

(No Model.)

C. F. SPLITDORF.  
INSULATED WIRE.

No. 437,632.

Patented Sept. 30, 1890.

Fig. 1.

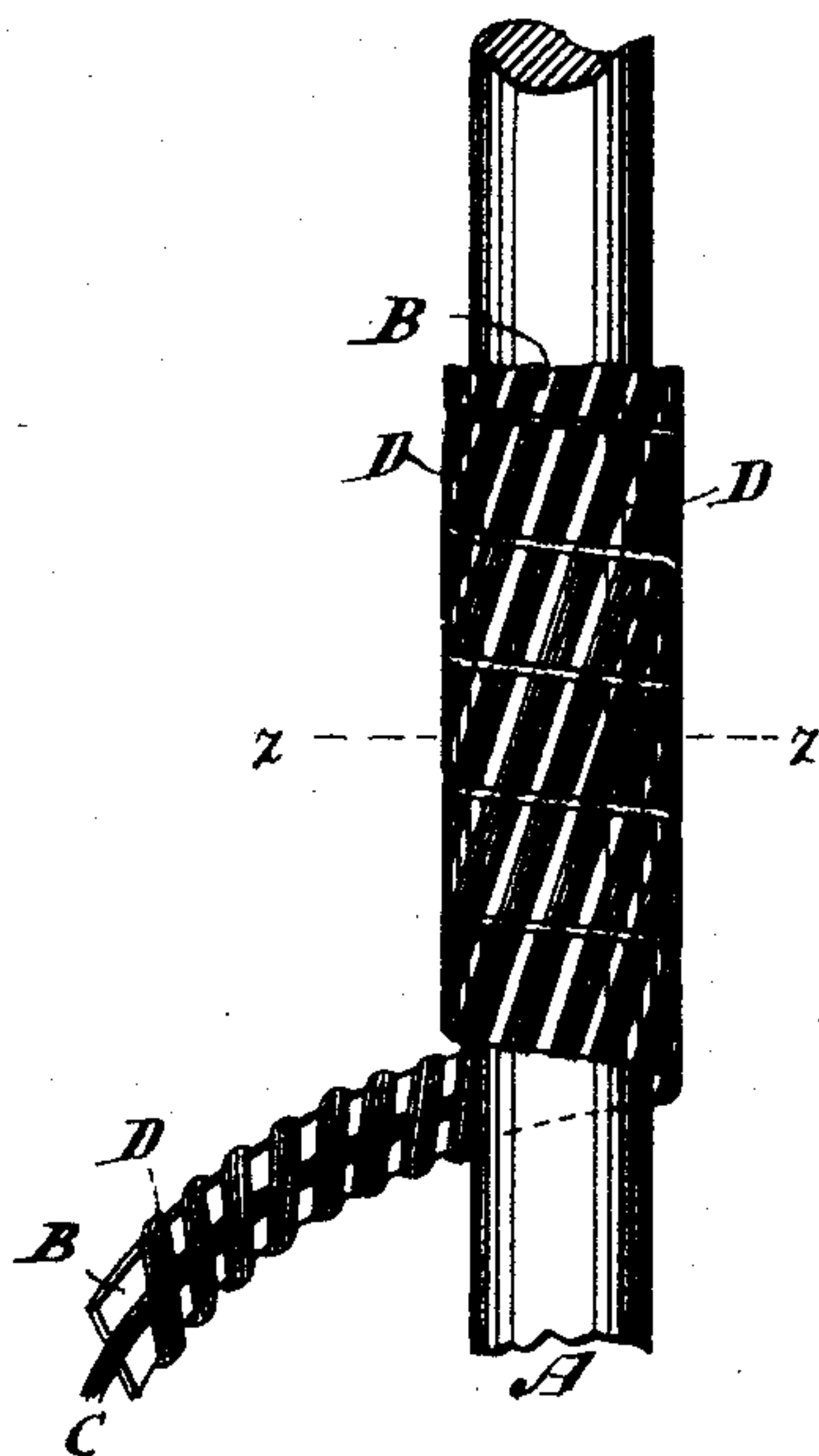


Fig. 5.

