

United States Patent Office.

WILLIAM KOPP AND WILLIAM WRAMPELMEIER, OF LOUISVILLE,
KENTUCKY.

Letters Patent No. 90,854, dated June 1, 1869.

IMPROVED MODE OF TREATING WOOD TO RESEMBLE CARVED WORK.

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

To all whom it may concern:

Be it known that we, WILLIAM KOPP and WILLIAM WRAMPELMEIER, both of Louisville, in the county of Jefferson, and State of Kentucky, have invented a new and useful Improvement in Pressing Wood into Certain Shapes to Resemble Carved Work; and we do hereby declare the following to be a full and correct description of the same, sufficient to enable others skilled in the art to which our invention appertains, to fully understand and use the same.

The nature of our invention consists in certain compositions, which serve as glue, and as filling for the reverse side of the pressed wood, and in the method of applying these compositions when pressing wood into certain shapes to resemble carvings.

We can, by our improvement, press "carvings" of any size and shape by one single operation, so that, when the pressed "carving" is taken from under the press, it is complete, and ready to be used at once.

We first take a sheet of good, common, strong paper, such as writing-paper, and spread on it a glue composed of five parts of cottage cheese, called, in the German language, "*schmierkaese*," and as such known in this country, and one part of lime, which we thoroughly mix. On this glue we place another composition, consisting of six parts of sawdust, one part of the glue described, and one part of flour, well mixed. Of this second composition, we place sufficient on the glued paper to about fill the reverse side of the pressed wood. A little practice very soon enables the workman to determine the precise quantity, which, of course, varies with size of the "carving" to be pressed.

On this composition is then placed the piece of wood to be pressed. This wood ought not to be thicker than one-eighth of an inch, or about the thickness of common veneering, though a small excess of that size does not make a material difference; and we prepare it, to soften it, in any well-known manner. The proper die, having cutting-edges, is then placed upon the wood, and the whole placed under a suitable press.

To prevent the edges of the die from being dulled

by contact with the counter-plate or bed of the die, we place a piece of pasteboard on the same, on which the paper bearing the composition, wood, and die, rests.

Both the counter-plate and the die are heated, so that, when the pressure is exerted on the matter between them, and while the die is shaping and cutting the wood, to assume the shape of the "carving," their heat hardens the composition, which, by the pressure, fills the reverse side of the wood, and dries the glue of the paper, securing the latter to the carving, with which it is cut by the edges of the die, the glue, filling-composition, and "carving," thus forming one hard mass.

Thus, by the one operation of pressing, which can be done within one minute, the "carving" is produced complete.

To prevent the die from "sticking" to the "carving," we will oil the die, which, at the same time, gives a shining surface to the "carving."

We have discovered that our glue and our filling-composition are insoluble by either dampness or heat, when applied as described, and they are, consequently, especially adapted to the manufacture.

Having thus described our invention,

What we claim, and desire to secure by Letters Patent, is—

1. The glue-composition, when consisting of the ingredients mentioned, and applied in the manner and for the purpose specified.
2. The filling-composition, when consisting of the ingredients mentioned, and applied in the manner and for the purpose set forth.
3. The combination, in the method of pressing wood into shapes to resemble carvings, &c., of the glue and filling-compositions, when applied as and for the purpose described.

WM. KOPP.
WM. WRAMPELMEIER.

Witnesses:

WM. STEILBERG,
J. H. WRAMPELMEIER.