

UNITED STATES PATENT OFFICE.

WILLIAM HENRY POLLEYS, OF MELROSE, WISCONSIN.

FIRE-EXTINGUISHING COMPOUND.

SPECIFICATION forming part of Letters Patent No. 328,250, dated October 13, 1885.

Application filed March 17, 1885. Serial No. 159,132. (No specimens.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY POLLEYS, of Melrose, in the county of Jackson and State of Wisconsin, have invented a composition of matter to be used for drying, preserving from decay, and rendering fire-proof all kinds of wood material.

My composition consists of the following ingredients combined in the proportions stated, viz: borax, one pound; potash, one-half pound; alum, three-quarters pound; mica cut in muriatic acid, two ounces; glue, one pound; salt, five pounds; water, ten gallons. These ingredients are mixed together and boiled one hour, when the composition is ready for use for painting or extinguishing purposes.

For saturating wood material mix the composition with water in the proportions of one gallon of the composition to three gallons of water until the desired quantity is obtained. Then for each thousand of shingles treated add one gallon of the composition and three gallons of water.

For each thousand feet of lumber (board-measure) add eight gallons of the composition and twenty-four gallons of water.

In using the composition for saturating lumber the composition is put into a sheet-iron vessel of suitable size, and heat can be applied by setting the vessel over an arch or furnace in which a fire can be built, or heat can be applied by steam. In the latter case the vessel can be made of wood.

Loose or unbunched shingles should be boiled in the composition ten minutes; bunched shingles thirty minutes; inch-thick boards fifteen minutes, and ten minutes additional time for each additional inch in thickness of the lumber.

The composition should be kept boiling during the entire time of treatment.

Wood treated with this material will be much more durable than wood in its natural state, and will not be liable to be set on fire by sparks, coals, pieces of hot iron, or by any accidental cause of fire.

When the composition is to be applied as a paint, any required color can be given to it by adding the requisite coloring material.

A great advantage of this composition is that it can be prepared and applied at a trifling expense, and will make the lumber three times as valuable as the same quality of lumber in its natural state.

Having thus fully described my invention, I claim and desire to secure by Letters Patent—

The herein-described composition of matter, to be used for drying, preserving from decay, and rendering fire-proof all kinds of wood material, consisting of borax, potash, alum, mica cut in muriatic acid, glue, salt, and water, in the proportions substantially as specified.

WILLIAM HENRY POLLEYS.

Witnesses:

CHAS. W. BEEDLE,
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