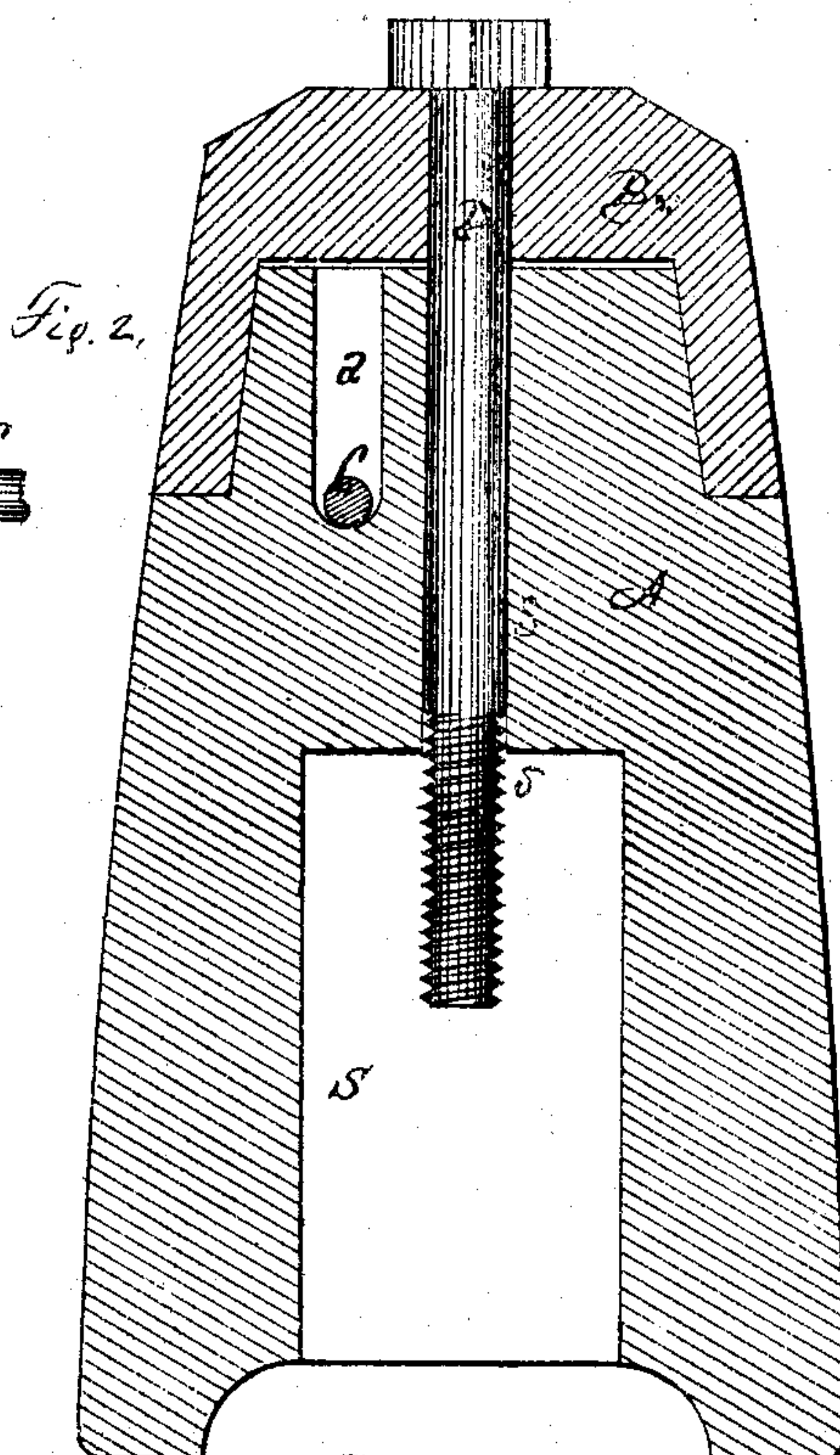
