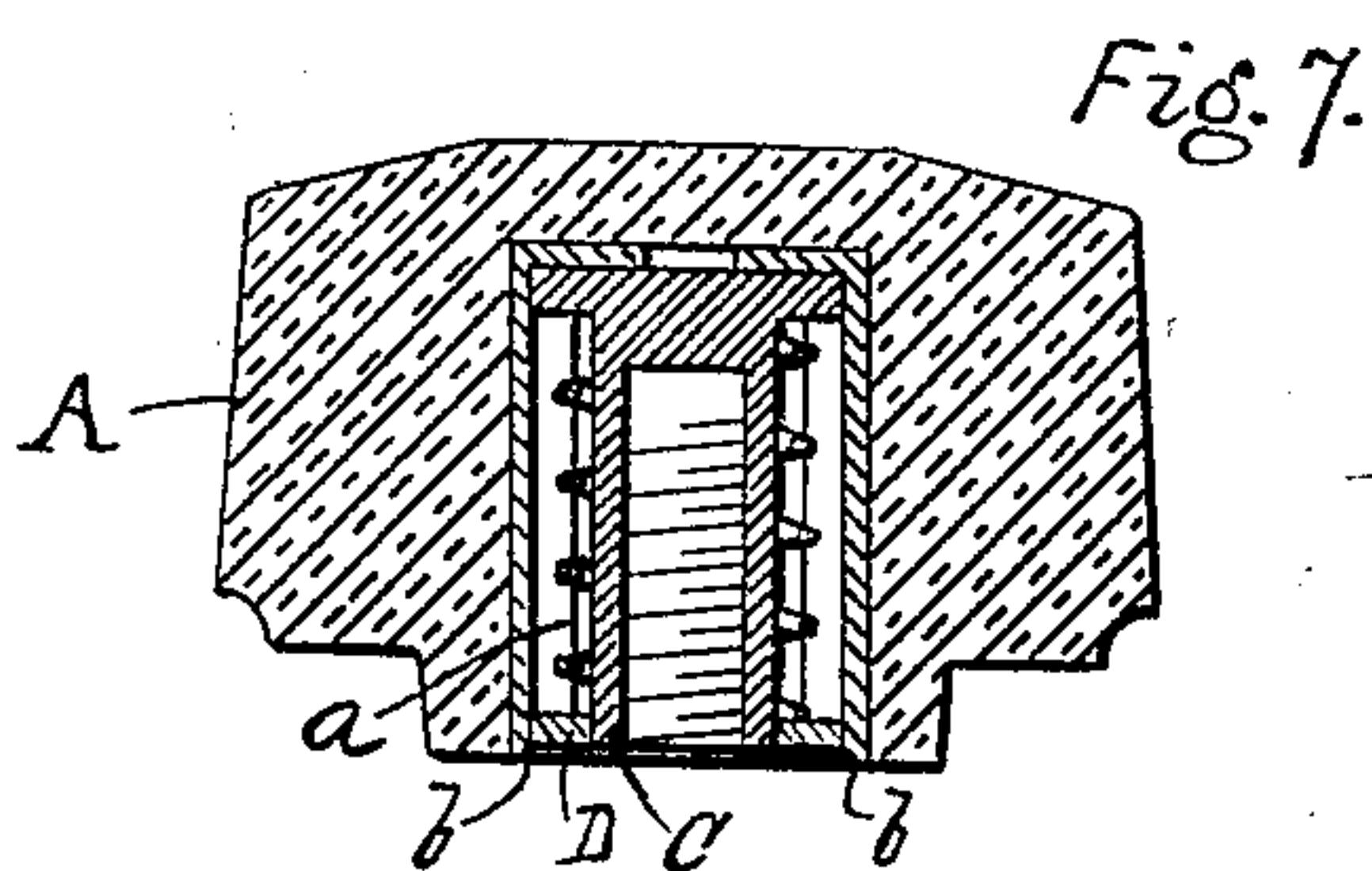


Fig. 7.

