

No. 674,999.

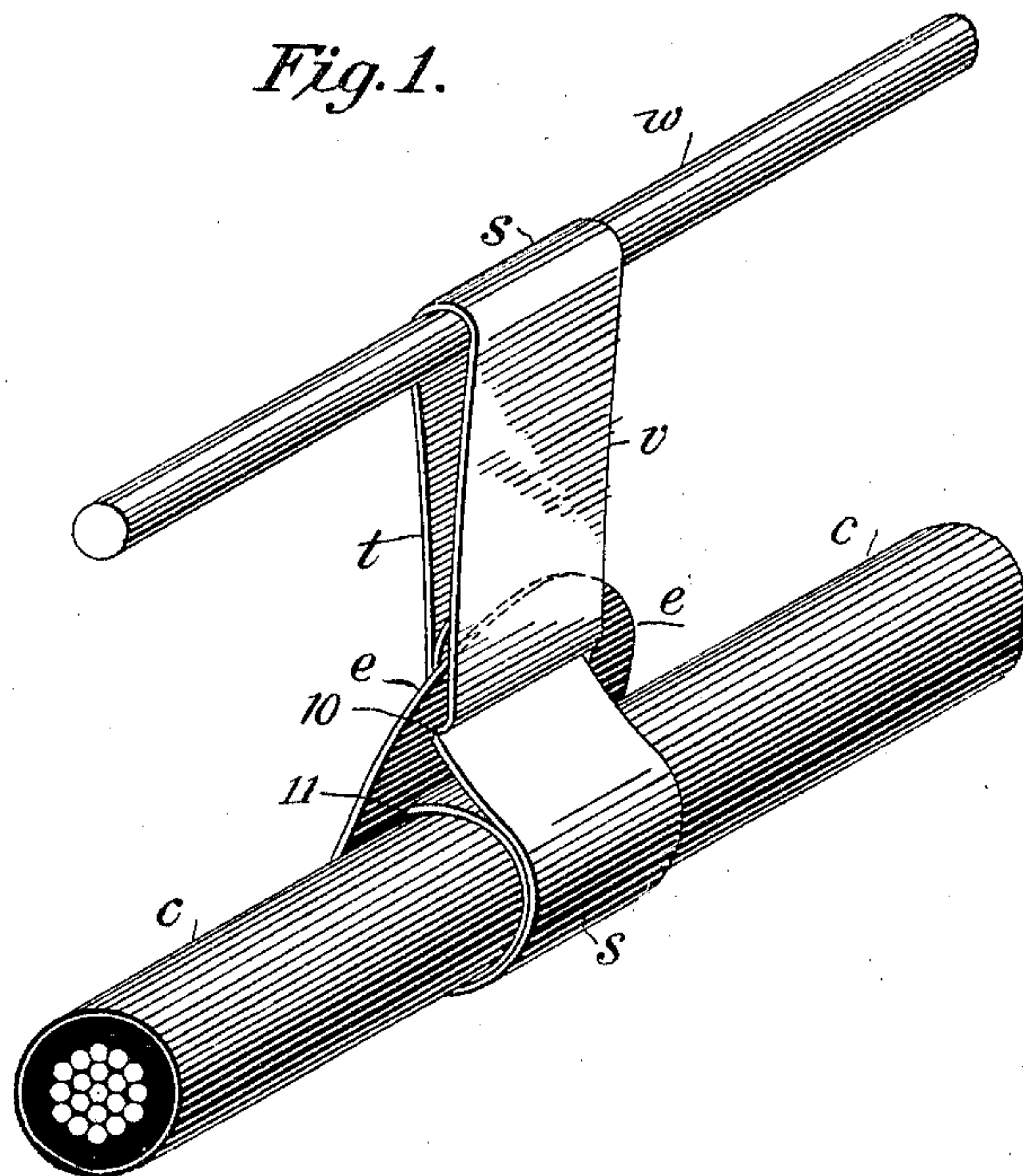
Patented May 28, 1901.

H. P. COPELAND.  
CABLE SUPPORTING CLIP.

(Application filed Mar. 26, 1901.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses  
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H. P. COPELAND,  
CABLE SUPPORTING CLIP.

(Application filed Mar. 26, 1901.)

(No Model.)

2 Sheets—Sheet 2.

Fig. 2.