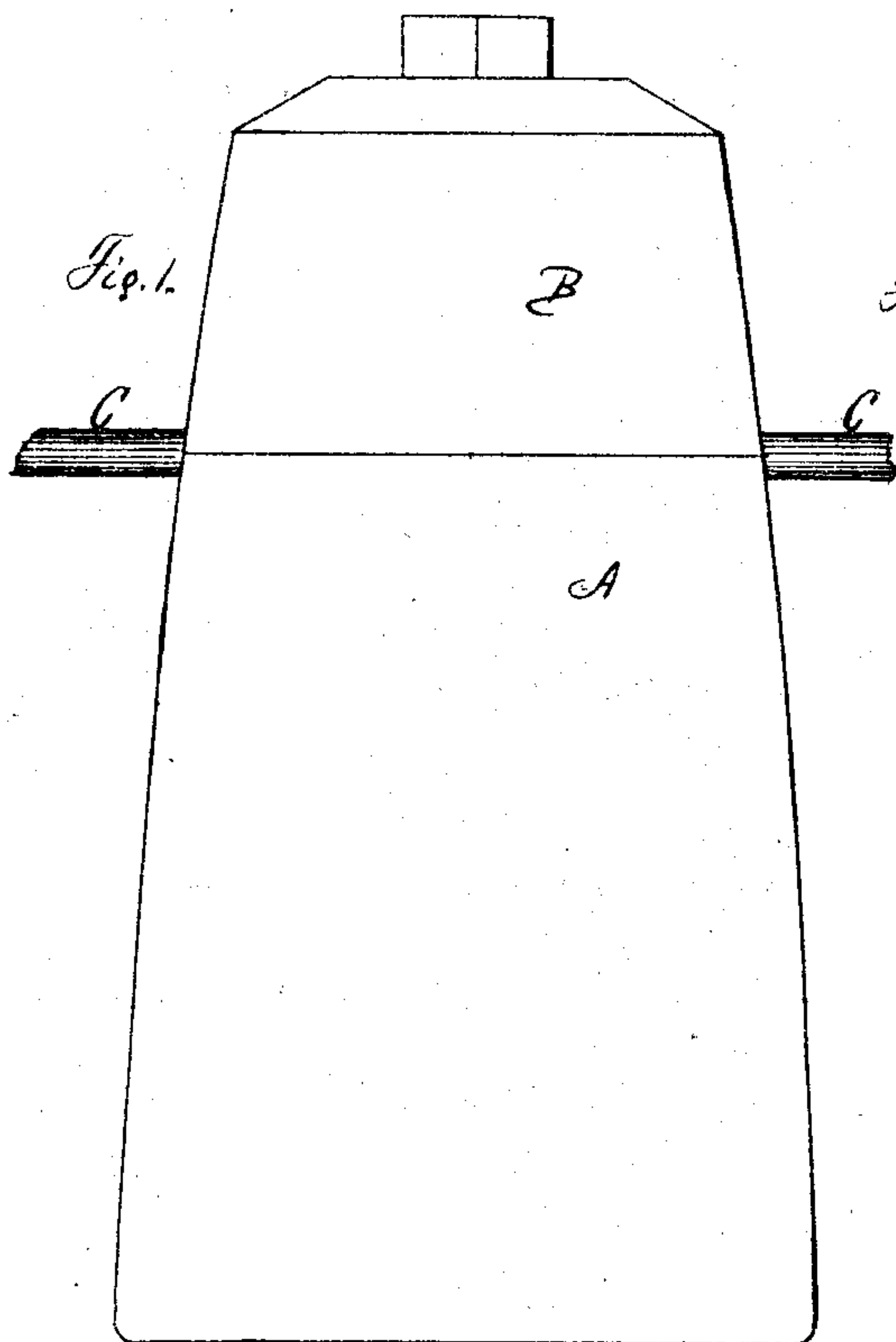
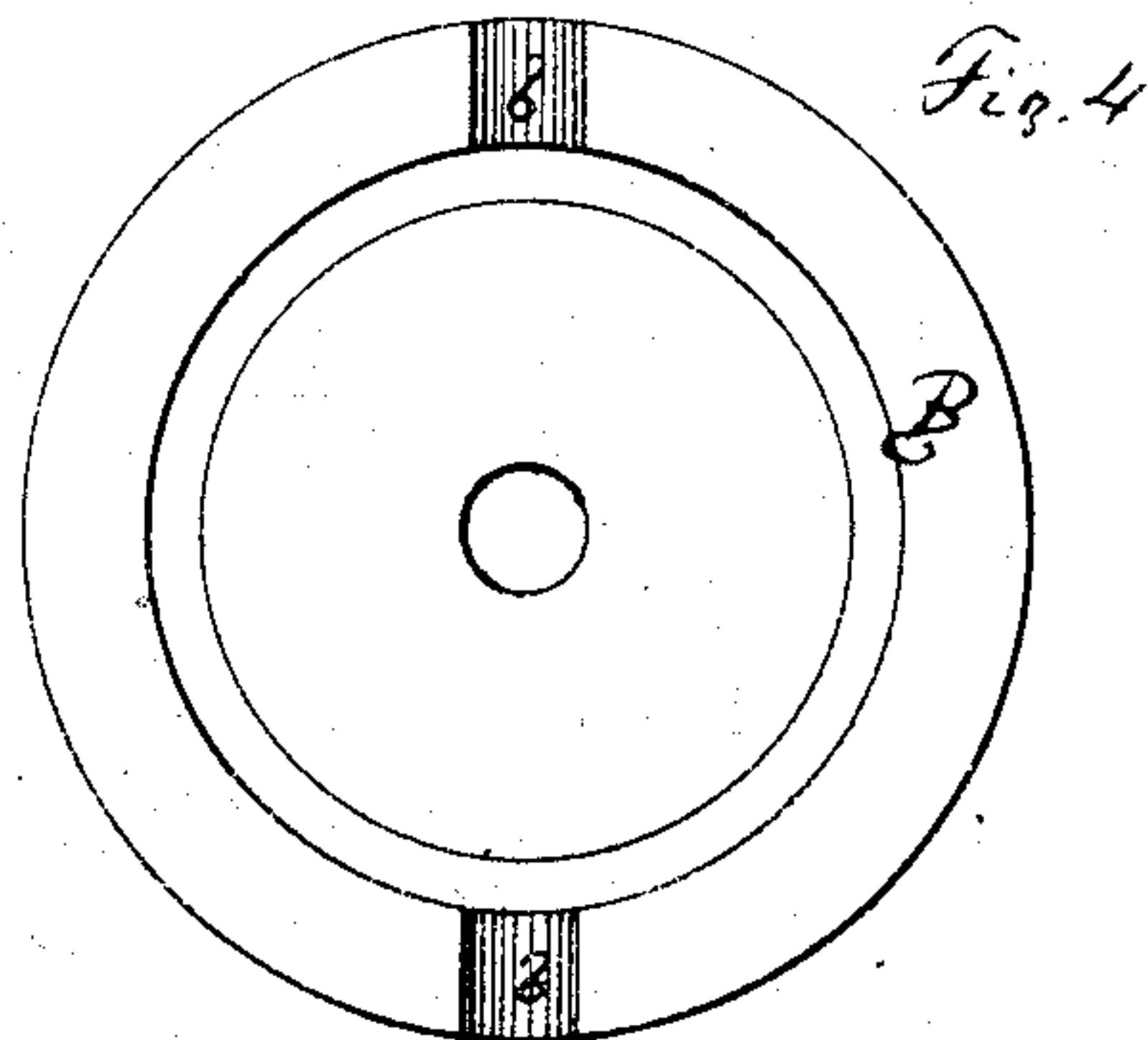