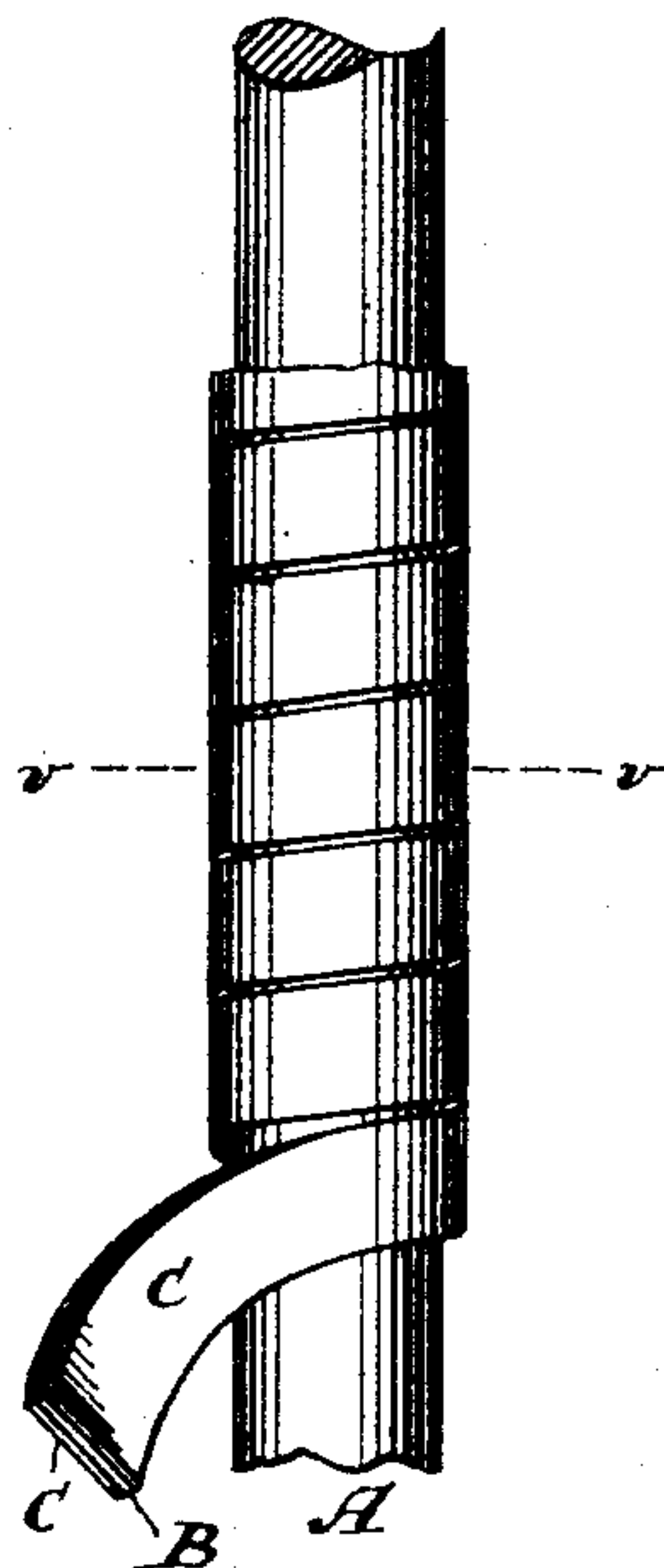


Fig. 2.