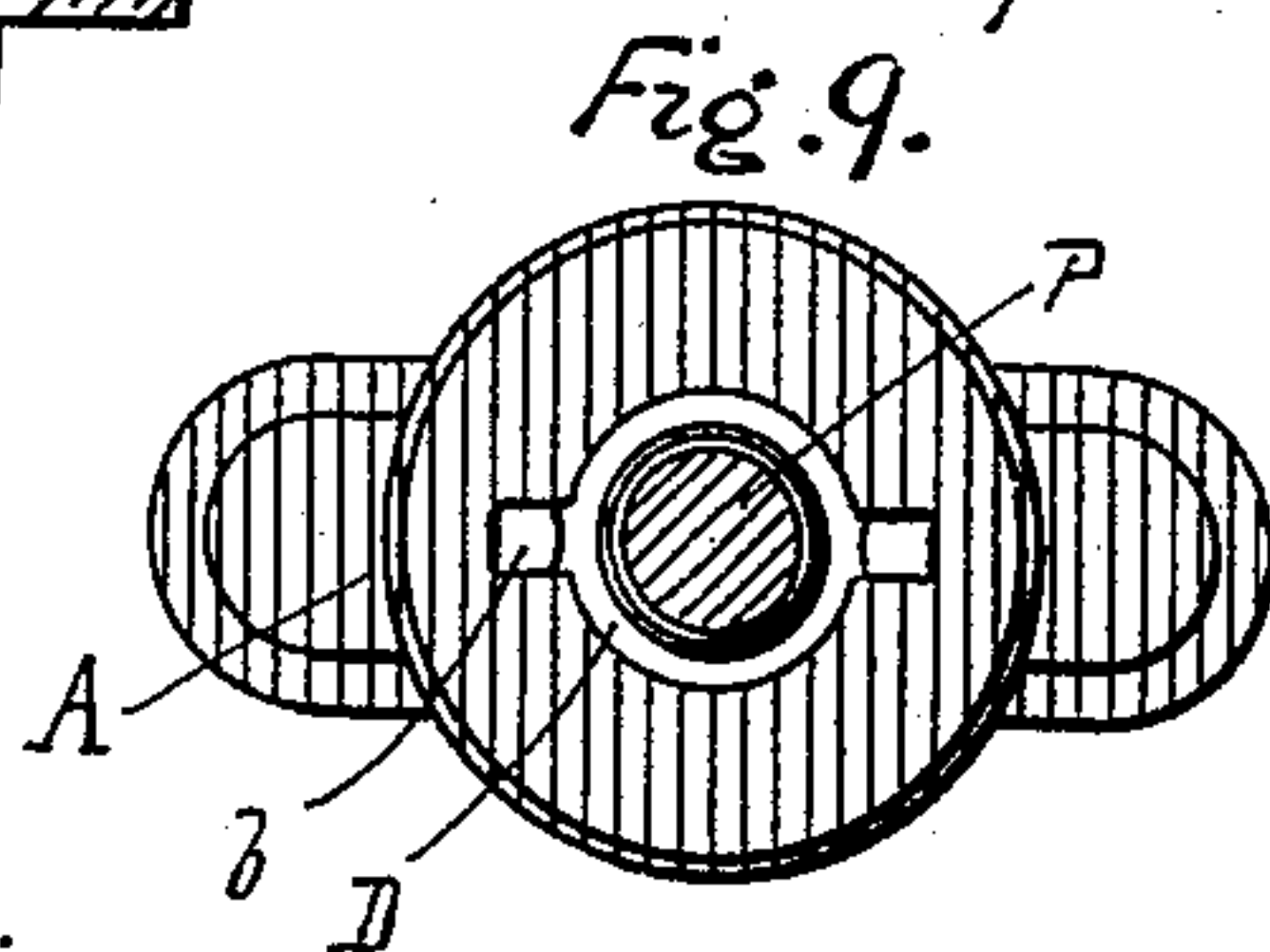


Fig. 9.

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JOHANN GODFREY PETERSON, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE PERKINS ELECTRIC SWITCH MANUFACTURING COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

HANDLE FOR ROTARY SNAP-SWITCHES.

No. 875,376.

Specification of Letters Patent.

Patented Dec. 31, 1907.

Application filed November 21, 1905. Serial No. 288,403.

To all whom it may concern:

Be it known that I, JOHANN GODFREY PETERSON, a citizen of the United States of America, residing in the city of Bridgeport, in the county of Fairfield, State of Connecticut, have invented an Improved Handle for Rotary Snap-Switches, of which the following is a specification.

My invention relates more particularly to that class of handles or turn buttons for rotary snap switches which are secured to and operate the central spindles of the switch mechanisms and at the same time hold the inclosing caps with a yielding pressure. The object of my invention is to construct a strong and efficient handle of this character.

In the accompanying drawings: Figure 1 is a view of the several parts of my improved handle, ready to be assembled, the handle body being shown in section; Fig. 2 is an inverted plan view of the handle body; Fig. 3 is a similar view of the guide to be embedded in the handle body; Fig. 4 is an end view of the plunger; Fig. 5 is an end view of the spring; Fig. 6 is a view of the retaining ring; Fig. 7 is a section through the handle, showing the parts assembled, but before they are secured in place; Fig. 8 is a similar view of the parts when the handle has been completed; and Fig. 9 is a section on the line 9—9, Fig. 8.

The body A of the handle is preferably molded of suitable insulating material and it is formed with a central hole *a* closed at the top of the handle, but open at the bottom. In the side walls of this hole I secure by embedding in the molded composition a guide B, whose legs *b, b*, are about as long as or longer than the depth of the hole. The cross section of the hole is polygonal and

preferably somewhat cylindrical with radiating grooves *a'* to receive the channeled legs *b* of the guide B, which channeled legs receive and guide the wings of the head *c* (Fig. 4) of the plunger C. The plunger C is sufficiently reduced in diameter below its head to leave room for the spiral spring S around it. This spring is to be confined between the head of the plunger and the ring D, which has a central opening *d* of a size to just permit the reduced part of the plunger C to play through it. The ring D is secured in place by bending down the projecting ends (Fig. 1) of the legs *b, b*, (Fig. 8) of the guide B, which has been fixedly embedded in the handle body in the molding of the latter. The lower end of the plunger C has a screw-threaded hole in it to receive the threaded upper end of the operating spindle P (Fig. 8) of the switch mechanism.

One of the advantages of employing a yoke B instead of a tube is that the yoke is less liable to cause cracking of the composition of the handle as it cools when first molded onto the yoke.

I claim as my invention

The insulating body of a rotary snap switch handle having a hole with radiating grooves, and a yoke whose legs are in the grooves, in combination with a plunger having wings guided in said grooves, a spring and a retaining ring held in position by the bent ends of the yoke.

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

JOHANN GODFREY PETERSON.

Witnesses:

G. W. GOODRIDGE,
GEO. B. THOMAS.