No. 781,353. PATENTED JAN. 31, 1905.

S. PALMER.

CONDUIT FOR ELECTRIC WIRES.

APPLICATION FILED NOV. 17, 1903.

Fig. 1.

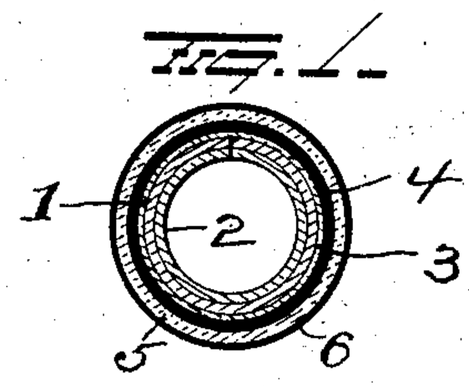


Fig. 2.

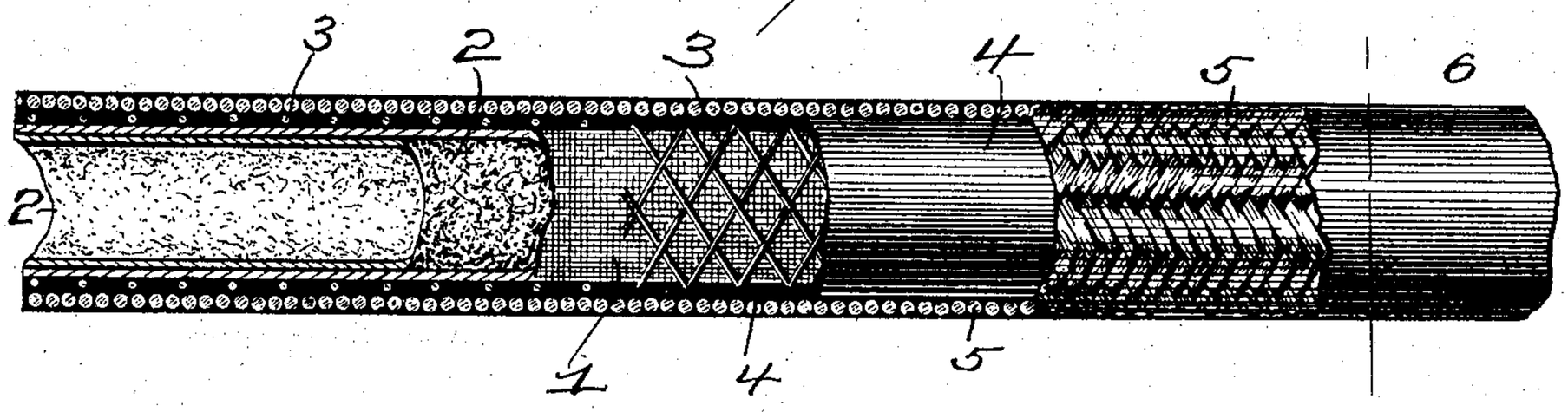
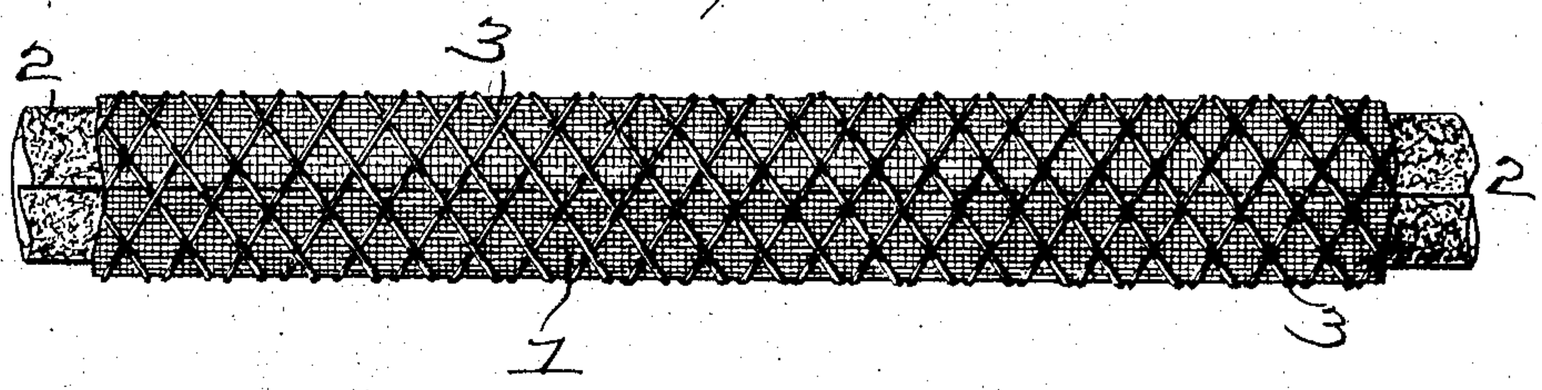