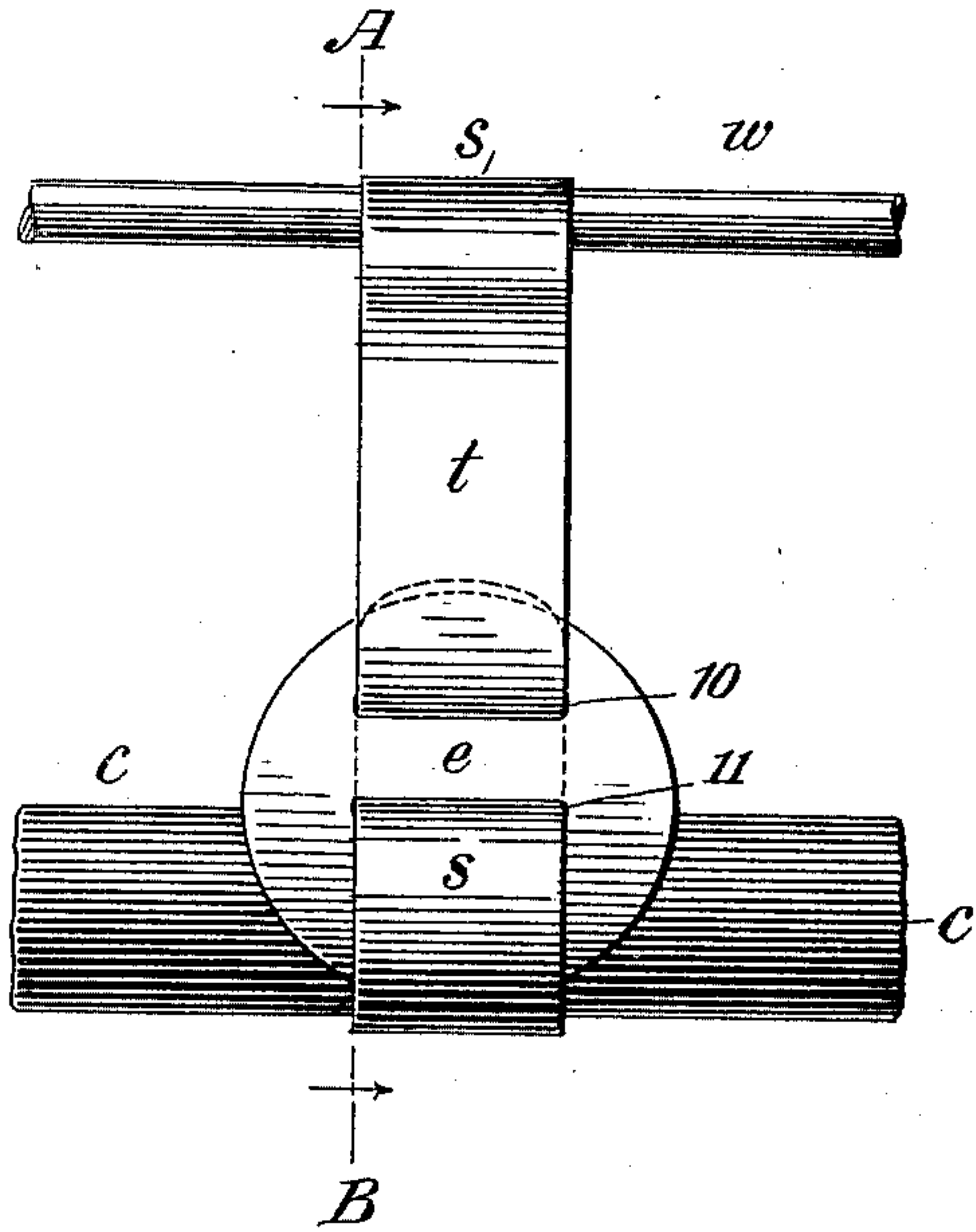


Fig. 4.

