

UNITED STATES PATENT OFFICE.

JOHN A. HEANY, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE TETER-HEANY DEVELOPING COMPANY, OF PHILADELPHIA, PENNSYLVANIA, AND CHARLESTON, WEST VIRGINIA, A CORPORATION OF WEST VIRGINIA.

WATER, ACID, AND FIRE PROOF COMPOSITION.

SPECIFICATION forming part of Letters Patent No. 703,199, dated June 24, 1902.

Application filed November 11, 1901. Serial No. 81,830. (No specimens.)

To all whom it may concern:

Be it known that I, JOHN ALLEN HEANY, 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 Water, Acid, and Fire Proof Compositions and Method of Making the Same, of which the following is a specification.

My invention has relation to a composition of matter designed to render metallic conductors waterproof, fireproof, and acid-proof; and in such connection it relates to the ingredients forming such a composition.

The principal ingredients in the improved composition of matter and the manner in which the same are combined is as follows: Linseed-oil or equivalent oil, one pint or fifteen ounces, is first heated to the boiling-point, and then one ounce of litharge and one ounce of red lead are first thoroughly mixed or mortared together and then incorporated or added to the boiling linseed-oil. The mixture is then boiled and stirred for about one hour, and then add, if desired, copal gum. This mixture is then again boiled until the mass becomes thick and black, at which point all or nearly all the free or volatile linic acid, when linseed-oil is used, has been driven off, the stable linic or other acid combining with the metallic oxids, forming a metallic compound. When this compound is cool, it is hard or solid and somewhat of a gummy nature. It is applied to the substance to be coated in a heated condition, and when it cools on the substance it is pliable and readily flexes with the substance. The compound thus formed is particularly desirable for use on asbestos-insulated wires or metallic surfaces, since it readily adheres to or penetrates the asbestos and renders the same unattackable by water, acid, or heat.

Having thus described the nature and object of my invention, what I claim as new, and desire to secure by Letters Patent, is— 45

1. A water, acid and fire proof insulation for metallic conductors, consisting of a covering of asbestos coated with a mixture of oil and metallic oxids, said mixture combined by boiling until the free acid of the oil has been driven off. 50

2. A water, acid and fire proof insulation for metallic conductors, consisting of a covering of asbestos united to the part to be insulated and then coated with a mixture of oil and metallic oxids. 55

3. A water, acid and fire proof insulation for metallic conductors, consisting of a layer of asbestos covering the surface to be insulated and a coating of oil combined with metallic oxids applied directly to the covering of asbestos. 60

4. A water, acid and fire proof insulation for metallic conductors, comprising a covering of asbestos, coated with oil, red lead and litharge combined by boiling until the free acid of the oil has been driven off. 65

5. The method of insulating metallic conductors which consists in first covering the surface to be insulated with asbestos, second forming a mixture of oil and metallic oxids by boiling the oil and oxids until the free acid of the oil has been driven off and finally coating the asbestos covering with the mixture of oil and metallic oxids thus formed. 75

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

JOHN A. HEANY.

Witnesses:

J. WALTER DOUGLASS,
THOMAS M. SMITH.