

UNITED STATES PATENT OFFICE.

EDWARD COVINGTON, OF SALT LAKE CITY, UTAH.

FIREPROOF AND WATERPROOF COMPOSITION.

No. 816,532.

Specification of Letters Patent.

Patented March 27, 1906.

Application filed July 16, 1903. Renewed August 12, 1905. Serial No. 274,014.

To all whom it may concern:

Be it known that I, EDWARD COVINGTON, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and State of Utah, have invented new and useful Improvements in Fireproof and Waterproof Compositions, of which the following is a specification.

My composition consists of the following ingredients, which are mixed in proportions varying according to conditions and the particular use or uses for which the composition is designed.

The ingredients are as follows: burnt gypsum, mica, silica, graphite, and mica-schist. The ingredients named are combined and put up in granular or powdered form ready for use, the composition being ordinarily placed upon the market in sacks, bags, or similar receptacles.

The composition is ordinarily placed upon the market in four different grades, grade 1 being the finest and grade 4 the coarsest. Grade No. 1 is mixed with water and brought to the consistency of plaster and applied with a trowel. When dry, it forms a cement and is well adapted for use in connection with safety-vaults and fireproof buildings. It may also be used for roofing and floors, being both fire and water proof and non-heat conducting. Grade No. 2 is combined with pitch or its equivalent. The pitch is spread over the surface to be covered or treated, and the composition is then sifted over the pitch, adhering thereto and forming a fire and water proof coating. Grades Nos. 3 and 4,

which are coarser, are applied in the same manner as grade No. 2 and are especially designed for the protection of iron, wood, water and gas pipes, bridge-timbers, warehouses, water-flumes, powder-magazines, docks, wharves, piles, pier-timbers, and the like, rendering the same fire and water proof.

In grade No. 1 the ingredients are mixed with water and combined in about the following proportions: mica, fifty per cent.; burnt gypsum, twenty-five per cent.; silica, fifteen per cent.; graphite, five per cent.; mica-schist, five per cent.

In grade No. 2 the ingredients are combined with pitch or its equivalent in about the following proportions: mica, seventy-five per cent.; silica, ten per cent.; graphite, ten per cent.; mica-schist, five per cent.

In grades Nos. 3 and 4, which are combined with pitch or its equivalent, the ingredients are combined in about the following proportions: mica-schist, forty per cent.; mica, thirty per cent.; silica, twenty per cent.; graphite, ten per cent.

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

The herein-described composition of matter consisting of burnt gypsum, mica, silica, graphite and mica-schist, substantially as and for the purpose specified.

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

EDWARD COVINGTON.

Witnesses:

THOMAS H. JENKINS,
ERNEST H. COLE.