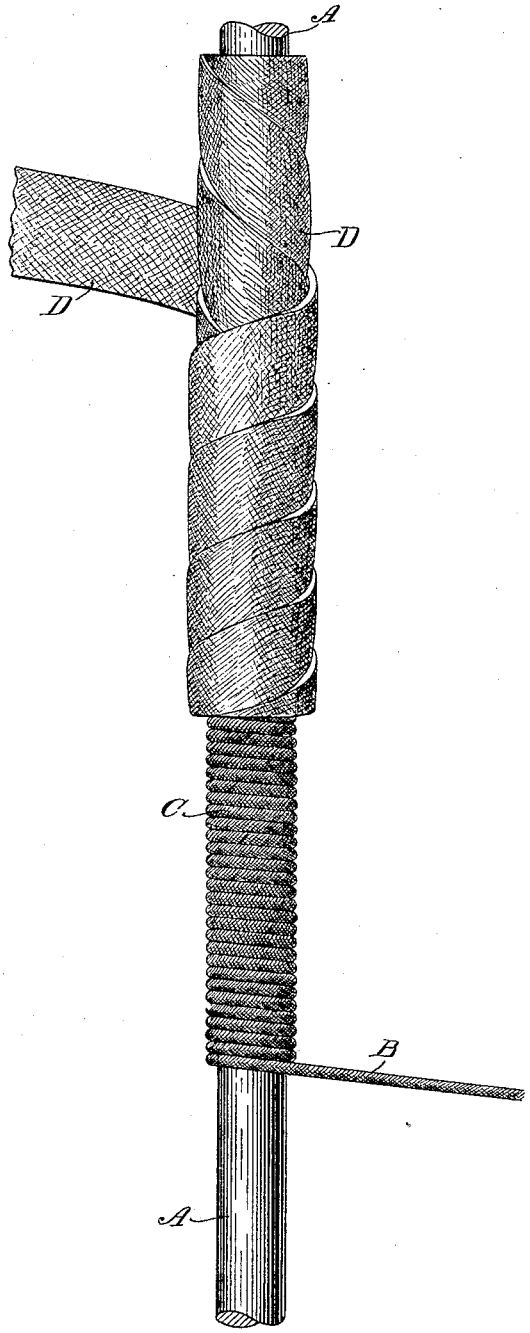
(No Model.)

D. MACFARLAN.

WATERPROOF INSULATED ELECTRIC CONDUCTOR.

No. 524,066. Patented Aug. 7, 1894.



Witnesses:
Thomas M. Smith.
Richard C. Maxwell.

Inventor.
Duncan Macfarlan,
By J. Walter Douglass.
Attorney.

UNITED STATES PATENT OFFICE.

DUNCAN MACFARLAN, OF PHILADELPHIA, PENNSYLVANIA.

WATERPROOF INSULATED ELECTRIC CONDUCTOR.

SPECIFICATION forming part of Letters Patent No. 524,066, dated August 7, 1894.

Application filed May 17, 1894. Serial No. 511,534. (No model.)

To all whom it may concern:

Be it known that I, DUNCAN MACFARLAN, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Fire and Water Proof Insulated Electric Conductors, of which the following is a specification.

My invention has relation to insulated electric conductors; and in such connection it relates more particularly to the construction and arrangement of an insulated conductor which is both fire and water proof for electric light, telegraph and other purposes.

The principal object of my present invention is to provide a simple and effective fire and water proof electric insulated conductor for electric lighting, telephone, telegraph and other uses.

My invention stated in general consists of an electric conductor constructed and arranged in substantially the manner hereinafter described and claimed.

The nature and scope of my invention will be more fully understood from the following description taken in connection with the accompanying drawing forming part hereof, illustrating in elevation an insulated fire and water proof electric conductor, embodying the features of my invention.

Referring to the drawing A, is the conductor of copper or other suitable metal of good conductivity for the passage of a current through the same.

B, is a structure comprising a cord or thread of asbestus or mineral wool wound around the conductor A, after the same has been thoroughly saturated with asphaltum, coal tar or the like C.

D, is rubber cloth or tarred canvas sheets or strips wound around the corded surface of the conductor in spiral or similar form and forming an outer covering therefor.

The asbestus or mineral wool in the form of a cord or thread saturated with asphaltum, coal tar or the like when applied to the conductor constitutes not only a perfect insulator but also a fire-proof covering therefor and the surrounding covering of sheets or strips of rubber cloth or tarred canvas renders the conductor water-proof, whereby is provided a conductor which as hereinbefore described is especially adapted for electric light, telephone and telegraph purposes, but it should be understood that it can be employed for other uses.

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

1. A water and fire proof insulated electric conductor having a thread or cord of fire-proof material saturated with a liquid insulating substance wound around the same and a water-proof sheet or strip surrounding said conductor, substantially as described.

2. A water and fire proof insulated electric conductor having a cord or thread of fire-proof material saturated with an insulating substance wound around the same and with an outer rubber cloth covering, substantially as described.

In testimony whereof I have hereunto set my signature in the presence of two subscribing witnesses.

DUNCAN MACFARLAN.

Witnesses:
RICHARD C. MAXWELL,
LOUIS WINTERBERGER.