

United States Patent Office.

JACOB SELLER, OF WILMINGTON, DELAWARE.

Letters Patent No. 78,613, dated June 2, 1868.

COMPOSITION FOR FILLING THE PORES OF WOOD FOR VARNISHING.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JACOB SELLER, of Wilmington, New Castle county, and State of Delaware, have invented a new Composition for Filling the Pores of Wood previous to Polishing or Varnishing, of which I declare the following to be an exact description:

I take one-half ($\frac{1}{2}$) gallon of raw linseed-oil, one (1) quart of japan-varnish, one (1) quart of turpentine, one (1) ounce of sugar of lead, and four (4) pounds of arrowroot. Mix the whole together, and then grind the composition through a mill. It is then ready for use.

I apply this composition, with an ordinary varnish-brush, to the surface of the wood to be coated or varnished. I then let it have sufficient time (say ten or fifteen minutes) to set itself into the wood, so as to fill up the pores of the wood completely. After that, I rub the surface of the wood with dry saw-dust, so as to remove the surplus composition on the face of the wood, to give it a perfectly even surface.

The composition does not discolor the wood, but brings out the various shades of the grain and beauty of the wood.

I then let it remain for about six hours, to become firm and smooth, so as to receive a light coat of varnish.

The advantages of these several ingredients are, viz:

The oil is good to give a surface to the wood, to prevent the fibres or grain from peeling, and to give the operator the chance to work the composition on the wood. The japan helps the composition to dry, and the sugar of lead to harden it. The arrowroot gives it body to fill the pores of the wood perfectly even, and the turpentine helps to destroy the effects of the oil upon the first coat of varnish, which usually cracks in drying when varnish is put on an oiled surface.

The object is to save one-third of varnish commonly used in varnishing fine work, say, finishing of pianos, inside finish of cars, or in all kinds of work, and much labor saved in not having to rub the varnish down between each coat, so as to get a fine polish, as is usually the case.

The number of coats of varnish on a piano are from ten to twelve, whilst with my composition three or four coats produce the same effect and finer polish.

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

The combination of the within-named ingredients, when mixed in the several quantities and proportions as herein described, and for the purpose set forth.

JACOB SELLER.

Witnesses:

E. D. MAYHEW,

EDM. F. BROWN.