

W. H. Knight,

Veneer Cutter,

No. 104,858.

Patented June 28, 1870.

FIG. 1.

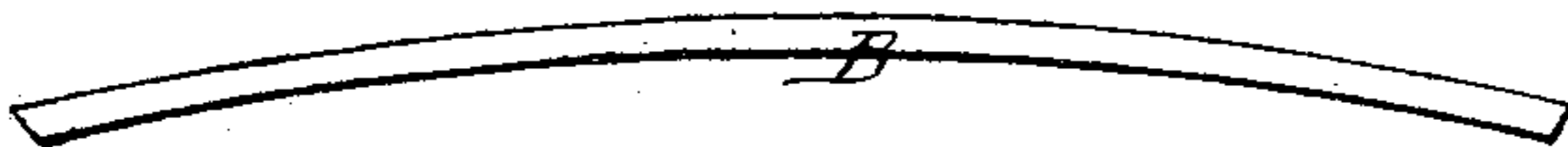
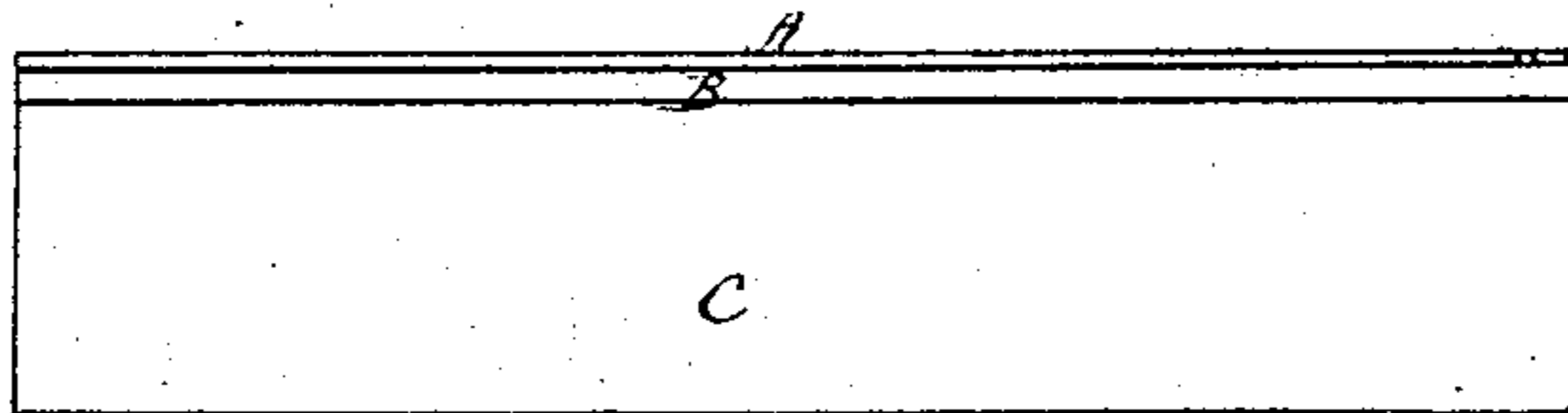


FIG. 2.



FIG. 3.



Witnesses.
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WILLIAM H. KNIGHT, OF BOSTON HIGHLANDS, MASSACHUSETTS.

Letters Patent No. 104,858, dated June 28, 1870.

IMPROVEMENT IN SECURING VENEERS TO WOOD.

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

To all persons to whom these presents shall come:

Be it known that I, WILLIAM H. KNIGHT, of Boston Highlands, in the county of Suffolk and State of Massachusetts, have invented a new and useful Mode of Applying and Securing Veneers to Surfaces; and that the following description, taken in connection with the accompanying drawing hereinafter referred to, forms a full and complete specification of the same.

The present invention consists in applying and securing veneers to surfaces of wood, &c., by expanding the wood or material that is to receive a veneer, in combination with contracting the veneer, so that, when the two are placed together, and secured by glue or other suitable adhesive material, and dried by the then contraction of the previously-expanded wood or base, the grain or fibers of the veneer are brought most closely together, and the pores thereof tightened, preventing "checking," so termed, that is, the cracking or breaking away of the veneer when in use.

It also consists, in combination with the above, in veneering the cases or bodies of piano-fortes, more particularly by first applying and securing the veneer to a comparatively thin piece of board along its length, and in then applying such combined strip to the body or case, in the ordinary manner now practiced of securing a veneer direct.

In the accompanying drawing this invention is illustrated.

Figure 1 is an edge view of a veneer-receiving wood.

Figure 2, a section of a veneer and a wood-base, the one secured to the other.

Figure 3, an edge view of the veneer and wood-base, shown in fig. 2, applied and secured to a block of wood, with the said wood-base in contact.

A, in the drawing, represents a veneer;

B, a wood-base, to which said veneer is applied and secured; and

C, a block to which the combined veneer A and wood-base B are secured, with the wood-base B in contact therewith.

In carrying out this invention, I expand the wood B, which is to receive the veneer A, by subjecting the same to moist steam, or to moisture in any form, and then, having dried the veneer A by applying heat

thereto of 125° Fahrenheit, more or less, in any suitable manner, by placing it in a heated chamber, or by arranging it to be acted upon by heat from a suitable heating apparatus, the two are placed together, the veneer on the wood, with glue or other suitable adhesive material between, and thus held in close contact by clamps, or under a press or otherwise, until the glue has become sufficiently dry to hold the veneer to the wood. The combined block or piece is then removed and allowed to dry to any extent further desired.

By thus expanding wood previous to receiving a veneer, which has been to a greater or lesser extent dried and contracted in the drying of the two after being glued together, the fibers or grain of the veneer are of a necessity drawn tightly and closely together because of the greater contraction of the wood to which said veneer is applied, thereby, as is obvious, preventing the tendency of the veneer to "check" in its after exposure to the atmosphere by use.

In veneering piano-forte cases, the wood composing which cannot be expanded without detriment to the cases, the veneers are applied by first applying and securing them to a comparatively thin piece of wood, and then the combined strip attached to the case, in the ordinary manner of gluing a veneer direct.

Having thus described my invention, I shall state my claim as follows:

What I claim is—

1. The mode herein described of applying and securing veneers, the same consisting in expanding the wood to receive the veneer, in combination with contracting the veneer, substantially as described, for the purpose specified.

2. In veneering piano-forte cases, &c., applying and securing the veneer first to a comparatively thin piece of wood, substantially as described, and then applying and securing such combined strip to the case.

The above specification of my invention signed by me this 25th day of November, A. D. 1869.

WM. H. KNIGHT.

Witnesses:

ALBERT W. BROWN,
EDWIN W. BROWN.