No. 854,489. PATENTED MAY 21, 1907.

J. GRIBBEN.

TROLLEY POLE SUPPORT.

APPLICATION FILED JAN. 23, 1907.

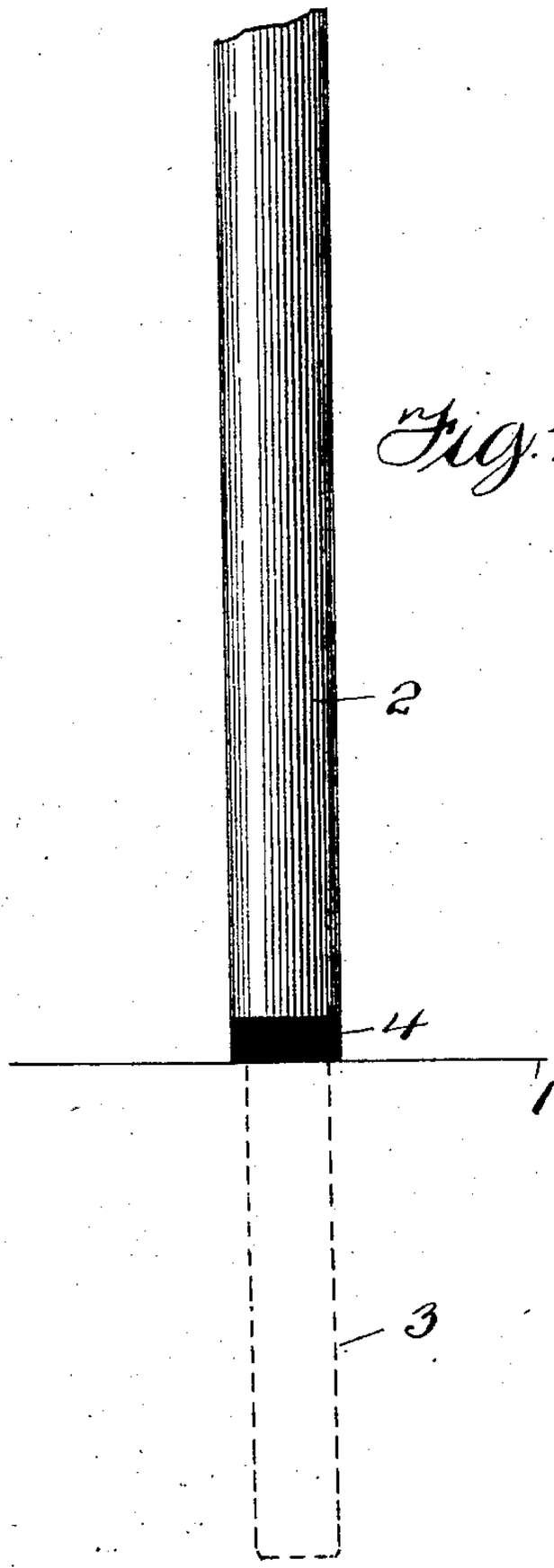

Fig. 1.

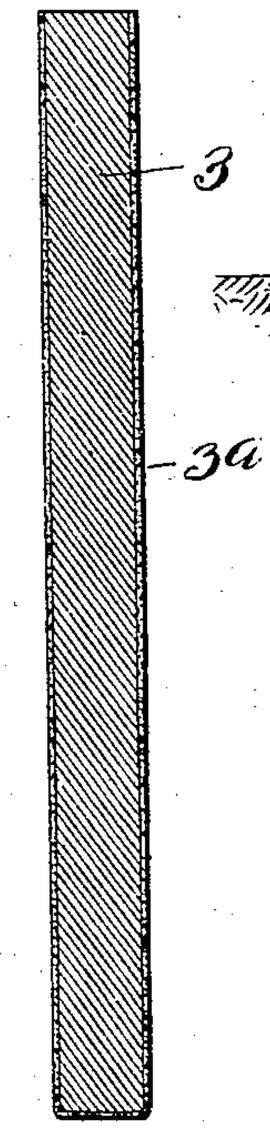

Fig. 3.

