

J. D. ROBERTSON.
TERMINAL CLAMP.
APPLICATION FILED AUG. 5, 1910.

998,551.

Patented July 18, 1911.

Fig. 1.

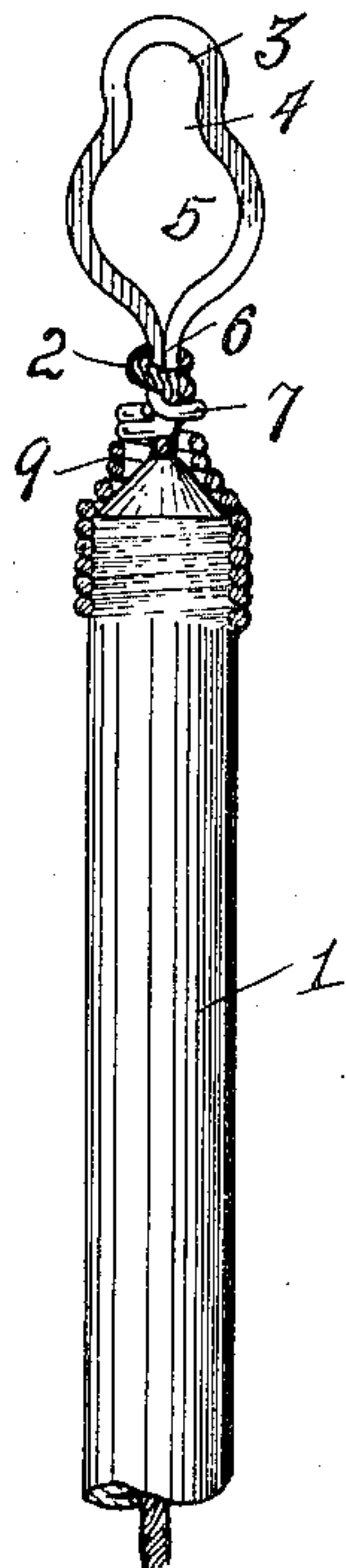


Fig. 2.

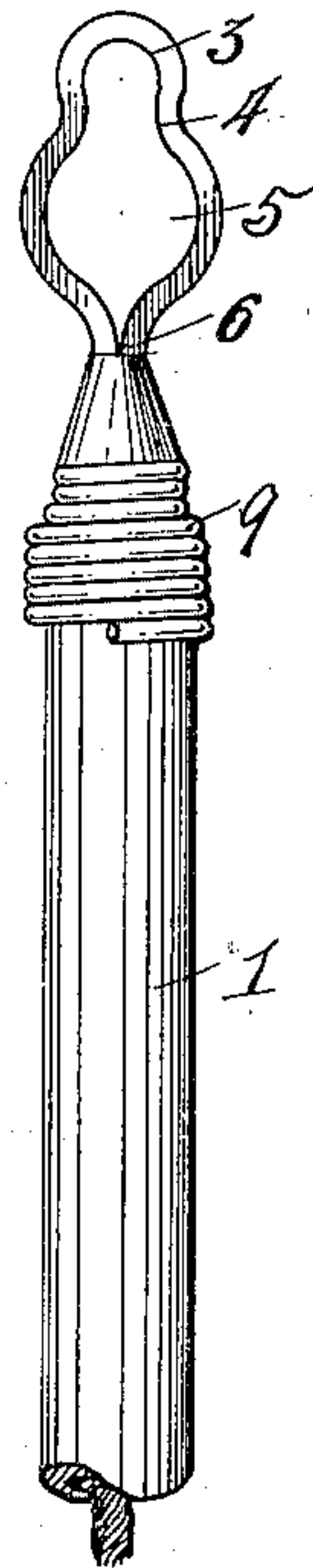
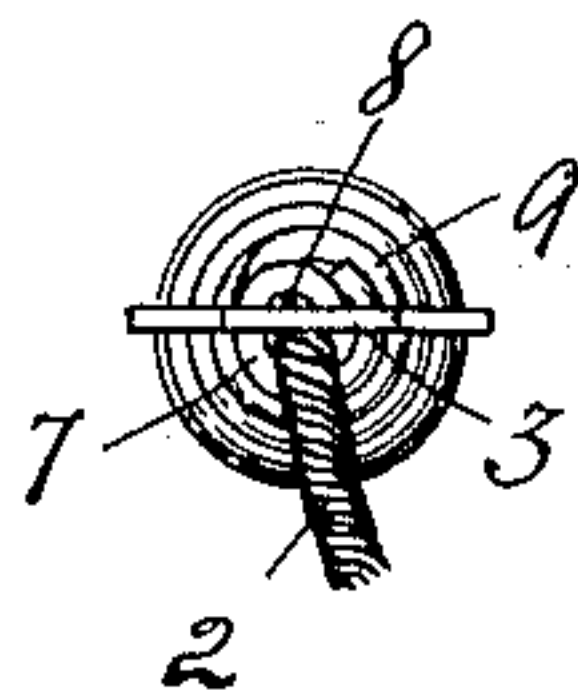


Fig. 3.



