

No. 631,970.

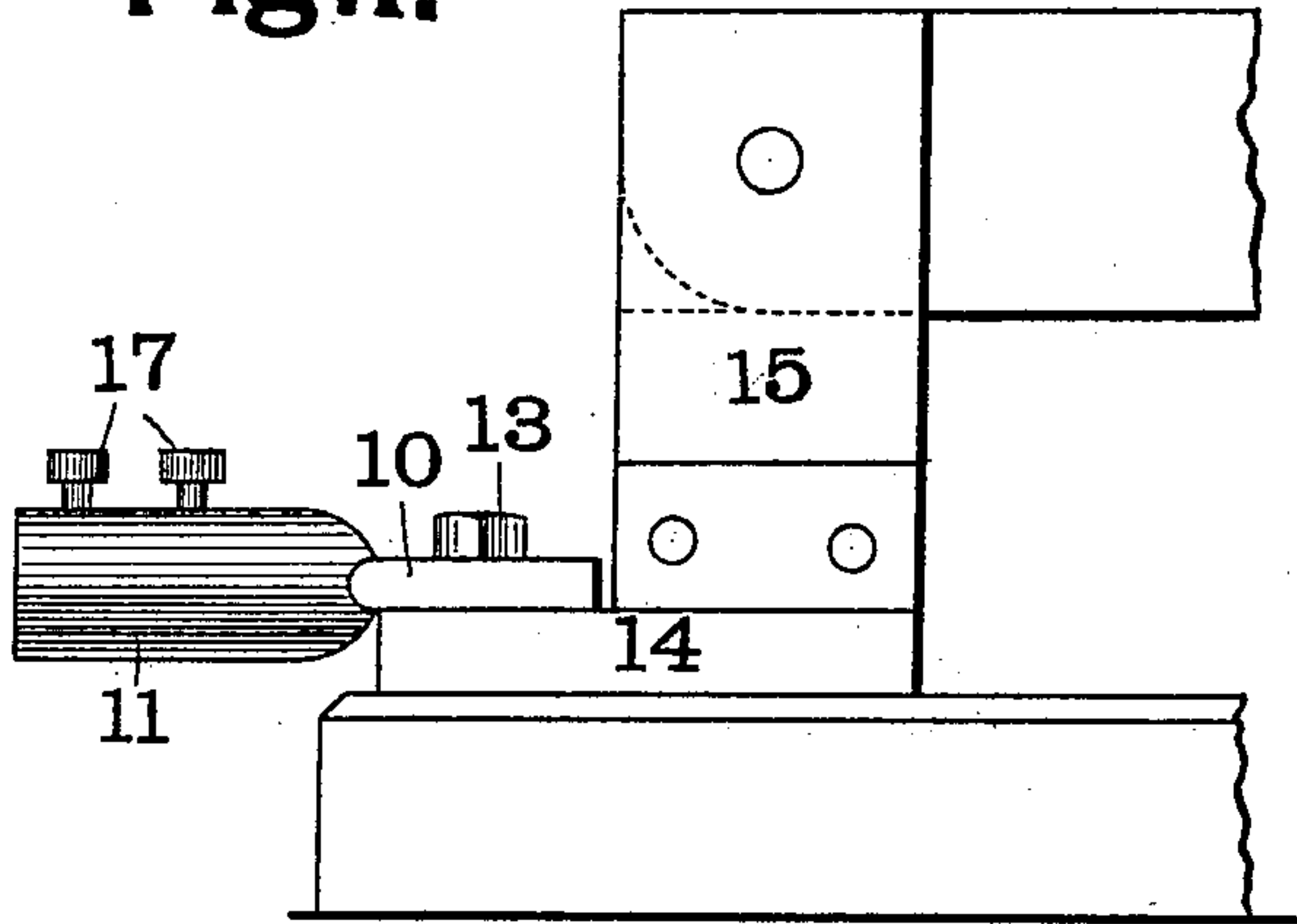
Patented Aug. 29, 1899.

