

UNITED STATES PATENT OFFICE.

WILLIAM CHURCH, OF ST. PAUL, MINNESOTA.

FIRE-PROOF PAINT.

SPECIFICATION forming part of Letters Patent No. 478,785, dated July 12, 1892.

Application filed February 10, 1891. Serial No. 380,946. (No specimens.)

To all whom it may concern:

Be it known that I, WILLIAM CHURCH, of St. Paul, Ramsey county, and State of Minnesota, have invented certain Improvements in Fire-Proof Paints, of which the following is a specification.

My invention relates to improvements in paints for exterior and interior use; and it consists in an improved composition of matter which, after being applied to the object, forms a non-combustible or fire-proof coating, whereby the object is protected from danger of fire and more efficiently preserved.

My invention further consists in the composition of matter hereinafter described, and particularly pointed out in the claims.

My improved composition consists for each gallon thereof of about three pints linseed-oil, one pint lime-water, one pint alum-water, two pounds pulverized borax, four and one-half pounds dry mineral paint, and one pint manganese drier. In making the composition I prefer to first dissolve the borax in the lime and alum waters. This solution and the oil, then being heated, are mixed together and the paint and drier added thereto. This composition is preferably for exposed or outside use; but for inside use I prefer to vary the composition slightly and form it as follows: one pint linseed-oil, one pint lime-water, two pints alum-water, two pounds pulverized borax, four and one-half pounds of white lead, zinc, or other mineral paint, one pint manganese drier, and one pint glue sizing. The lime, alum, and borax are used to fire-proof the composition, and while the proportions specified are preferred, yet they may be slightly varied, if necessary, or the alum-wa-

ter may in some cases be entirely omitted and the amount of lime-water and borax proportionately increased.

In mixing the inside paint the same method is pursued as above described for mixing the first-named composition, the glue being added, together with the mineral paint and manganese drier, to the solution of borax with the lime and alum water and linseed-oil.

While I have made and prefer to use manganese drier, other driers, if preferred, which will serve efficiently for the purpose may be used. The paint when prepared as described is in liquid form and is applied in the same manner as ordinary paint.

I claim—

1. As an improved article of manufacture, the foregoing-described composition of matter, composed of linseed-oil, lime-water, alum-water, borax, a mineral paint, and a suitable drier, in substantially the manner and proportions specified.

2. The foregoing-described composition of matter, composed of linseed-oil, lime-water, alum-water, borax, a mineral paint, glue sizing, and a suitable drier, substantially as and in the proportions specified.

3. The foregoing-described composition of matter, consisting of linseed-oil, lime-water, borax, glue sizing, a mineral paint, and a drier, substantially as and in the proportions specified.

In testimony whereof I have hereunto set my hand this 1st day of June, 1890.

WILLIAM CHURCH.

Witnesses:

T. D. MERWIN,
A. MAE WELCH.