WITNESSES:

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JAMES D. ROBERTSON, OF TOLEDO, OHIO.

TERMINAL CLAMP.

998,551.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES D. ROBERTSON, a citizen of the United States, and a resident of Toledo, in the county of Lucas and State of Ohio, have invented a certain new and useful Terminal Clamp; 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 the figures of reference marked thereon, which form a part of this specification.

My invention relates to terminal clamps, and has for its object the provision of an improved clamp of this character, which is particularly adapted for attachment to the ends of insulated cables or wires and is simple and economical in its construction. The invention is not restricted to such use, however, as it may be used in any connection for which it may be adapted or appropriate.

The invention is fully described in the following specification and a preferred embodiment thereof illustrated in the accompanying drawings, in which,—

Figure 1 is a side elevation of a clamp comprising my invention attached to a wire, with a portion of the clamp in section. Fig. 2 is a side elevation thereof with the terminal wire soldered thereto, and Fig. 3 is an outer end view thereof with the solder removed and the wire terminal loosely engaged thereto.

Referring to the drawings, 1 designates an insulated conductor wire or cable, the terminal end of the wire of which is stripped of its insulation, as at 2.

The clamp of my invention is formed of wire, which is preferably of a resilient nature and bent upon itself to form a terminal clamping loop 3 having preferably a restricted mouth 4 opening into a larger opening 5 formed by the wire. The legs of the clamp-wire are drawn together into lateral abutment and continue straight for a distance to provide the neck portion 6 of the clamp, and one leg terminal coils around the other leg in an enlarged loop, as shown at 7, to provide an eye 8 at one side of the neck 6 through which the terminal end 2 of the conductor wire may be projected.

The terminal of the other leg of the clamp after passing through the loop 7 describes a plurality of convolutions 9, which coop-

erate to form a socket or hollow clamp-body into which the insulation adjoining the stripped end 2 of the conductor can be inserted. The socket thus formed is preferably made of suitable size to enable the insulation of the conductor wire to be screwed therein, the insulation, which is usually of a pliable nature, yielding to form threads therein conforming to the convolutions 9.

The terminal end 2 of the conductor wire, after passing through the socket formed by the convolutions 9 and the eye 8, is preferably wound around the neck 6, to form a perfect electrical contact with the clamp, as shown in Fig. 1. This being done, solder 10 is preferably applied around the neck 6 and upper end portion of the clamp socket or body, as shown in Fig. 2, to prevent a loosening of the wire 2 from the clamp. The snug fitting of the insulation of the conductor wire into the clamp socket relieves the terminal 2 of such wire from any holding strain, thus preventing liability of breaking such wire.

It is thus apparent that I have provided a terminal clamp which is simple, strong and durable in its construction, inexpensive of manufacture and adapted to form a perfect contact with the conductor wire, and at the same time relieve such wire of a holding strain, and which is also adapted to be securely and quickly applied to the terminal end of a conductor.

I wish it understood that my invention is not limited to any specific construction or arrangement of the parts except in so far as such limitations are specified in the claims.

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

1. In a terminal-clamp, a wire-like member bent upon itself to form a terminal receiving loop and having its legs drawn together at one side of such loop to form a neck portion with one leg coiled about the other and the other leg describing a plurality of convolutions to form a conductor receiving socket at the opposite end of the neck to said loop.

2. A terminal-clamp, comprising a wire-like member which is bent upon itself to form a terminal receiving loop and having its legs drawn together at one side of such loop and one leg terminating in an eye for receiving a wire terminal and the other leg describing a plurality of convolutions at

one side of such eye to provide a socket in register with but larger than such eye.

3. In combination, an insulated conductor having its terminal end stripped of insulation, a terminal clamp comprising a wire-like member which is bent upon itself to form a terminal receiving loop and having its legs drawn together at one side of such loop and cooperating to form a socket for receiving the stripped end of said conductor and a portion of its insulation, such socket being enlarged at its outer end and adapted to snugly receive the insulation.

4. In combination, an insulated conductor having its terminal end stripped of insulation, a terminal clamp comprising a wire-like member which is bent upon itself to

form a terminal receiving loop and having its legs drawn together at one side of such loop to provide a neck, one leg terminating in an eye and the other in a plurality of convolutions which form a socket in register at its inner end with such eye, the terminal end of the conductor being inserted through said loop and eye, and engaged to said neck and the adjacent insulation being threaded with said socket.

In testimony whereof, I have hereunto signed my name to this specification in the presence of two subscribing witnesses.

JAMES D. ROBERTSON.

Witnesses:

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C. W. OWEN.