**F. SCHWEDTMANN.**  
**ELECTRIC TERMINAL.**

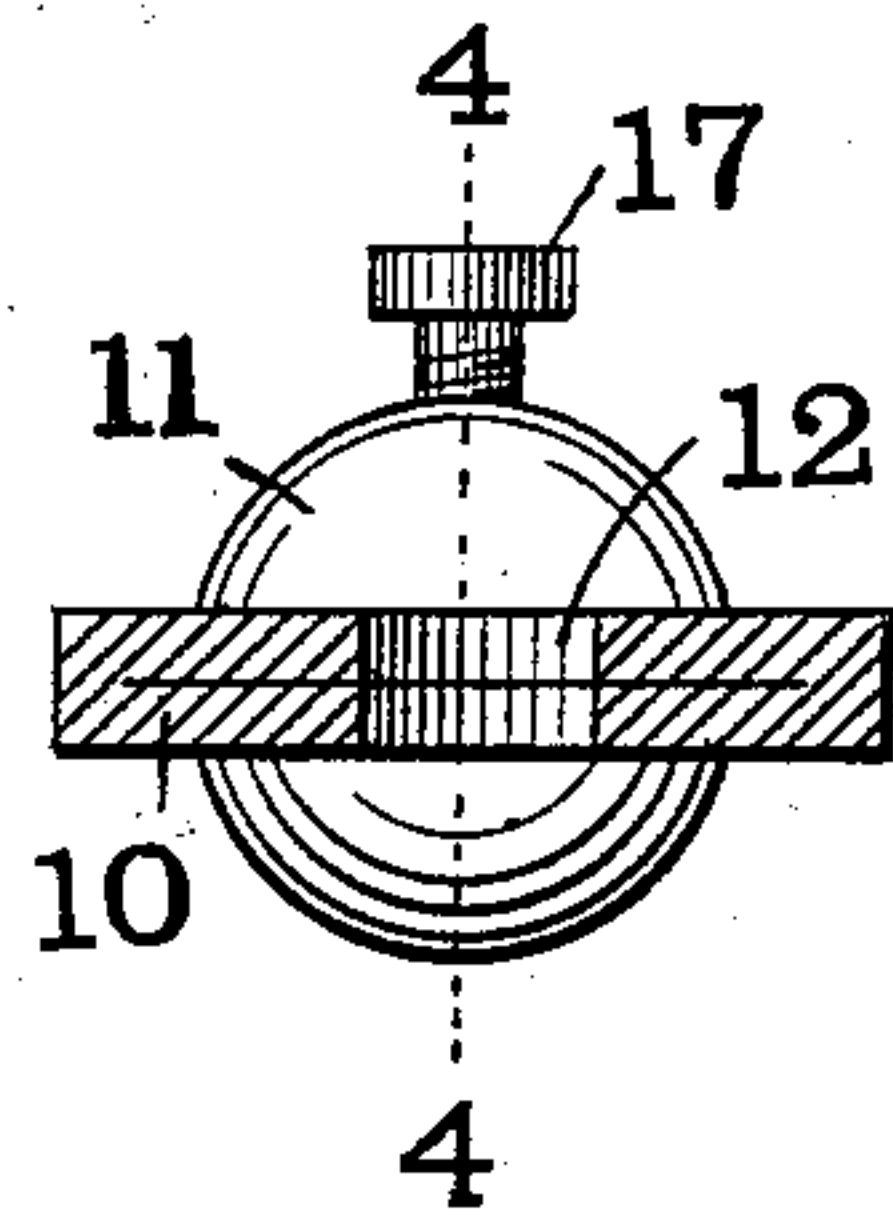
(Application filed Feb. 27, 1899.)

(No Model.)