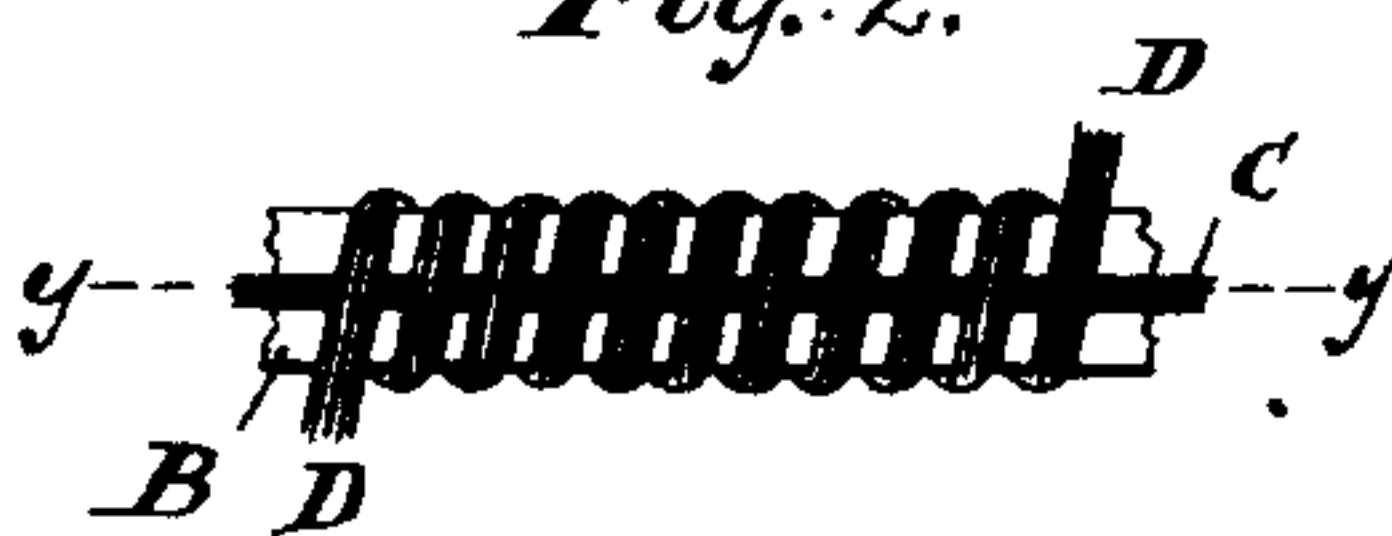


Fig. 6.

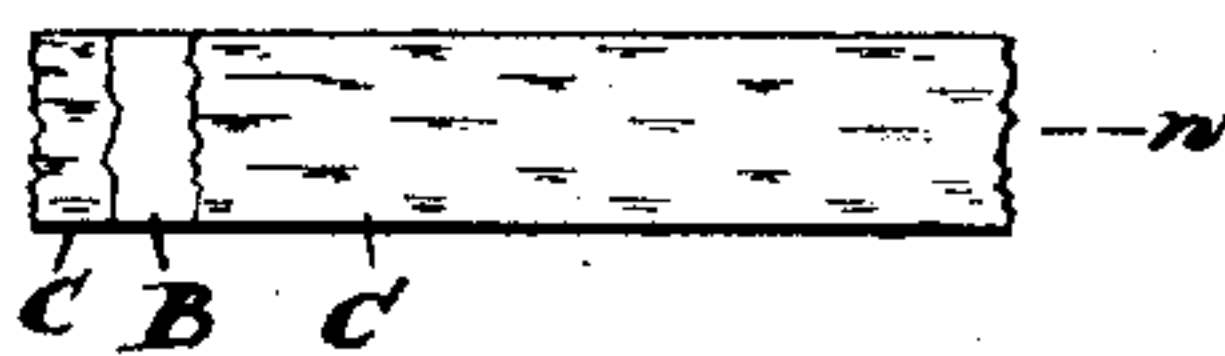


Fig. 3.

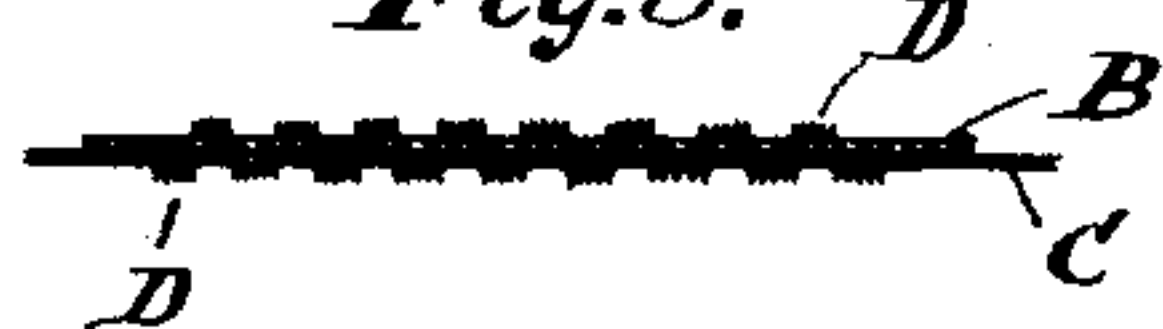


Fig. 7.



Fig. 4.