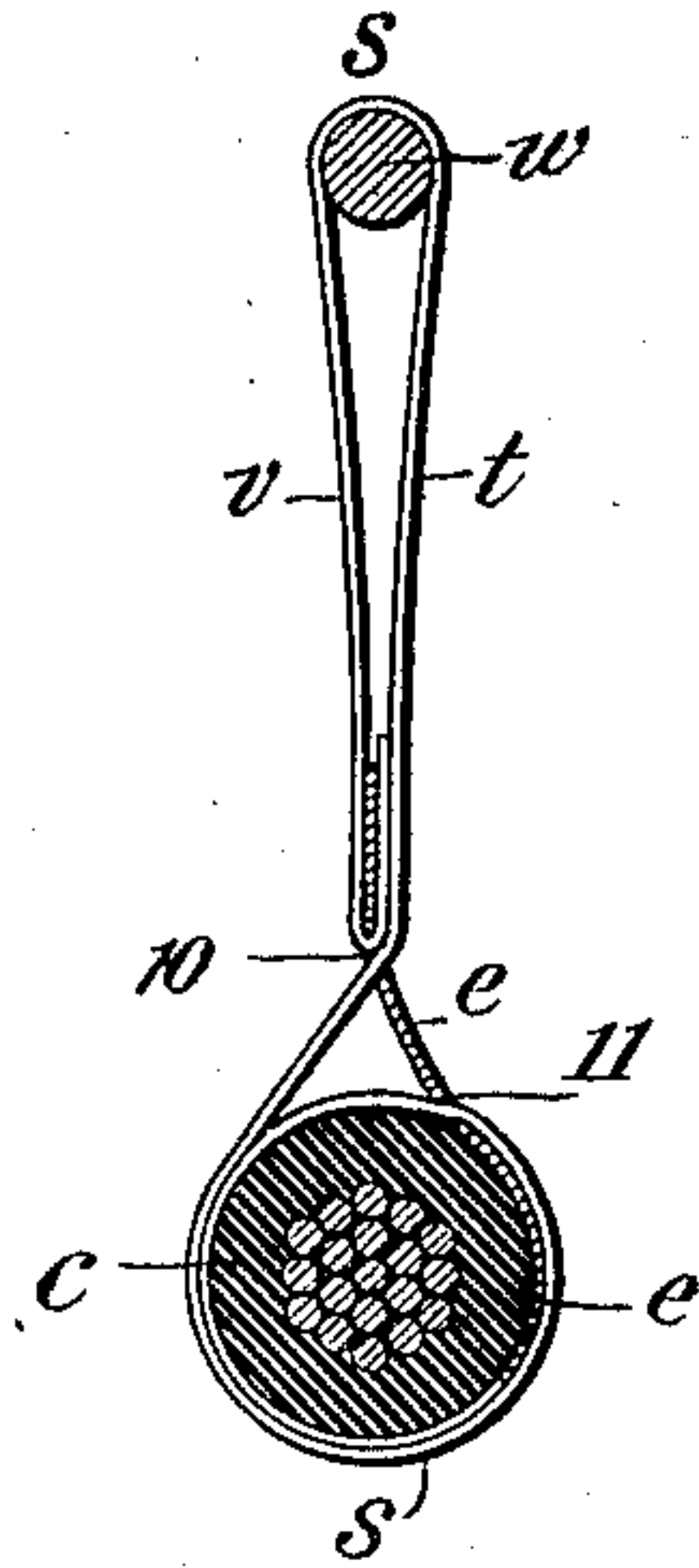


Fig. 3.

