

UNITED STATES PATENT OFFICE.

GEORGE MULLER, OF PHILADELPHIA, PENNSYLVANIA.

PROCESS OF VENEERING WITH FABRIC.

SPECIFICATION forming part of Letters Patent No. 421,298, dated February 11, 1890.

Application filed November 5, 1889. Serial No. 329,366. (No specimens.)

To all whom it may concern:

Be it known that I, GEORGE MULLER, a citizen of the Republic of France, now domiciled in the city and county of Philadelphia and State of Pennsylvania, United States of America, have invented a new and useful Process of Veneering with Fabric, of which the following is a specification.

My invention consists in veneering wood or other materials or substances with a printed or plain fabric, and finishing the same with a glossy surface, and is an improvement on the process of veneering with fabric patented to me in and by Letters Patent of the United States No. 337,346, dated March 2, 1886.

In carrying out my invention the wood or other substance to be veneered is first sized with a suitable composition, and for this purpose I find a composition consisting of three parts glue and one part whiting best, as it will present a whitish surface and not tend to change the colors of the fabric nor change it in any manner. After the sizing material or compound has been applied and become dry it is well rubbed in until a perfectly smooth and even surface is obtained. I then coat this sized surface with an adhesive mixture and apply the veneering fabric. For this purpose I find a composition consisting of three equal parts of flour-paste, starch, and gelatine and one-fourth of one part white lead best, as by its use I obtain a very adhesive mixture presenting, when applied, a whitish surface that will not change the colors of the fabric. Variations of this compound may be used with good result—thus, for instance, in the proportions of one part starch, three parts gelatine, and one-fourth of one part white lead, or flour-paste and gelatine in equal parts. After the veneering fabric has been applied I then employ a suitable roller or smoothing device on its surface until all superfluous adhesive mixture has been removed and the fabric presents a perfectly-smooth surface. After this becomes sufficiently dry the outer surface of the fabric is coated with one or more coats of the pre-

ferred composition last above mentioned, according to the texture of the fabric, to fill the pores thereof and until it is perfectly smooth and glossy. After this has become dry I first give it a coat of spirit varnish and then one or more coats of copal varnish or dammar varnish, or a mixture of both, or other suitable varnish.

I apply the spirit varnish first, for the reason that should any of the fabric present a surface above the composition last above applied it will prevent the varnish subsequently applied from spotting the fabric.

Having thus described my invention, I claim—

The herein-described process of veneering wood or other substances with a veneering of fabric, consisting in first sizing the substance to be veneered with a mixture of three parts glue and one part whiting well rubbed in after it has become dry, to obtain a smooth surface; secondly, coating said sized surface with an adhesive mixture consisting of three equal parts of flour-paste, starch, and gelatine and one-fourth of one part white lead, or variations of same, and then applying the fabric; thirdly, rolling or smoothing the surface of the fabric with a suitable roller or smoothing device to remove all superfluous adhesive matter and until the fabric presents a smooth surface; fourthly, coating the surface of the fabric with a mixture of three equal parts of flour-paste, starch, and gelatine, and one-fourth of one part white lead, or variations of the same, sufficient to fill the pores of the fabric and make it smooth and glossy; fifthly, when dry applying a coat of spirit varnish to prevent spotting, and, lastly, varnishing said surface with one or more coats of suitable varnish, such as copal, dammar, or a mixture of both.

In testimony whereof I have hereunto signed my name this 9th day of April, A. D. 1889.

GEORGE MULLER.

In presence of—

JOHN JOLLEY, Jr.,
CHAS. BUSH.