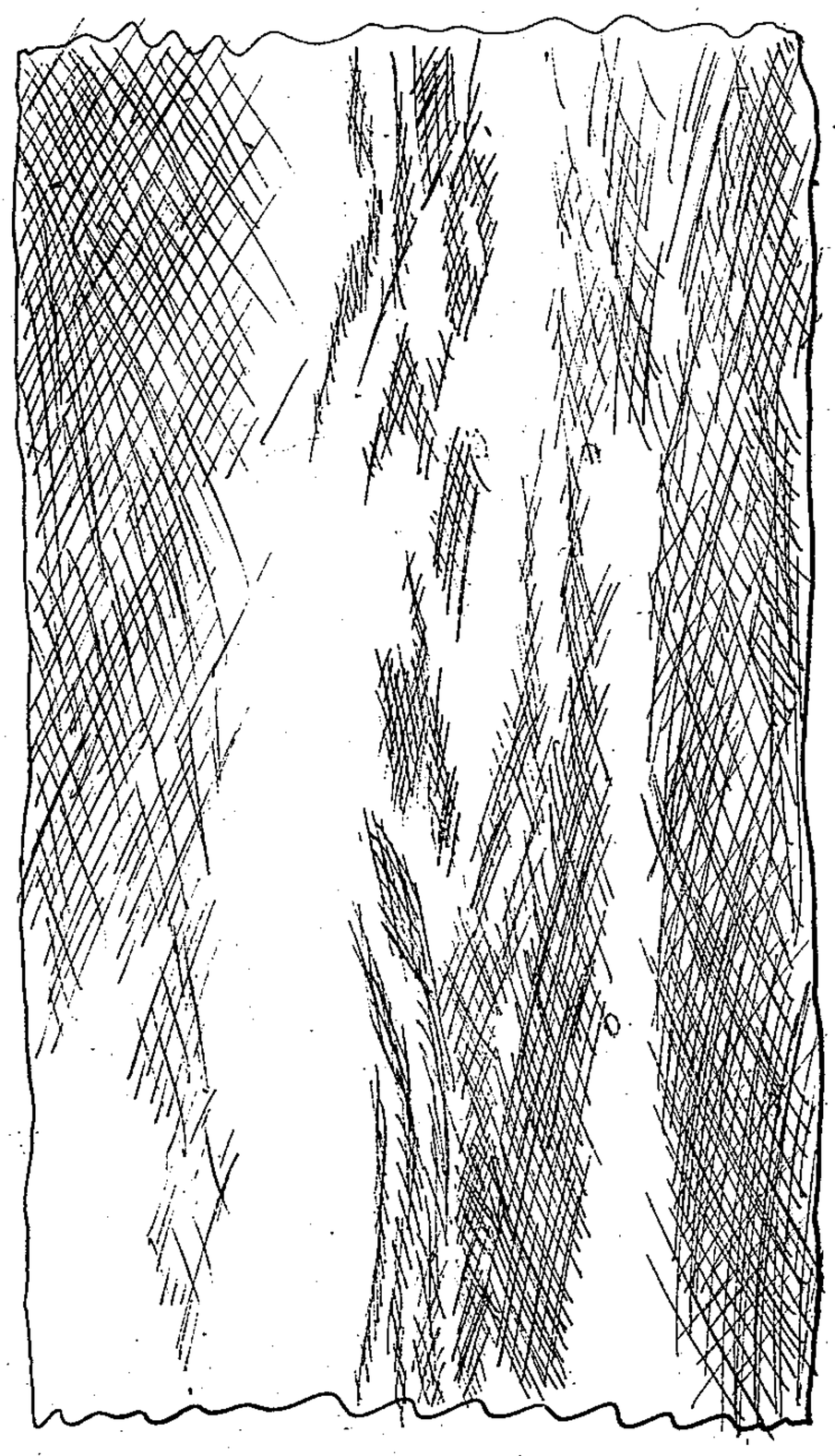
J. Bongardt

Graining Process.

No. 84,728. Patented Dec. 8, 1868.



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UNITED STATES PATENT OFFICE.

JOHANN BONGARDT, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND L. H. COHN, OF SAME PLACE.

PROCESS AND COMPOSITION FOR PRINTING THE GRAIN OF WOOD.

Specification forming part of Letters Patent No. **84,728**, dated December 8, 1868.

To all whom it may concern:

Be it known that I, JOHANN BONGARDT, of the city, county, and State of New York, have invented a new and Improved Method of Imprinting the Grain of Wood on Paper or other Substance; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

The drawing represents a face view of a piece of paper provided with a wood-grain print.

This invention relates to a new process for producing on paper and other material a beautiful imitation of the various grained woods; and consists in so treating the planed surface of a piece of grained wood that it can itself be used as block for copying its grain with great accuracy upon the paper. In this manner the most exquisite imitation-wood paper-hangings, and even imitation veneers, can be produced at a trifling expense.

The block to be used for printing is first planed and smoothed on the printing-surface. A composition consisting of the following ingredients, in variable proportions, is now applied to the surface of the block: Linseed-oil, brown japan, litharge, white soap, and water.

This composition acts as an etch or corrosive, to soften the soft parts of the wood, to make them spongy, while it will not be so apt to affect the hard parts of the wood.

With the composition is mixed the coloring-matter, all of which, with the composition, is soaked into the wood.

The wood is now pressed in a suitable machinery, and in this compressed state is made to print upon the paper or other material.

The hard parts of the wood, which did not retain the coloring-matter, do not print at all, while the softest parts, which contain most color, make the darkest impressions. Those parts not very soft, and not quite hard, make lighter shades, and thus a perfectly true image of the grain will be printed upon the paper.

The composition is varied with the wood, as some ingredients, or their greater or less quantity, will have a different effect on different kinds of wood.

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

1. The method herein described of preparing wood to cause it to print its veneer or grain on paper or other material, as set forth.

2. The composition herein described for treating wood, for the purpose set forth.

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Witnesses:

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