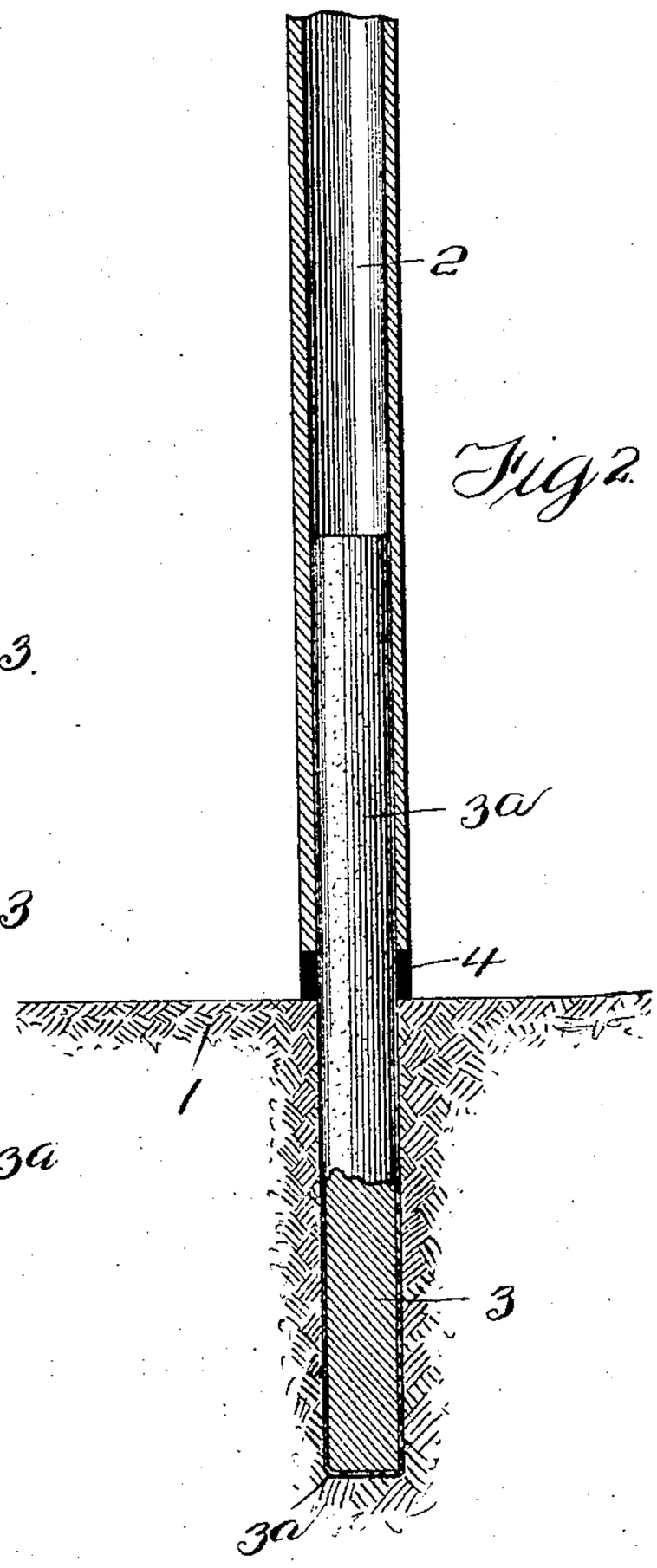

Fig. 2.

WITNESSES:

Samuel Payne

R. H. Parker

INVENTOR

J. Gribben.

BY H. C. Evert & Co.

Attorneys

UNITED STATES PATENT OFFICE.

JOHN GRIBBEN, OF SHARPSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO DAVID J. MORGAN, OF PITTSBURG, PENNSYLVANIA.