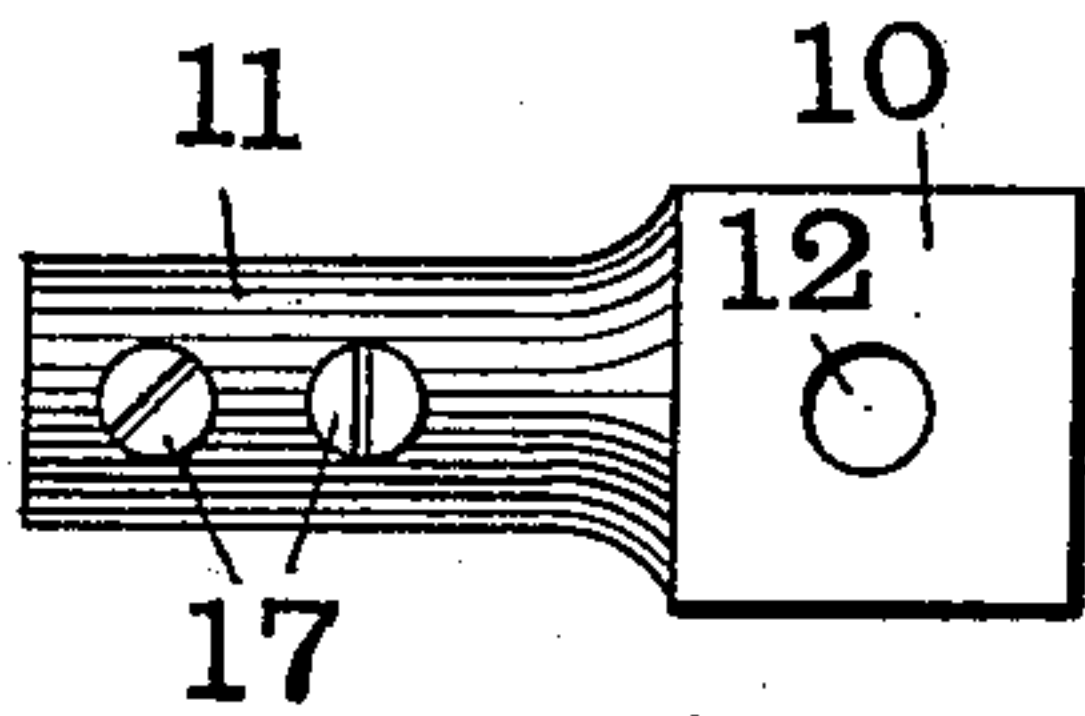
**Fig.1.**



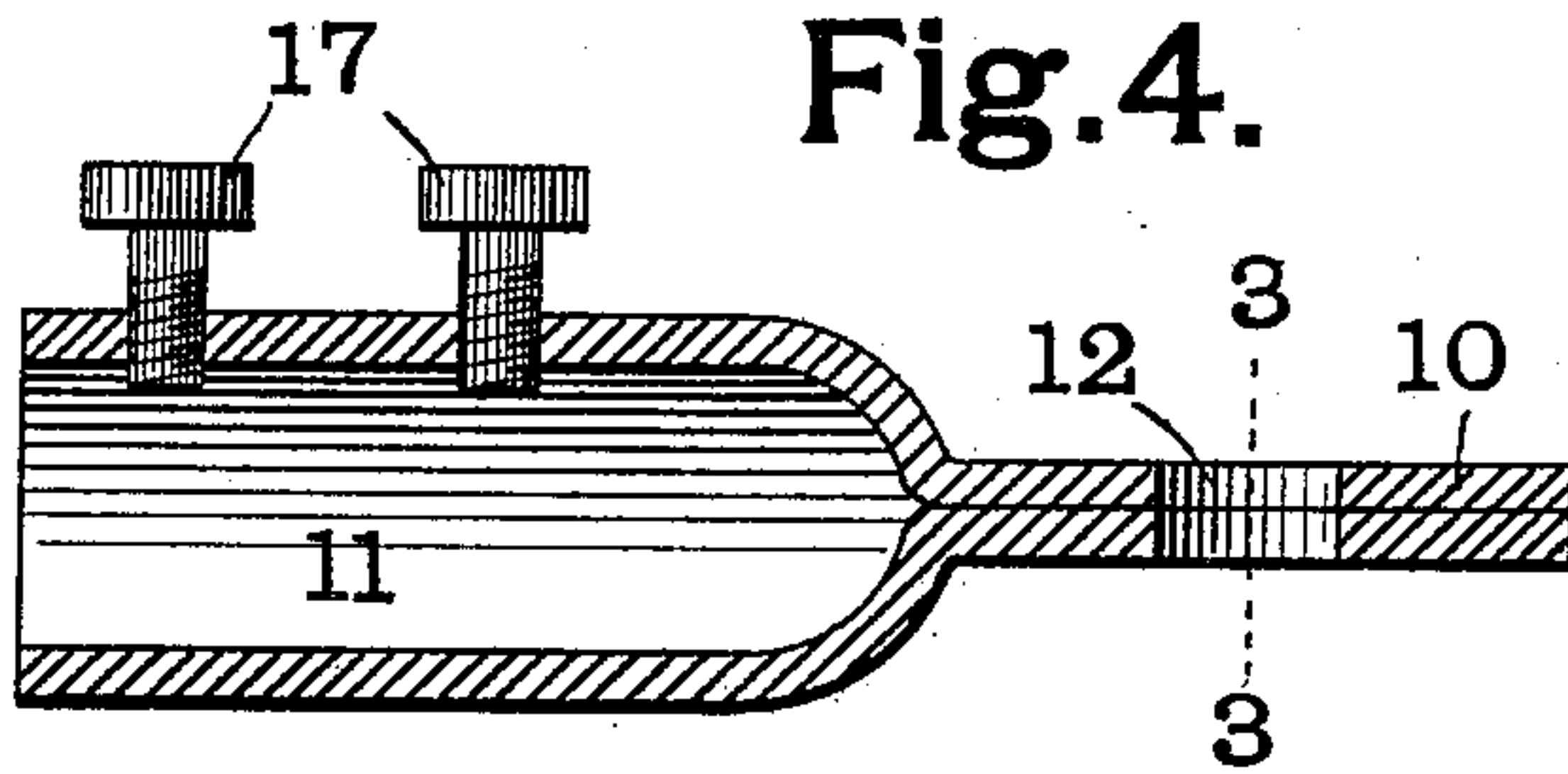
**Fig.3.