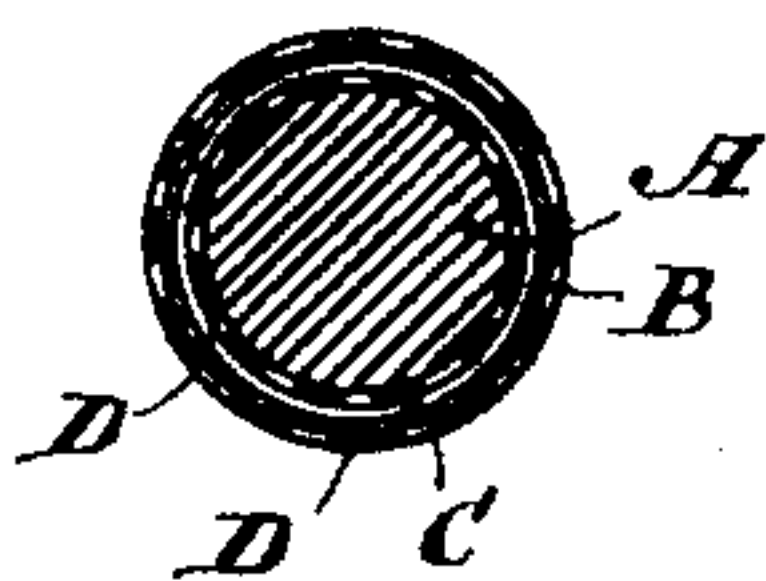
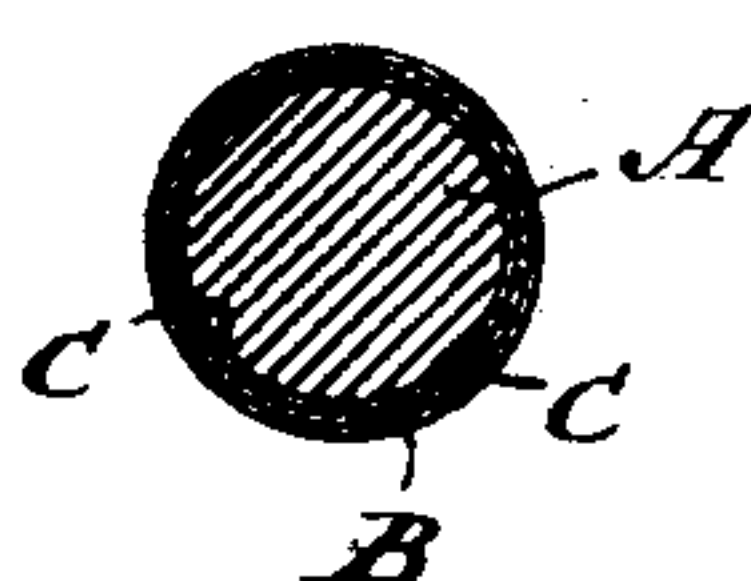


Fig. 8.



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# UNITED STATES PATENT OFFICE.

CHARLES F. SPLITDORF, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND  
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## INSULATED WIRE.

SPECIFICATION forming part of Letters Patent No. 437,632, dated September 30, 1890.

Application filed March 13, 1890. Serial No. 343,759. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES F. SPLITDORF, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Insulated Wires, of which the following is a specification.

This invention has for its object to provide a novel and efficient insulated wire or conductor for electrical purposes; and it consists of a wire or conductor covered with a flat mica strip, which is covered with a strengthening material on which is wound a protecting substance, such as silk, paper, cotton, or thread.

The invention also consists of a wire or conductor covered with flat strips of mica combined with a strengthening material and spirally wound on the wire.

The invention is illustrated by the accompanying drawings, in which—

Figure 1 is a plan view of a portion of a wire or conductor exhibiting my invention. Fig. 2 is a detail view of a mica strip wound with silk or other material. Fig. 3 is a sectional view taken on the line *yy*, Fig. 2. Fig. 4 is a sectional view taken on the line *zz*, Fig. 1. Fig. 5 is a plan view showing a modification of the strengthening substance for the spirally-wound mica strip. Fig. 6 is a detail view of a part of the compound insulating-strip shown in Fig. 5. Fig. 7 is a sectional view taken on the line *ww*, Fig. 6. Fig. 8 is a sectional view taken on the line *vv*, Fig. 5.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, wherein—

The letter A indicates the wire or conductor, and B the flat mica strip, which in Figs. 1, 2, 3, and 4 is provided with a strengthening material C, composed of a strip of paper or cotton secured in place by winding upon the mica strip a protecting substance composed of silk, paper, cotton, or thread D, thus preventing flaking or injury of the mica and thoroughly insulating the wire or conductor when the mica strip, protected and strengthened as described, is spirally wound on or otherwise applied to the wire as indicated in Fig. 1.

In Figs. 5, 6, 7, and 8 the strengthening material C is in the form of strips, between which the flat mica strip is placed, the compound insulating-strip so formed being spirally wound on the wire or conductor.

Having thus described my invention, what I claim is—

1. A wire or conductor for electrical and other purposes covered with a flat strip of mica, provided with protecting material and wound with such substance as silk, paper, cotton, or thread, substantially as described.

2. A wire or conductor for electrical and other purposes covered with mica, said mica being formed into flat strips combined with a strengthening material and wound spirally on the wire, substantially as described.

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

CHARLES F. SPLITDORF.

Witnesses:

WM. C. HAUFF,  
E. F. KASTENHUBER.