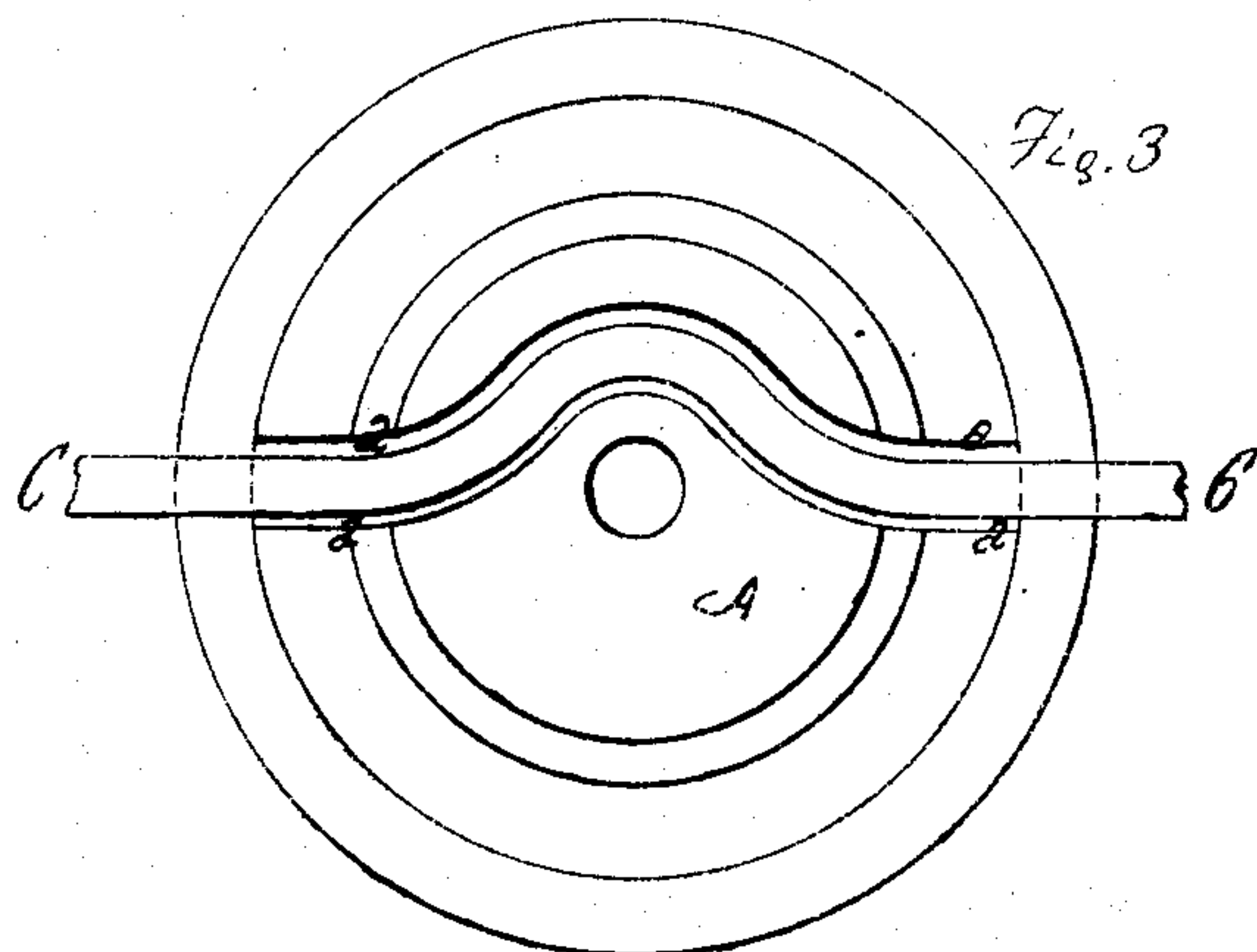