**



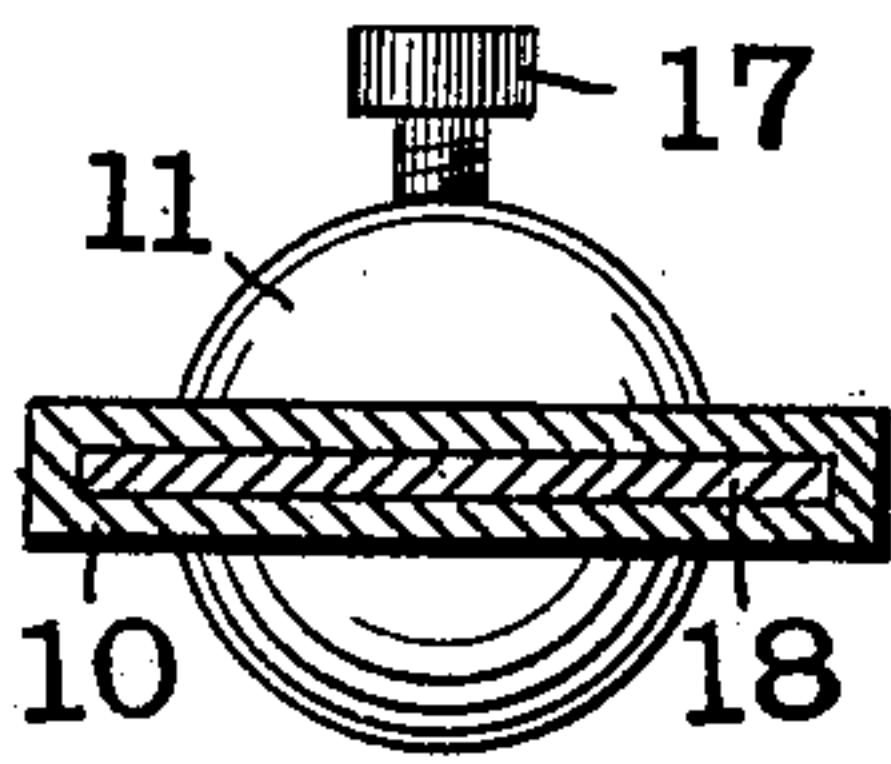
**Fig.2.**



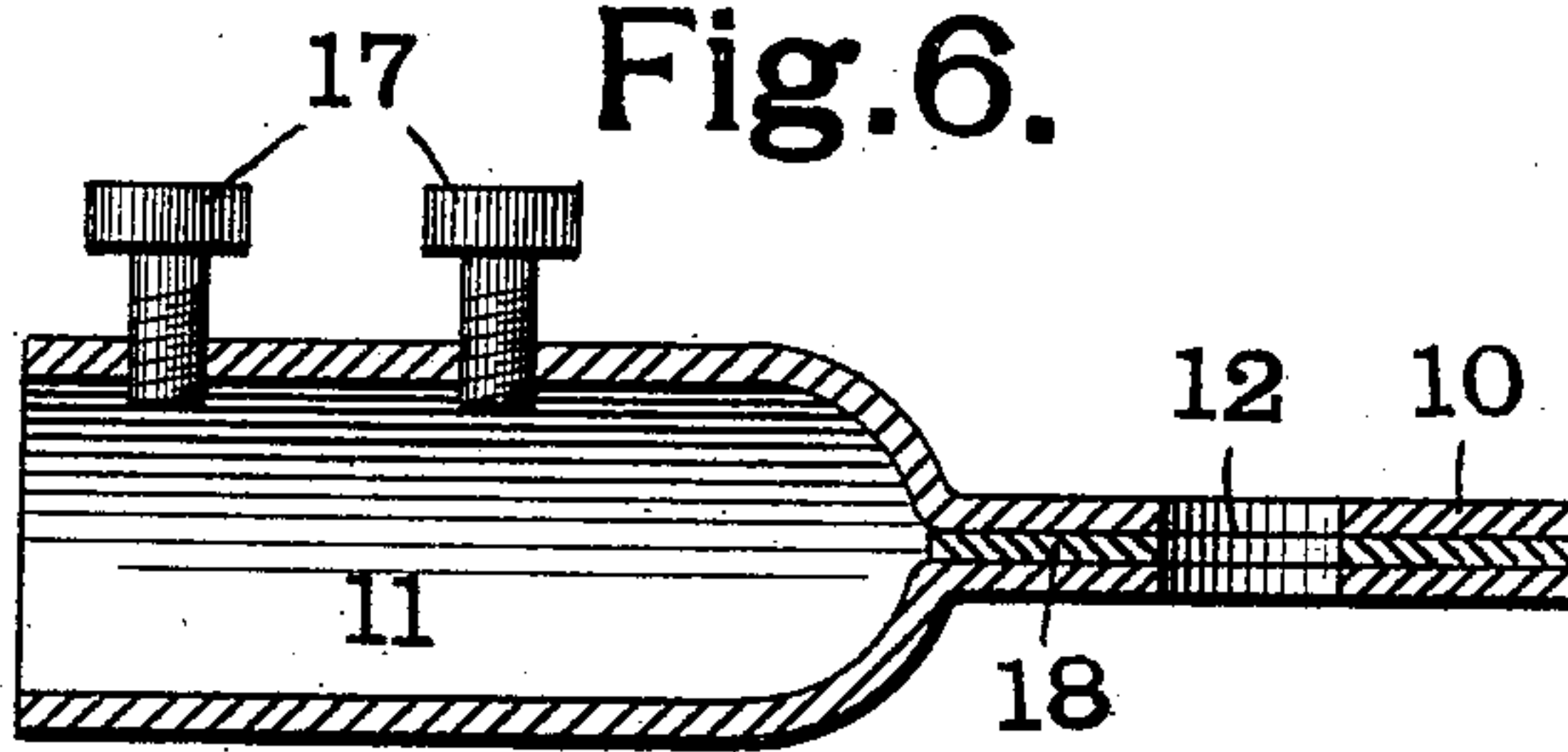
**Fig.4.**



**Fig.5.**



**Fig.6.**



Witnesses

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# UNITED STATES PATENT OFFICE.

