

UNITED STATES PATENT OFFICE.

JOSEPH OLMSTED, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN INSULATING TELEGRAPH-WIRES.

Specification forming part of Letters Patent No. 129,858, dated July 23, 1872.

To all whom it may concern:

Be it known that I, JOSEPH OLMSTED, of the city and county of Providence, in the State of Rhode Island, have made certain new and useful Improvements in the "Method of Insulating Telegraph-Wires;" and I do hereby declare that the following specification is a full, clear, and exact description thereof.

The method of insulating now in use consists in braiding over the wire a fibrous covering, after which it is dipped in wax for the purpose of filling and closing the pores, and then, after a subsequent scraping to remove the surplus wax, is ready for use. This method is, however, objectionable, inasmuch as it leaves the covering in a very rough and soft condition, and fails to secure perfect insulation.

In my improved method, after the wire has received its covering I dip it in paraffine or

wax, after which, instead of scraping off the surplus coating, I pass the whole through a suitable machine, which compresses the covering and forces the paraffine or wax into the pores and secures perfect insulation.

Wire insulated in this manner is entirely impervious to the atmosphere, of greater durability, and less cumbersome than any heretofore made.

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

The method of filling the pores of the covering by dipping in paraffine or wax and subsequently compressing the same, in the manner substantially as described.

JOSEPH OLMSTED.

Witnesses:

WALTER B. VINCENT,
NATHANIEL L. MORGAN.