

UNITED STATES PATENT OFFICE.

ALWIN NIESKE, OF DRESDEN, GERMANY.

PROCESS OF FIREPROOFING AND PRESERVING FABRICS, &c.

SPECIFICATION forming part of Letters Patent No. 675,901, dated June 11, 1901.

Application filed May 19, 1900. Serial No. 17,292. (No specimens.)

To all whom it may concern:

Be it known that I, ALWIN NIESKE, a subject of the King of Saxony, residing at No. 10 Bautzener Chaussee, in the city of Dresden, in the Kingdom of Saxony, in the German Empire, have invented new and useful Improvements in the Treatment of Materials for Fireproof and Preservative Purposes, of which the following is a specification.

For a considerable time past metal salts have been used for the purpose of rendering organic material fireproof; but either the material so treated is injured by the salts or conditions arise which either greatly lessen the desired effect or altogether render it ineffective. After long-continued experiments it has been found that the salts of molybdenum, and especially molybdate of sodium, when used as an impregnating medium for fireproofing purposes is absolutely free from the drawbacks attaching to other means.

Textile fabrics, cloth, feathers—in short, organic materials generally—are rendered fireproof by treating them with, say, a ten-per-cent. solution of molybdate of sodium; but there is still another great advantage resulting from such treatment, since it acts as a much more effective preservative against decay and other destroying influences than tar-oils, sublimates, zinc, and like means which are usually employed for that purpose. Valuable documents, manuscripts, drawings, and the like are not only rendered safe against all kinds of destructive influences by painting them over or treating them with the above solution, but the latter will arrest any further decay from such causes, however great the harm already done may be. Moreover, the cost of material and treatment is small, a small quantity of sodium molybdate serving for the treatment of a large quantity of material, considering its low molecular weight—ninety-five per cent.

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

1. The process of fireproofing and preserving organic materials, which consists in subjecting such materials to a solution of molybdenum salts, substantially as described.

2. The process of fireproofing and preserving organic materials, which consists in subjecting such materials to a solution of molybdate of sodium, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ALWIN NIESKE.

Witnesses:

HERNANDO DE SOTO,
PAUL ARRAS.