

No. 835,158.

PATENTED NOV. 6, 1906.

G. L. HERZ.

TERMINAL TIP FOR ELECTRIC CONDUCTING WIRES.

APPLICATION FILED AUG. 15, 1904.

Fig. 1.

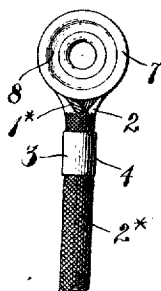


Fig. 2.

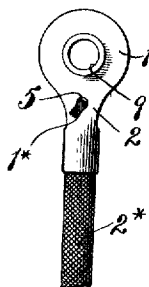


Fig. 3.

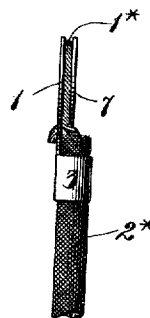


Fig. 4.

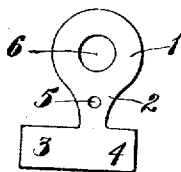


Fig. 5.



Fig. 6.



Fig. 7.

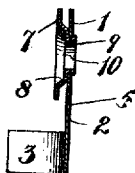
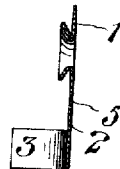


Fig. 8.



Witnesses:

F. S. Hackenberg.

Henry Thoms.

Inventor:

Gustave L. Herz
by attorneys
Brown & Brown

UNITED STATES PATENT OFFICE.

GUSTAVE L. HERZ, OF NEW YORK, N. Y.

TERMINAL TIP FOR ELECTRIC CONDUCTING-WIRES.

No. 835,158.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed August 15, 1904. Serial No. 220,769.

To all whom it may concern:

Be it known that I, GUSTAVE L. HERZ, a subject of the Emperor of Austria-Hungary, and a resident of the borough of Manhattan, in the city and State of New York, have invented a new and useful Improvement in Terminal Tips for Electric Conducting-Wires, of which the following is a specification.

The object of my invention is to provide a terminal tip for wires—such, for instance, as electric conducting-wires—which will be extremely strong and durable and which is particularly applicable for use in connection with the wiring of explosive-hydrocarbon engines where the terminal tips are subjected to great strain.

A further object is to provide a terminal tip of improved construction in which a spool is provided around which the bare wire may be wound, and a shank is provided with wings for clamping the insulated covering of the wire to the tip to prevent the stripping of the covering from the wire.

In the accompanying drawings, Figure 1 represents a portion of an electric conducting-wire and the terminal tip to which it is secured in top plan. Fig. 2 is a bottom plan view of the same. Fig. 3 is a side view. Fig. 4 is a plan view of the blank from which is formed one end of the spool, the shank, and the wings. Fig. 5 is a front view of the plate which forms the other end of the spool. Fig. 6 is a side view of the same. Fig. 7 is a longitudinal vertical section through the terminal tip, and Fig. 8 is a longitudinal vertical section through a modified form of terminal tip.

The electric conducting-wire herein represented is shown as composed of a core 1*, made up of a plurality of strands twisted together and an insulated covering 2* therefor.

The terminal tip comprises a spool around which the core 1* of the wire is wound, a shank projecting from one of the end plates of the spool, and wings extended laterally from the shank. In the present instance the back end plate 1 of the spool is provided with a shank 2, which shank has extended therefrom lateral wings 3 and 4. A hole 5 is formed in the shank 2. The end plate 1 is provided with a central hole 6 therethrough. The front end plate is denoted by 7, which end plate is provided with a countersunk portion 8 and a central flange 9, forming the wall of a central hole 10 therethrough. The

end plate 7 is secured to the end plate 1 by inserting the flange 9 through the hole 6 and then upsetting the flange against the back of the end plate 1. The countersunk portion of the end plate 7 serves to space the end plates of the spool a sufficient distance apart to permit the core 1* of the conducting-wire to be wound around the spool between the said end plates in the tapered groove formed thereby. This tapered groove serves to cause the end plates to snugly grip the wire. To permit this to be done, the insulated covering 2* is stripped away from the core 1* of the wire the required distance. The end of the core 1* is passed through the hole 5 in the shank 2 and bent into engagement with the back of the shank. The wings 3 and 4 are then wrapped around the insulated covering 2 of the wire for securing it to the shank and also to prevent the further stripping of the covering from the core. The hole through the spool permits the passage thereof of a binding-screw (not shown herein) for the purpose of securing the terminal tip to any required support.

In the form shown in Fig. 8 the front plate of the spool is formed by drawing the material of the back plate into the desired shape, thus obviating the necessity of riveting the front plate to the back plate, as in the other form shown.

What I claim as my invention is—

1. A sheet-metal terminal tip for wires comprising two end plates riveted together to form a spool around which the wire may be wound, and a shank formed integral with one of the end plates, to which the wire may be secured the said shank having a hole therein through which the end of the wire may be passed to more securely lock the wire in position.

2. A sheet-metal terminal tip for wires comprising two end plates riveted together to form a spool around which the wire may be wound, a shank formed integral with one of the end plates and wings projecting laterally from the shank arranged to be wrapped around the wire for securing it to the shank the said shank having a hole therein through which the end of the wire may be passed to more securely lock the wire in position.

3. A sheet-metal terminal tip for wires comprising a flat end plate, a dish-shaped end plate riveted thereto to form a spool around which the wire may be wound, and a

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shank formed integral with one of the end plates, to which the wire may be secured the said shank having a hole therein through which the end of the wire may be passed to more securely lock the wire in position.

5 In testimony that I claim the foregoing as my invention I have signed my name, in pres-

ence of two witnesses, this 11th day of August, 1904.

GUSTAVE L. HERZ.

Witnesses:

FREDK. HAYNES,
HENRY THIEME.