

# UNITED STATES PATENT OFFICE.

MICHAEL KUNZ, OF OBERHAUSEN-AUGSBURG, GERMANY.

## COMPOSITION FOR FILLING WOOD.

SPECIFICATION forming part of Letters Patent No. 302,742, dated July 29, 1884.

Application filed April 29, 1884. (Specimens.) Patented in Germany June 24, 1883, No. 26,424; in Belgium February 4, 1884, No. 46,881; in France February 13, 1884, No. 147,808, and in Austria-Hungary March 3, 1884.

*To all whom it may concern:*

Be it known that I, MICHAEL KUNZ, of Oberhausen-Augsburg, in the Empire of Germany, have invented certain new and useful  
5 Improvements in Wood-Filling Compositions, (for which Letters Patent have been granted to me heretofore by the following governments: Germany, No. 26,424, dated June 24, 1883; France, No. 147,808, dated February 13, 1884;  
10 Belgium, No. 46,881, dated February 4, 1884; and Austria-Hungary, not numbered, dated March 3, 1884,) of which the following is a specification.

This invention has reference to an improved  
15 composition for filling the pores of wood employed in the manufacture of furniture, pianos, and other articles, to be used after the veneers are laid on, smoothed, and ground off; and the invention consists of a wood-filling composition, in which the following ingredients  
20 are combined in the proportions stated, to wit: finely-ground glue, four parts; alcohol, five parts; benzine or oil of turpentine, one part, and a trace of red aniline or other color.

25 The composition is prepared by dissolving the finely-ground glue in alcohol in a vessel placed into a hot-water bath. When the glue is dissolved, the benzine or oil of turpentine and the aniline or other color are added. The  
30 alcoholic solution of glue is quickly taken up by the wood, and prevents the wood changing color after polishing, which is the case when glue is used which has been dissolved in water. After the pores are filled by rubbing in the  
35 composition, the wood is allowed to dry. The

surface is then ground off carefully with felt and pumice-stone and a suitable grinding composition, after which the wood is ready for being polished.

By the use of my improved filling composition the time and labor required for polishing the surfaces are considerably reduced, the pores of the wood closed and prevented from sweating, and, after polishing, a higher finish  
40 obtained.

I am aware that a mixture of sulphur with alcohol or with an alcoholic varnish has been used heretofore. I am also aware that the same ingredients used by me have been used  
45 in combination with other ingredients as a sizing or wash to be used for applying dry colors for painting purposes. The compounds referred to I do not claim, as they are essentially different from my wood-filling composition, in which the glue is not mixed, but dissolved in alcohol, and then mixed with benzine or oil of turpentine.  
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Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A wood-filling composition consisting of an  
55 alcoholic solution of finely-ground glue and benzine, or oil of turpentine, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.  
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MICHAEL KUNZ.

Witnesses:

RUDOLPH REHM,  
ROBERT FURST.