

6. Steatite
6. Asbestos fiber

607,292

UNITED STATES PATENT OFFICE.

JOHANNES STOCKER, FRIEDRICH MEISSNER, AND HERMANN ZANDER, OF
RATHENOW, GERMANY.

FIRE AND WEATHER PROOF COMPOSITION.

SPECIFICATION forming part of Letters Patent No. 607,292, dated July 12, 1898.

Application filed June 25, 1897. Serial No. 642,342. (No specimens.)

To all whom it may concern:

Be it known that we, JOHANNES STOCKER, FRIEDRICH MEISSNER, and HERMANN ZANDER, subjects of the King of Prussia, German Emperor, residing at Rathenow, in the Kingdom of Prussia, Germany, have invented certain new and useful Improvements in Fire and Weather Proof Composition, of which the following is a specification.

This invention relates to a fire and weather proof composition which can be made serviceable for a large number of industrial purposes and which can be produced at comparatively small expense.

The composition can be used either in liquid or solid state. When prepared in liquid state, it can be used for painting roofs in place of coal-tar, also as a coating for steam-boilers, ships, and wire cables. When it is to be used in solid state, it is formed in plates of any desired size and in this condition can be worked with the lathe, drill, or tap.

Our improved fire and weather proof composition is produced in the following manner: Three parts of caustic soda are dissolved in twenty parts of sodium or potassium silicate. To the solution ten parts of ground fire-clay are added. This mixture is allowed to stand for about three hours, and to it then are added two parts of burnt magnesite, two parts of ground potters' clay, and six parts of a suitable filling material, such as steatite or ground asbestos fiber. The composition may be made of any desired color by adding the proper pigment. All the proportions given are by weight.

When it is desired to obtain the composition in liquid state, it is mixed in a paint-grinding mill with five parts of the oil of the ground-nut. In this form it can be used for the painting of exposed parts of buildings—such as roofs, walls, and the like—and forms thereby a fire and weather proof protection for the same.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The herein-described fire and weather proof composition, consisting of sodium or potassium silicate, and caustic soda dissolved in the same, ground fire-clay, burnt magnesite, ground potters' clay, and a suitable filling material, substantially as set forth.

2. The herein-described fire and weather proof composition, consisting of sodium or potassium silicate, and caustic soda dissolved in the same, ground fire-clay, burnt magnesite, ground potters' clay, a suitable filling material, and oil of the ground-nut, substantially as set forth.

In testimony that we claim the foregoing as our invention we have signed our names in presence of two subscribing witnesses.

JOHANNES STOCKER.
FRIEDRICH MEISSNER.
HERMANN ZANDER.

Witnesses:
HENRY HASPER,
W. HAUPT.

references.