TROLLEY-POLE SUPPORT.

No. 854,489. Specification of Letters Patent. Patented May 21, 1907.

Application filed January 23, 1907. Serial No. 353,738.

To all whom it may concern:

Be it known that I, JOHN GRIBBEN, a citizen of the United States of America, residing at Sharpsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Trolley-Pole Supports, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to trolley pole supports, and the invention has for its object to provide a support for preventing the electrolysis of water mains, sewers, gas pipes and conduits. To this end, I have devised novel means for insulating a trolley pole, telegraph pole or similar wire supporting standard or pole. In this connection, my invention is particularly designed for metallic poles for supporting trolley wires, these poles being commonly used upon streets in connection with street railway systems.

Heretofore considerable trouble has been experienced in the electrolysis of sewers and conduits, an electrical circuit being completed through a trolley wire pole and street railway tracks sufficiently to create a spark in a sewer or conduit and cause a detonation of sewer gas, which is dangerous to pedestrians upon the street.

My invention aims to obviate the electrolysis of underground conduits by thoroughly insulating trolley wire poles or their supports, thereby preventing an electrical circuit of any dangerous magnitude being formed in the ground adjacent to sewers or similar conduits.

The novel manner in which I insulate a trolley pole or similar support will be presently described in detail and then specifically pointed out in the appended claims.

Referring to the drawing forming part of this specification, like numerals of reference designate corresponding parts throughout the several views, in which:

Figure 1 is an elevation of a portion of a pole insulated according to my invention, Fig. 2 is a vertical sectional view of the same, Fig. 3 is a vertical sectional view of the trolley pole support or foundation.

In the accompanying drawing, 1 designates the ground in which a trolley pole is generally planted or erected, while 2 designates the lower end or base of a cylindrical metallic trolley pole.

My invention resides in supporting the pole 2 above the ground 1 by a locust post 3, the upper end of said post being of a diameter equivalent to the inner diameter or bore of the pole 2. The locust post 3 is coated with tar or similar preservative ingredient 3^a which will serve functionally as an insulator as well as a preserving coating for the post 3.

Prior to erecting the pole 2, the locust post 3 is placed in the end of the pole 2, and then the pole 2 is erected in the ground 1, by the lower end of the post 3 being thoroughly tamped and held within the ground 1.

To further insulate the pole 2 from the ground 1 I use a suitable insulating material 4, as hard rubber, porcelain or a similar non-conductive material and I mount said material between the pole 2 and the ground 1 surrounding the locust post 3. The insulating material 4 may be made in the form of a collar whereby it may be readily placed over the end of the locust post 3 prior to placing said post in the ground 1.

I do not care to confine myself to the use of locust in connection with the post 3, as a similar durable wood or material can be readily used.

What I claim and desire to secure by Letters Patent, is:—

1. The combination with a cylindrical trolley pole adapted to be supported in the ground, of a coated post mounted in said pole and ground and adapted to support said pole above said ground, and a collar of insulating material interposed between said pole and ground, substantially as described.

2. The combination with a trolley pole adapted to be supported from the ground, of a locust post fitting in said pole and in the ground for supporting said pole above the ground, and a collar of non-conductive material interposed between said pole and the ground, substantially as described.

3. The combination with a trolley pole adapted to be supported from the ground, a wooden post mounted in said pole and in said ground, and an insulating material interposed between said pole and the ground and surrounding said wooden post.

4. The combination with a hollow metallic trolley pole, of a post received in the hollow pole and supporting said pole, a coating or sheath of preservative material on said post, and an insulating material surrounding said

post beneath said pole, substantially as described.

5. The combination with a hollow metallic trolley pole, of a wooden post entering the lower end of the pole and supporting the latter, and an insulating material arranged around the lower end of said pole.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN GRIBBEN.

Witnesses:
MAX H. SROLOVITZ,
K. H. BUTLER.