FERDINAND SCHWEDTMANN, OF ST. LOUIS, MISSOURI.

## ELECTRIC TERMINAL.

SPECIFICATION forming part of Letters Patent No. 631,970, dated August 29, 1899.

Application filed February 27, 1899. Serial No. 706,991. (No model.)

*To all whom it may concern:*

Be it known that I, FERDINAND SCHWEDTMANN, a citizen of the United States of America, residing at St. Louis, in the State of Missouri, have invented a certain new and useful Electric Terminal, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

One object of my invention is to construct a line-wire terminal which will have as great carrying capacity as possible for the amount of metal contained.

Another object of my invention is to dispense with machine work on the terminal, and thus reduce the cost of manufacture.

My invention consists in the novel features described in the following specification and pointed out in the claims affixed hereto.

In the accompanying drawings, which illustrate a line-wire terminal made in accordance with my invention, Figure 1 is a side elevation, on a reduced scale, of one of my terminals and a portion of an electric switch to which the same is attached. Fig. 2 is a top plan view, also on a reduced scale. Fig. 3 is a section on the line 3 3 of Fig. 4. Fig. 4 is a section on the line 4 4 of Fig. 3; and Figs. 5 and 6 are views similar to Figs. 3 and 4, respectively, but showing a slight modification.

Like marks of reference refer to similar parts in the several views of the drawings.

In making the terminal I first cut off a suitable length of drawn-copper tubing. One end of this piece of tubing I flatten between suitable dies to form a portion 10, the remaining portion 11 of the tube being left cylindrical in form. In the portion 10 I form an opening 12. By means of a bolt 13, passing through the opening 12, the terminal may be secured to any desired object, such as the base 14 of the pivot-post 15 of an electric switch, as shown in Fig. 1. In the cylindrical portion 11 I form one or more threaded openings, in which are screws 17 for securing the line-wire in said part 11.

While the part 10 will always have substan-

tially the same amount of metal in cross-section as the part 11, and hence will carry as much current, in some cases it is necessary to make this part so thin, in order to give sufficient contact-surface, that it is liable to become bent. In such cases I insert between the two sides of the part 10 a strengthening-strip 18, as shown in Figs. 5 and 6. While for the reason above explained it is not essential that this strip 18 should be of good conducting material, I much prefer to make it of drawn copper, so as to have the entire terminal of good conducting material.

It will be seen that my terminal has as great a carrying capacity as possible for the amount of metal used and that it requires no machine work or other finishing and yet presents a neat appearance.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A binding-post or terminal for electric line-wires formed from drawn-metal tubing, having a portion thereof flattened to adapt it for contact with an electrical instrument, and a portion thereof cylindrical to receive the line-wire.

2. A binding-post or terminal for electric line-wires formed from drawn-metal tubing, having a portion thereof flattened, and a portion thereof cylindrical, means for securing said flattened portion to an electrical instrument, and means for securing a line-wire in said cylindrical portion.

3. A binding-post or terminal for electric line-wires formed from drawn-metal tubing, having a portion thereof flattened to adapt it for contact with an electrical instrument, and a portion thereof cylindrical to receive the line-wire, and a strengthening-strip interposed between the sides of said flattened portion.

In testimony whereof I have hereunto set my hand and affixed my seal in the presence of the two subscribing witnesses.

FERD. SCHWEDTMANN. [L. S.]

Witnesses:

W. A. ALEXANDER,  
DAVID STANNARD.