

(No Model.)

A. GARTNER.
FUSE CONNECTOR.

No. 546,957.

Patented Sept. 24, 1895.

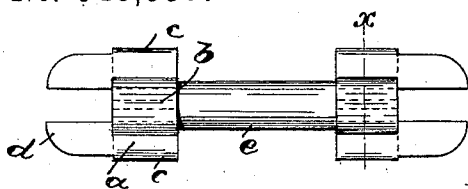


Fig. 1.

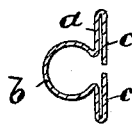


Fig. 1a.

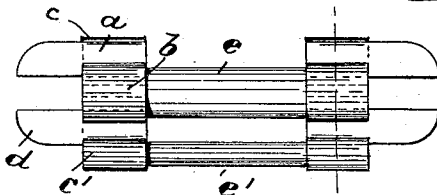


Fig. 2.

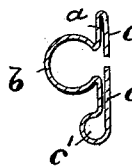


Fig. 2a.

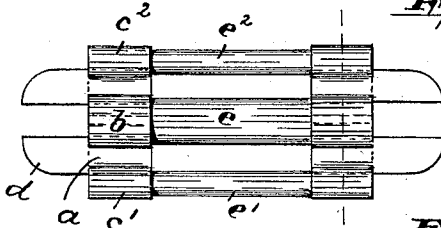


Fig. 3.

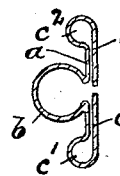


Fig. 3a.

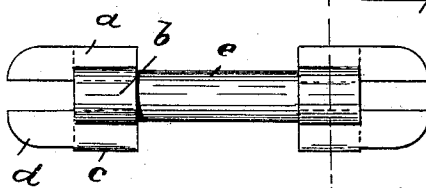


Fig. 4.

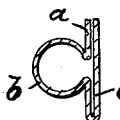


Fig. 4a.

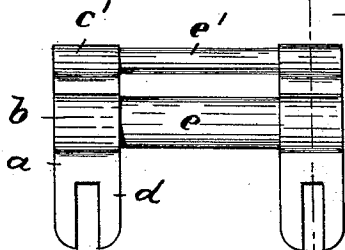


Fig. 5.

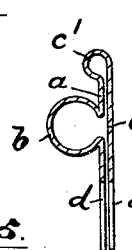


Fig. 5a.

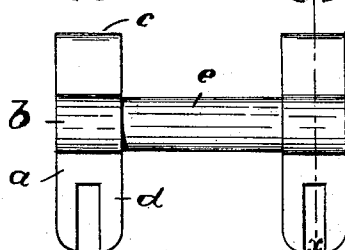


Fig. 6.

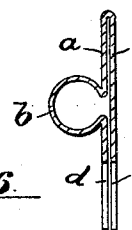


Fig. 6a.

WITNESSES:

Romolo Bottelli
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INVENTOR:

Alfred Gartner

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UNITED STATES PATENT OFFICE.

ALFRED GARTNER, OF NEWARK, NEW JERSEY, ASSIGNOR TO CHARLES H. MCINTIRE, OF SAME PLACE.

FUSE-CONNECTOR.

SPECIFICATION forming part of Letters Patent No. 546,957, dated September 24, 1895.

Application filed July 25, 1895. Serial No. 557,115. (No model.)

To all whom it may concern:

Be it known that I, ALFRED GARTNER, a citizen of the United States, residing in Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Terminals or Fuse-Connectors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my present invention is to provide terminals for fuse connections of simple, strong, and durable construction, reliable in operation, not liable to get out of order, and easily manufactured and handled.

The invention consists in the improved terminal, its auxiliary fuse-clamping loops, and in the combination and arrangement of the various parts thereof, substantially as will be hereinafter more fully described, and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several views, Figures 1 to 6, inclusive, illustrate in plan view fuses provided with my improved terminals, various forms of the latter being shown; and Figs. 1^a to 6^a, inclusive, represent sectional views on the line *xx* of their respective figures, the fuses not being shown.

In said drawings, *a* represents a plate having a central raised portion *b* forming a spring-loop for the reception of the fuse *e*.

Integral with said plate are the projecting fingers *d*, forming a slot through which a screw is adapted to pass, and by means of which the terminals are secured to the fuse-block in the same manner as in ordinary terminal connections, (the fuse-block and screws not being shown in the drawings.)

On one or both sides of the plate *a* and integral therewith is arranged a plate *c*, bent parallel to and under the side sections of said

plate *a*, and extending, as in Figs. 1 to 3, inclusive, to about the center line of the spring-loop *b*.

In Fig. 4 the plate *c* is arranged only on one side of plate *a* and extends to about the other side of the latter, as clearly shown.

In Figs. 5 and 6 the spring-loop *b* is arranged as traversing the plate *a*, and the plate *c* provided with fingers *d* and extending under the said plate *a* and its fingers *d*, respectively. As can be seen from the various figures of the drawings, the said projecting plates *c* are either bent short, as in Figs. 1, 4, and 6, or they are bent to form an auxiliary spring-loop *c'* (or *c'* and *c''*) for the reception of an auxiliary fuse *e'*, (or *e'* and *e''*), as in Figs. 2, 3, and 5.

By the arrangement of the plates *c* (lapped under the plates *a*) additional surface or metal is given to the terminals, and thus their resistance is reduced to a minimum.

As there is a certain amount of spring in the loop *b* on account of its being struck from the plate *a*, fuses slightly varying in diameter can easily be inserted in said loop, and yet will have a perfect contact with the terminal. The same refers to the spring-loops *c'* and *c''*, which have the additional advantage that auxiliary fuses can be inserted in said loops, and thus the same-sized terminal may be used for heavier currents without the necessity of increasing the diameter of the central fuse *e*.

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

1. A terminal consisting of a plate provided with a central raised portion forming a spring loop, said loop projecting from one side of said plate and perpendicular thereto, and of an extension integral with and lapped under said plate, substantially as and for the purposes described.

2. A terminal consisting of a plate provided with projecting fingers forming a slot, a spring loop centrally arranged on and by said plate and projecting perpendicular from one

side thereof, and of an extension projecting from and lapped under said plate, substantially as and for the purposes described.

3. A terminal consisting of a plate provided
5 with a central raised portion forming a spring loop, and of an extension on each side and lapped under said plate, each of said extensions forming an auxiliary spring loop, substantially as and for the purposes described.
- 10 4. A terminal consisting of a plate provided with projecting fingers, a spring loop centrally arranged on and formed by said plate, and of an extension on each side and lapped under said plate, each of said extensions forming an auxiliary spring loop, substantially as
15 and for the purposes described.
5. A terminal consisting of a plate provided with a central raised portion forming a spring loop and of a series of auxiliary spring loops

parallel with said centrally arranged spring 20 loop and formed integral with said plate, substantially as and for the purposes described.

6. A terminal consisting of a plate provided with projecting fingers forming a slot, a spring 25 loop centrally arranged on and formed by said plate, and of a series of auxiliary spring loops parallel with said central loop and formed integral with said plate, substantially as and for the purposes described. 30

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of July, 1895.

ALFRED GARTNER.

Witnesses:

WM. D. BELL,
DUNCAN M. ROBERTSON.