

(No Model.)

A. GARTNER.
WIRE CONNECTOR.

No. 561,388.

Patented June 2, 1896.

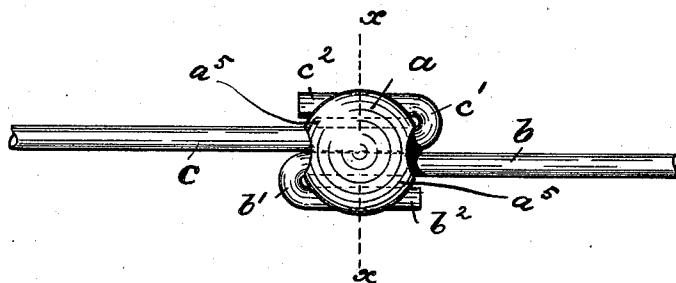


Fig. 1.

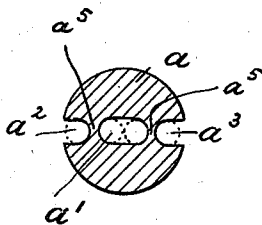


Fig. 2.

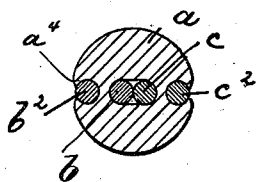


Fig. 3.

WITNESSES:

Felicie Gartner
Herman M. Robertson.

INVENTOR:

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BY *Gartner & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

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

WIRE-CONNECTOR.

SPECIFICATION forming part of Letters Patent No. 561,388, dated June 2, 1896.

Application filed April 17, 1896. Serial No. 587,910. (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 Wire-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 a connector for telegraph, telephone, and other wires, simple, strong, and durable in construction, and easily and quickly handled and operated.

The invention consists in the improved wire-connector, and in the combination and arrangements 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, Figure 1 is a front elevation of my improved wire-connector; and Figs. 2 and 3, sectional views on the line *xx* of Fig. 1, illustrating the connector without and with the inserted wires, respectively.

In said drawings, *a* represents a metallic block, preferably ball-shaped, and provided with a central oval hole or opening *a'* and with side openings or grooves *a²* *a³*, which latter are substantially parallel to the said central hole. The longer diameter of the hole *a'* is approximately equal to the combined diameters of the wires *b* *c* to be jointed, while its shorter diameter is approximately equal to the diameter of a single wire.

The dimensions of the openings or grooves *a²* *a³* correspond with the dimension of the wires.

In practice the wires to be jointed are inserted from opposite directions into the central opening *a'*, and are then bent, as at *b'*, (*c'*) until their respective ends *b²* (*c²*) rest within the side grooves *a²* and *a³*, when the corners or edges *a⁴* of the said grooves are pressed down upon the said ends *b²*, (*c²*) as clearly

shown in Fig. 3 of the drawings. The bent portions *b'* and *c'* bear against the solid metal or walls *a⁵*, formed by the central opening and the side grooves, and the withdrawal of the wires *b* and *c* is thus prevented.

The connector hereinbefore described is of simple and cheap construction, and furnishes an ample metallic contact between it and the wires to be jointed, and as it does not require any twisting, as in the usual wire joint, it saves time and labor.

I do not intend to limit myself to the precise construction shown and described, as various alterations can be made without changing the scope of my invention; but

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

1. A wire-connector, consisting of a metallic block provided with a central opening or hole and with two oppositely-arranged openings or grooves, said central opening and said side openings adapted to receive the wires to be jointed and their bent-over portions respectively, substantially as described.

2. A wire-connector, consisting of a metallic block provided with a central opening or hole having its longer internal diameter approximately equal to the combined diameters of the wires to be jointed, and also provided with two oppositely-arranged openings or grooves, each corresponding in diameter to the diameter of a single wire, said central opening and side grooves being adapted to receive the wires and their bent-over portions respectively, substantially as described.

3. A wire-connector, consisting of a metallic block provided with a central opening or hole and with two oppositely-arranged openings or grooves, said central opening and said side grooves adapted to receive the wires to be jointed and their bent-over portions respectively, the edges of the side grooves to be pressed down upon the said bent-over portions, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of April, 1896.

ALFRED GARTNER.

Witnesses:

FELICIE GARTNER,
DUNCAN M. ROBERTSON.