Fig. 3.



WITNESSES

E. L. Nottingham

G. F. Downing.

INVENTOR

Stephen Palmer

By H. G. Seymour

Attorney

No. 781,353. Patented January 31, 1905.

UNITED STATES PATENT OFFICE.

STEPHEN PALMER, OF TROY, NEW YORK, ASSIGNOR TO MARCUS M. WATERMAN, JAMES K. P. PINE, JAMES J. CHILD, HERBERT E. NORTHRUP, AND GEORGE W. DAW, OF TROY, NEW YORK.

CONDUIT FOR ELECTRIC WIRES.

SPECIFICATION forming part of Letters Patent No. 781,353, dated January 31, 1905.

Application filed November 17, 1903. Serial No. 181,539.

To all whom it may concern:

Be it known that I, STEPHEN PALMER, of Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Conduits for Electric Wires; 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.

My invention relates to an improved conduit for electric wires which consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a view in cross-section, illustrating my improvements. Fig. 2 is a view in longitudinal section, and Fig. 3 illustrates the inner fabric tube with my improved open braiding thereon.

1 represents an inner tube of woven fabric fireproofed in any approved manner and having an inner coating 2 of refractory material—such, for instance, as asbestos, mica, and the like. The tube 1 is formed from a strip curved longitudinally to bring its longitudinal edges together, and while in such position my improved open braiding 3 is located around the same. A waterproof adhesive material 4—such, for example, as asphaltum—is then applied over open braiding 3, and it will be observed the braiding 3 not only serves to hold the edges of fabric 1 together and the fabric in cylindrical form, but also provides a great number of openings, into which the adhesive material 4 (which is applied in a plastic condition) will pass and form innumerable keys to compel the perfect locking of the adhesive material and the formation of practically an integral tube. Around the adhesive material 4 is located a layer of closely-woven or braided fabric 5, and the latter is thoroughly impregnated and inclosed in an outer coating of water and fireproof adhesive material 6, and it will be understood that the tube can be built up to any desired thickness by applying alternate layers of fabric 5 and fire and waterproof material 6 until the desired thickness is produced.

By constructing a conduit as above described a tube of great textile strength is produced, one which owing primarily to the longitudinal disposition of the threads of the inner woven fabric 1 cannot stretch longitudinally. The open braiding 3 insures a tube of perfect formation and one in which the several coatings are securely locked into practically one integral mass.

The conduit is fireproof, waterproof, and sufficiently flexible to perform all the necessary functions of a device of this character.

Slight changes might be made in the general form and arrangement of the several parts described without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

As a new article of manufacture, a conduit for electric wires, comprising an inner tube of woven fireproofed fabric having an inner coating of refractory material, an open braiding inclosing said fabric tube, waterproof adhesive material inclosing said open braiding and entering the interstices thereof, a closely-woven braided fabric inclosing said adhesive material, and a coating of adhesive material inclosing said closely-woven braided fabric.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

STEPHEN PALMER.

Witnesses:
S. W. FOSTER,
S. G. NOTTINGHAM.