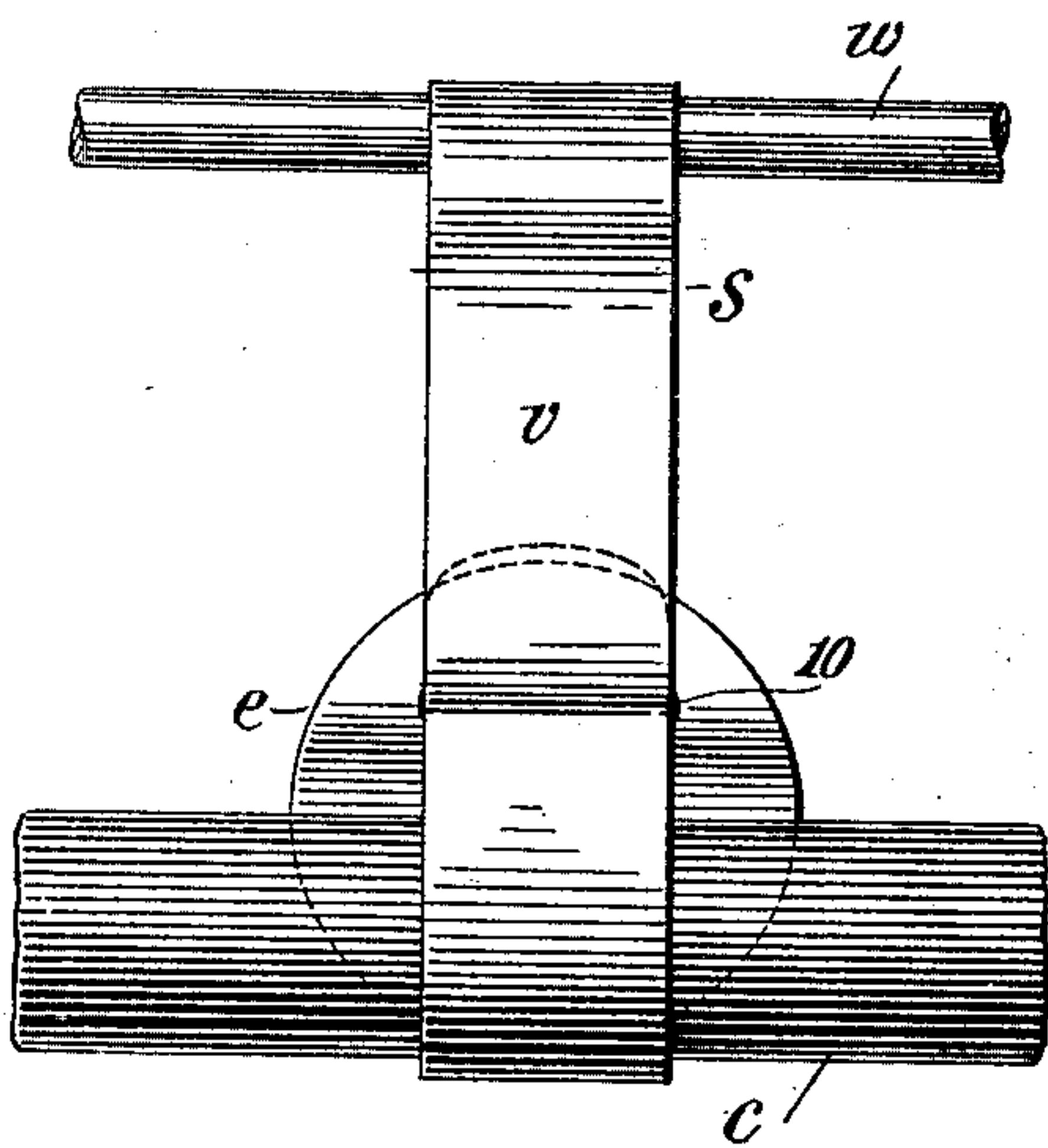


Fig. 5.