E. A. MERRELL.
Insulators for Telegraph Lines.

No. 138,512.

Patented May 6, 1873.



Witnesses

George G. Sill
 Frank G. Fuller

Inventors.

Edward A. Merrell
 By W. E. Simonds
 Atty.

UNITED STATES PATENT OFFICE.

EDWARD A. MERRELL, OF EAST LYME, CONNECTICUT.

IMPROVEMENT IN INSULATORS FOR TELEGRAPH-LINES.

Specification forming part of Letters Patent No. **138,512**, dated May 6, 1873; application filed October 19, 1872.

To all whom it may concern:

Be it known that I, EDWARD A. MERRELL, of East Lyme, in the county of New London and State of Connecticut, have invented certain new and useful Improvements in Telegraph-Insulators, of which the following is a specification, reference being had to the accompanying drawing, in which—

Figure 1 is an elevation or view of the complete insulator. Fig. 2 is a central vertical section of the same. Fig. 3 is a top view of the insulator with its cap removed. Fig. 4 is a view looking into the cap, which is turned upside down.

The insulator is made of glass or other non-conducting material, and is composed of the body A and the cap B which fits upon the body A. There is a groove, *a*, in the top of the body, in which lies the wire C. This groove is curved so as to hold the wire firm from slipping sidewise. The cap B fits down upon

the top of the body A and holds the wire down. This cap has half-circular grooves *b* cut into it where the wire passes out. The other half of the wire sets into the body A. The letter D indicates a screw-bolt, which passes down through the cap B and body A and screws into the common wooden pin, which pin fits up into the recess S.

I claim as my invention—

The combination of the body A, made of insulating material, having the cavity S for a supporting-pin and the curved groove *a*, the cap B made of insulating material and the screw-bolt D, the whole constructed, arranged, and designed for use, substantially as and for the purpose set forth.

EDWARD A. MERRELL.

Witnesses:

WM. E. SIMONDS,
W. B. RIPLEY.