

# UNITED STATES PATENT OFFICE.

DE WITT C. COOLEY, CHAS. F. SMITH, AND C. E. BRADLEY, OF AURORA,  
ILLINOIS.

## IMPROVED COMPOSITION FOR FILLING THE PORES OF WOOD.

Specification forming part of Letters Patent No. 49,382, dated August 15, 1865.

*To all whom it may concern:*

Be it known that we, DE WITT C. COOLEY, CHARLES F. SMITH, and CYRUS E. BRADLEY, of Aurora, in the county of Kane and State of Illinois, have invented a new Compound for Filling Wood; and we do hereby declare that the following is a full and exact description of all the ingredients used, the method of compounding the same, and the manner of using our wood-filling.

The object of our invention is to provide a compound of different materials by the use of which the pores of wood can be conveniently filled preparatory to finishing with varnish or oil.

To enable others to use our filling, we will describe the method of preparing and applying the same.

The compound is prepared as follows, and we generally prefer the given quantities of each: turpentine or benzole, two gallons; boiled lindseed-oil, one gallon; calcined magnesia, one-half pound; japan, two gallons; starch, twenty pounds. These ingredients we grind together in a common paint-mill in the usual manner until they are thoroughly incorporated in one body. When this is done the filling is ready for use.

Operation or method of applying our filling to the wood: We generally apply the filling to the surface of the wood by means of a common paint or varnish brush, but it can be applied with a sponge. One coat of the filling is gen-

erally sufficient, but for very porous wood two can be applied. After the filling has been put on with the brush we rub it in thoroughly with a sponge or rag in the usual manner. We then allow the filling to dry, and then the wood is ready for a varnish or oil finish. If an oil finish is required, it should be applied in the usual manner of such a finish, after filling the wood. If the work is required to have a varnish finish, one coat of varnish will finish cherry, mahogany, and common furniture, and two coats of varnish will be sufficient for oak or walnut wood. In filling wood for paint, the filling is used the same as for varnish or oil. In using our filling two coats of varnish are saved, as one coat of filling and two coats of varnish are equal to four coats of the best varnish without the application of the filling.

Now, having fully described our compound for filling wood, what we claim as our invention, and desire to secure by Letters Patent of the United States, is—

A compound for filling wood made of the ingredients herein described, and mixed together in about the proportions and substantially in the manner set forth.

DE WITT C. COOLEY.  
CHARLES F. SMITH.  
CYRUS E. BRADLEY.

Witnesses:

A. E. BARKER,  
H. A. SEARLES.