

W. R. PATTERSON.
LOCKING DEVICE FOR CABLE SPLICES.

No. 382,726.

Patented May 15, 1888.

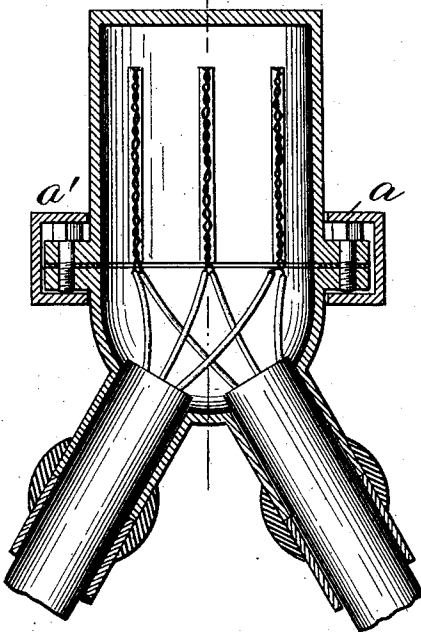


Fig. 2.

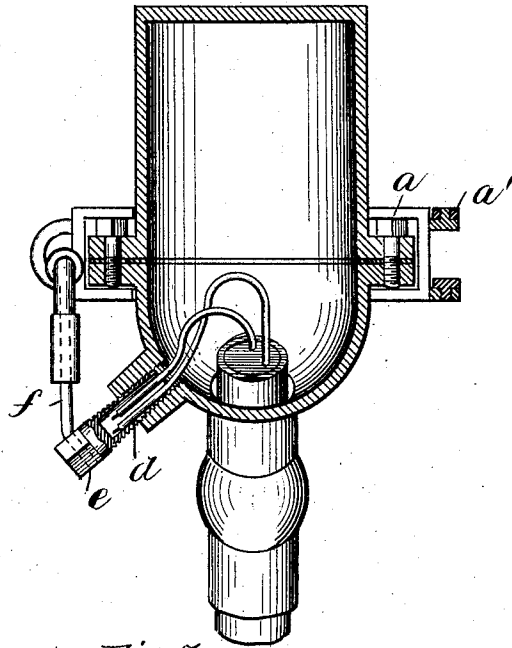


Fig. 3.

Fig. 1.

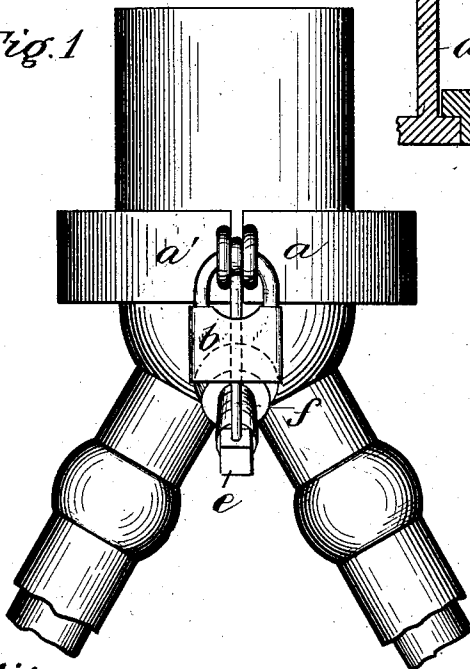
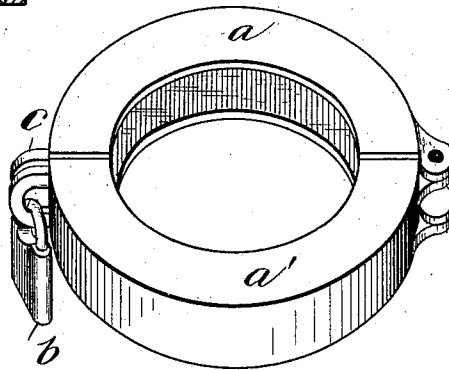


Fig. 5.

Fig. 4.



Witnesses.
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Inventor.
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By George P. Barton,
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(No Model.)

