

# UNITED STATES PATENT OFFICE.

ALBERT C. KNIGHT, OF NEWARK, NEW JERSEY, ASSIGNOR TO GLEDHILL WALL PAPER CO., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

## PROCESS OF MAKING ILLUMINATED WALL-PAPERS AND THE LIKE.

No. 822,209.

Specification of Letters Patent.

Patented May 29, 1906.

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*To all whom it may concern:*

Be it known that I, ALBERT C. KNIGHT, a citizen of the United States, and a resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Processes of Making Illuminated Wall-Papers and the Like, of which the following is a specification.

My invention relates to a process of preparing illuminated wall-paper hangings, borders and ceilings, and has for its particular object to permit of the shading of the various designs and blending and raising the hues to the desired tints.

For this purpose my process consists, essentially, in printing the designs in the darkest or richest shades of colors and then blending and raising the hues to lighter tints by washing out the pigment through stencils and manipulating the colors to produce the desired results.

In carrying out my invention I prefer to take the unprinted paper which is to become the finished wall-paper and first treat it with a mixture of starch, water, and linseed-oil stained with the colors desired, forming thereon either a uniform or multicolored background, as may be desired, and then allow the paper to dry. Upon the paper thus prepared I print the desired designs in the darkest or richest shades of the colors wanted, adding, preferably, to the sized-pulp colors used for ordinary printing from three to ten per cent. of linseed-oil. The printed design is then allowed to thoroughly dry, after which a stencil conforming to the portion of the paper which it is desired to alter, as by blending of the colors and producing tints and high lights, is placed upon said paper so as to leave exposed the said portion. This portion is then worked by means of a moist sponge or other suitable means, such as a brush or cloth, the higher tints and higher lights being formed by washing out through said stencil and the various blends by rubbing together the colors one into the other until the desired effects are obtained. After the tinting and blending have been completed I prefer to print an outline of the design, so as to form a binding for the several parts of the pattern in such a manner that any imperfection caused by water running under the edge of the stencil or otherwise will be covered and the whole present a

smooth and finished appearance. I prefer to print this binding by means of the ordinary hand-block, or I may run the paper again through the usual printing-press.

To sum up, it will be seen that my process consists of the following steps: coating the unprinted paper with a mixture of starch, water, and linseed-oil stained with colors as desired, allowing this coating to dry, then printing upon the paper thus prepared the designs in the darkest or richest colors, to which three to ten per cent. of linseed-oil has been added, then when this is dry washing out and blending the various colors by rubbing with a moistened sponge through proper stencils, and, finally, printing an outline, binding the several parts of the pattern in such a manner that any imperfection caused by water running under the edge of the stencil or otherwise will be covered and the whole present a smooth and finished appearance.

Having thus described my process, what I claim as new, and desire to secure by Letters Patent, is—

1. The herein-described process for producing illuminated wall-paper hangings and the like, consisting in printing upon the paper the desired designs in the darkest and richest colors desired and then producing the high lights and various blends by washing out and rubbing together the colors through suitable stencils.

2. The herein-described process for producing illuminated wall-paper hangings and the like, consisting in printing upon said paper a suitable background; then printing upon this background the designs in the darkest and richest colors desired; and finally producing the high lights and various blends by washing out and rubbing together the colors through suitable stencils.

3. The herein-described process for producing illuminated wall-paper hangings and the like, consisting in printing upon said paper a suitable background; then printing upon this background the designs in the darkest and richest colors desired, producing the high lights and various blends by washing out and rubbing together the colors through suitable stencils; and finally printing an outline binding the designs.

4. The herein-described process for producing illuminated wall-paper hangings and the like, consisting in coating the unprinted

paper with a mixture of starch, water and  
linseed-oil stained with the colors desired and  
allowing this coating to dry forming a back-  
ground; then printing upon the paper thus  
5 prepared the desired designs in the darkest  
and richest shades of color desired using the  
sized-pulp colors as for ordinary printing and  
to which linseed-oil has been added; produc-  
ing the high lights and various blends by  
10 washing out and rubbing together the colors

through suitable stencils; and finally print-  
ing an outline binding the designs.

Signed at borough of Manhattan, city of  
New York, in the county of New York and  
State of New York, this 20th day of Septem-  
ber, A. D. 1905.

ALBERT C. KNIGHT.

Witnesses:

KNEELAND MOORE,  
L. WILLINSKY.