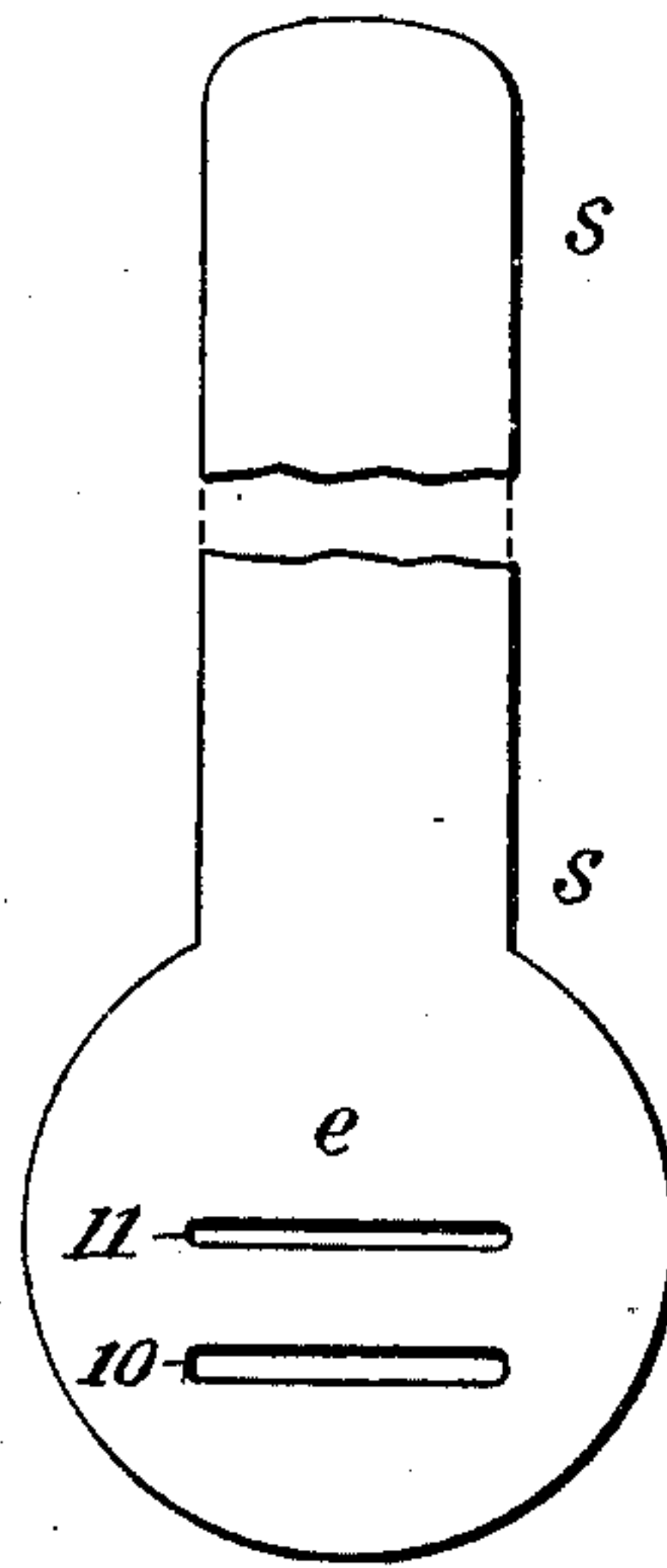
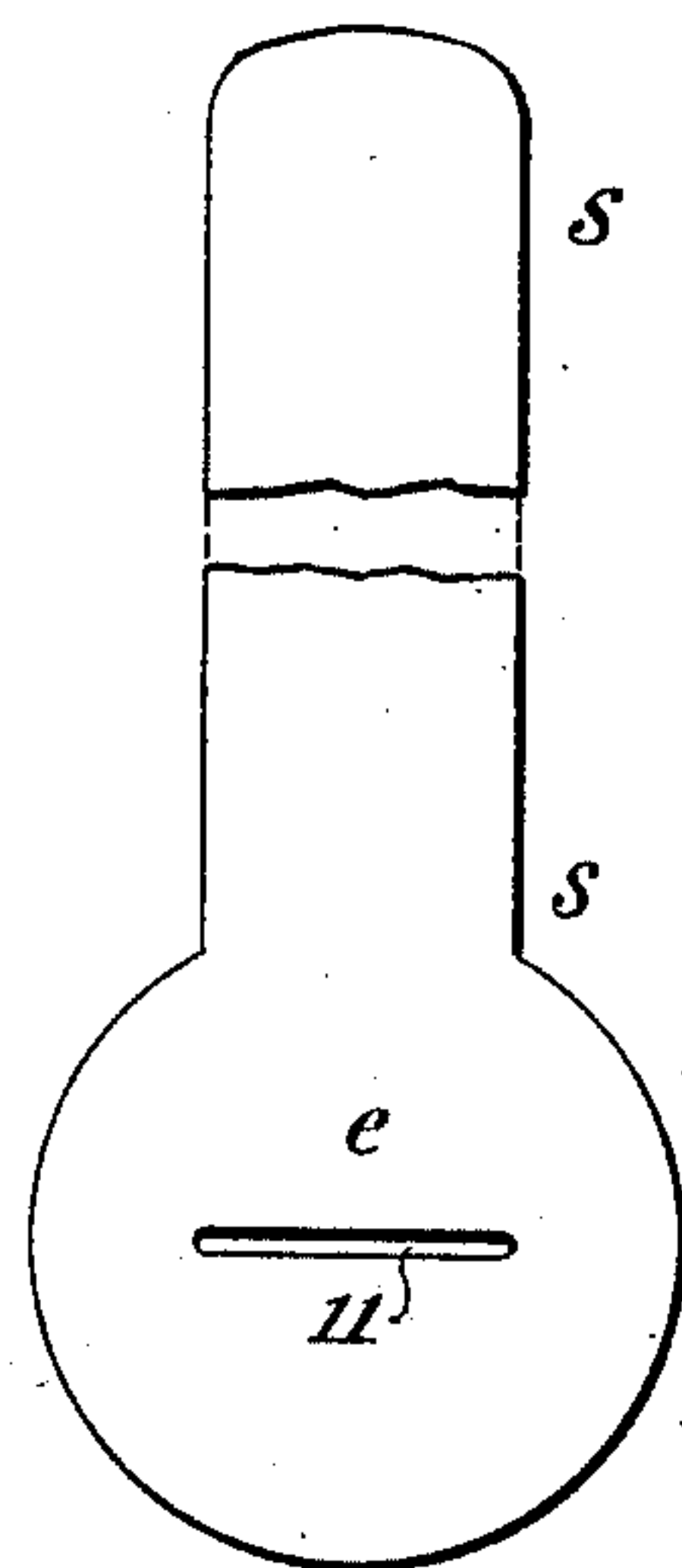


Fig. 6.