2 Sheets—Sheet 2.

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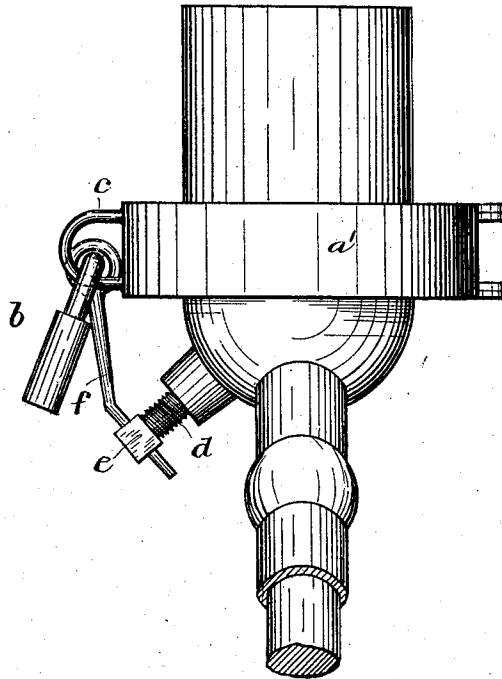


Fig. 6

Witnesses:

Chas. C. Hawley.

Chas. C. Woodworth.

Inventor:

William R. Patterson.

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UNITED STATES PATENT OFFICE.

WILLIAM R. PATTERSON, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE
WESTERN ELECTRIC COMPANY, OF SAME PLACE.

LOCKING DEVICE FOR CABLE-SPLICES.

SPECIFICATION forming part of Letters Patent No. 382,726, dated May 15, 1888.

Application filed March 21, 1887. Serial No. 231,641. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. PATTERSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Locking Devices for Cable-Splices, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to the splices of telegraph-cables, which are usually made at the man-holes and so arranged that tests may be made from time to time, as required. As to the state of the art, reference is made to my Patents No. 277,335, of May 8, 1883, and No. 330,049, of November 10, 1885.

The object of my invention is to make such splices more accessible for testing and at the same time more securely protected from meddling or malicious mischief-makers.

My invention consists in a locking device, which encircles the joint of the cap and a pin connected therewith to hold the screw-plug, which closes the opening to the test-wires in place.

My invention will be readily understood by reference to the accompanying drawings, in which—

Figure 1 is a front elevation of a Y-splice provided with my locking device. Figs. 2 and 3 are vertical longitudinal and transverse sectional views, respectively, thereof. Fig. 4 is a perspective view of the annular locking device. Fig. 5 is a detailed sectional view of the hinges thereof. Fig. 6 is a detailed view showing the position of locking-pin and padlock.

Like parts are indicated by similar letters of reference in the different figures.

It will be seen that the annular ring is made up of two symmetrical parts, *a* and *a'*. The hinges, as shown in Fig. 5, are cast integral with the half-rings *a* and *a'*, and when the ring is secured by the padlock *b* about flanges *c* of the joint between the cap and the Y-piece cannot be removed, there being no loose pin in the hinge. On taking off the padlock and throwing back the pieces *a a'* the screws

which hold the flanges together are made readily accessible and may be taken out so that the cap may be removed.

As shown more clearly in Figs 1 and 3, I have provided special test-wires, which are readily accessible. These test-wires may be of different lengths and placed in the cable, as described in my Patent No. 293,775, of February 19, 1884. At the splice joints or terminals, however, I provide a special chamber or pocket, into which I lead the ends of the test-wires, so that they may be reached without disturbing the conductors of the cable. As shown in Fig. 3, two test-wires, *d*, are shown with their ends resting in the hollow end of the plug *e*, plug *e* being screwed into a nipple provided in the Y or T piece, as the case may be. Thus the test-wires are readily accessible without disturbing in any manner the conductors of the cable.

By means of the pin *f*, inserted in a hole in the plug and connected to the padlock, the plug is locked, as shown.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the ring formed of two symmetrical pieces hinged together, of the flanges at the joint of a cable-splice clasped thereby, and a padlock for holding the ring in place, as described.

2. The combination, with the ring formed of two symmetrical pieces hinged together, the hinges being integral with the said pieces, of the flanges at the joint of a cable-splice clasped thereby, and a padlock for holding the ring in place, as described.

3. The combination, with the Y-splice of the pipe of a telegraph-cable provided with a separate chamber or recess for receiving the test-wires, of said test-wires, a locking device, and a plug secured by said locking device, whereby the test-wires are made accessible, as described.

In witness whereof, I hereunto subscribe my name this 16th day of February, A. D. 1887.

WILLIAM R. PATTERSON.

Witnesses:

WM. M. GILLER,
GEORGE P. BARTON.