

# UNITED STATES PATENT OFFICE.

JOHN HAWKSLEY, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN PROCESSES OF FILLING AND FINISHING HARD WOODS.

Specification forming part of Letters Patent No. **184,618**, dated November 21, 1876; application filed September 14, 1876.

*To all whom it may concern:*

Be it known that I, JOHN HAWKSLEY, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a certain new and useful Improvement in Finishing Hard Woods, of which the following is a specification:

The object of my invention is to economize time and labor in the operation of finishing hard wood-work, such as doors, partitions, &c.; and my improvement consists in the application of certain compounds for filling the pores of the wood, and imparting a smooth and finished surface thereto, as hereinafter fully set forth.

In treating hard woods according to my improvement I first fill the pores with my No. 1 or filling compound, the composition of which is as follows: Sifted whiting, one and one-fourth pound; raw linseed-oil, one gill; Japan drier, a half tea-spoonful; turpentine, one gill—to be stirred together until thoroughly mixed.

Any suitable pigment or coloring matter may be added—as, for example, when used on oak or ash, a half tea-spoonful chrome-yellow, ground in oil, and one tea-spoonful yellow ochre, ground in oil; for walnut or other dark wood, one tea-spoonful burnt umber and a half tea-spoonful burnt sienna.

The No. 1 compound is to be applied to the wood with a paint-brush, and allowed to stand until the gloss has entirely left it—say, not less than twenty minutes—after which the wood is to be rubbed with a piece of rag across the grain, and afterward with a clean rag length-

wise of the grain, to remove any superfluity of the compound.

About twelve hours after the application of the No. 1 compound I apply another coat of the same, having previously added thereto about one and a half gill turpentine and one table-spoonful Japan drier. This will complete the operation of filling the pores, and, after the lapse of, say, twelve hours, will render the wood suitable for the reception of the finishing or No. 2 compound, which is composed of Japan drier, one gill; turpentine, one gill; and inside varnish, one-third gill; to be mixed together and applied with a clean brush. Outside varnish alone may be used as a finish in place of No. 2 in some instances.

By my improvement hard woods can be finished in much less time than by the tedious process ordinarily practiced of applying from four to six coats of shellac, and rubbing with sand-paper after each coat, and without risk of injury from sun and rain.

I claim as my invention and desire to secure by Letters Patent—

The process of finishing hard woods, which consists in applying successive coatings of a filling compound, consisting of whiting, linseed-oil, turpentine, and Japan drier, and a finishing compound consisting of Japan drier, turpentine, and inside varnish, substantially in the manner herein set forth.

JOHN HAWKSLEY.

Witnesses:

J. SNOWDEN BELL,  
S. R. BELL.