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# UNITED STATES PATENT OFFICE.

HERSCHEL P. COPELAND, OF JERSEY CITY, NEW JERSEY.

## CABLE-SUPPORTING CLIP.

SPECIFICATION forming part of Letters Patent No. 674,999, dated May 28, 1901.

Application filed March 26, 1901. Serial No 52,912. (No model.)

*To all whom it may concern:*

Be it known that I, HERSCHEL P. COPELAND, a citizen of the United States, residing in Jersey City, Hudson county, New Jersey, have made certain new and useful Improvements in Cable-Supporting Clips, of which the following is a specification.

My invention consists in providing a clip formed from a strap, preferably of inoxidizable metal, out of which two loops are formed by locking the ends of the strap, so as to encircle the suspending-wire by one loop and the cable to be supported by the other loop.

The object of my invention is to avoid the use of rings, pins, or separate pieces and to provide a simple, cheap, and inoxidizable clip formed out of one integral piece.

The accompanying drawings illustrate my invention.

Figure 1 is a perspective view of the clip, the suspending-wire, and the suspended cable. Fig. 2 is a side elevation of the same. Fig. 3 is an elevation of the opposite side. Fig. 4 is a cross-section on the line A B, Fig. 2. Fig. 5 is a view of the strap from which the clip is formed, and Fig. 6 is a modification.

I provide a strap *s*, preferably like that shown in Fig. 5, having an enlargement at one end, like *e*. There are slits 10 and 11 of sufficient size to permit the passage of the strap therethrough. In the drawings, *w* is a suspending-wire of great tensile strength. *c* is a cable composed of a series of insulated wires with a suitable covering or sheathing. The clips are arranged at intervals, connecting the wire *w* and cable *c*. Each clip is formed by passing the strap around the cable through the slit 11, again around the cable and through the slit 10, thence upward, as at *t*, around the wire *w*, thence downward, as at *v*, the free end being passed upward through the slit 10—that is, in the opposite direction—and turned to occupy a position between the surface of the enlargement *e* and the portion *t* of the strap, which with the section of the strap *v* constitutes a loop encircling the wire *w*. I may either loop and fold the sheet-zinc straps into the form of the clip shown in Fig. 1 at the factory and thread them on the cable and wire *w* when suspending the cable or I may form the strap into the two loops con-

stituting the clip when placing the cable in position to unite the two parts *w* and *c*. I prefer to employ for the strap sheet-zinc about fifteen one-thousandths of an inch thick.

My clip being of one inoxidizable metal local galvanic action between the elemental parts of the clip is avoided. By stamping the clip complete in the form of a blank I secure simplicity, cheapness, and lightness.

In Fig. 6 I have shown substantially the same clip with but one slit, like 11. This form may be employed when preferred, and when employed the free end of strap *s* is passed around the cable, then through the slit 11, then upward, as at *t*, around *w*, downward, as at *v*, and through the slit 11 in the opposite direction, the end being turned and held locked, as first described.

What I claim, and desire to secure by Letters Patent, is—

1. A strap or band doubled upon itself to form loops at opposite extremities to encircle a supporting-wire and a supported cable, respectively, said loops being formed by passing one end of said band through the opposite end thereof.

2. A strap or band composed of a single integral piece of metal doubled upon itself forming loops at opposite extremities to encircle a supporting-wire and a supported cable, respectively, said strap being provided with means for passing one end thereof through the other end to form said loops.

3. A strap or band of sheet metal doubled upon itself to form loops at opposite extremities to encircle a supporting-wire and a supported conductor, respectively, said loops being formed by passing one end of said band through a slit at or near one end of the strap.

4. A strap of sheet-zinc doubled upon itself to form loops at opposite extremities to encircle a supporting-wire and a cable respectively, said loops being formed by passing one end of said band through a slit or opening at or near one end of the strap.

HERSCHEL P. COPELAND.

Witnesses:

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