

(No Model.)

E. O. ROENIGK.
VENEER WORK.

No. 536,841.

Patented Apr. 2, 1895.

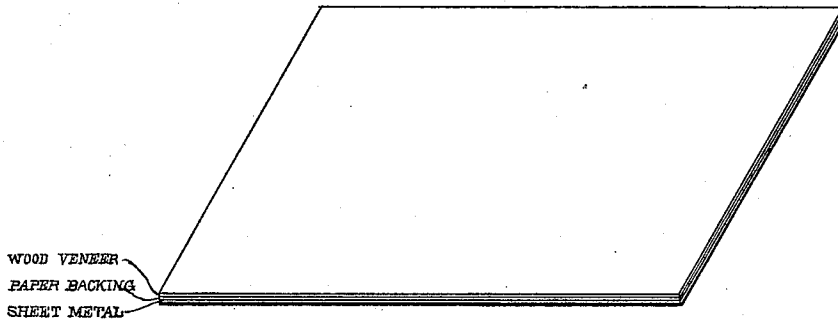


Fig. 1

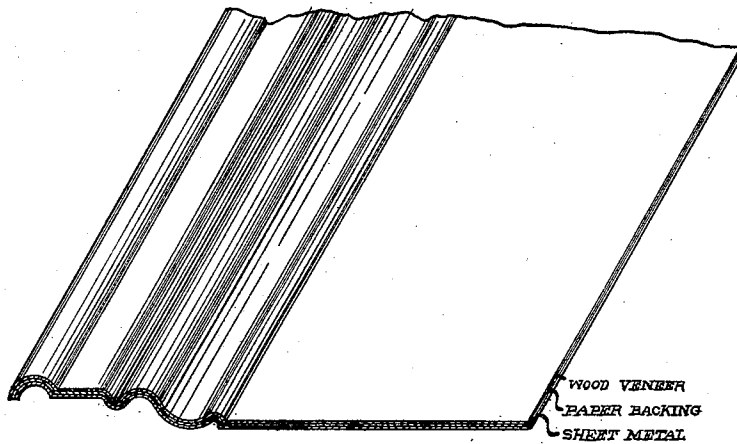


Fig. 2

Witnesses

Lindsey de B. Little
Robert C. Totten

Inventor

Edwin O. Roenigk
By Kay & Totten

Attorneys

UNITED STATES PATENT OFFICE.

EDWIN O. ROENIGK, OF PITTSBURG, PENNSYLVANIA.

VENEER-WORK.

SPECIFICATION forming part of Letters Patent No. 536,841, dated April 2, 1895.

Application filed December 10, 1894. Serial No. 531,413. (No specimens.)

To all whom it may concern:

Be it known that I, EDWIN O. ROENIGK, a resident of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Veneer-Work; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to veneer work.

The object of my invention is to form veneer work in which the thin wood veneer is properly supported by material which can be readily subjected to impressions in the way of ornamentation and designs and which is not influenced by moisture or changes of temperature which would result in the warping or cracking of the veneer, and to provide proper means for permanently supporting the thin wood veneer during the process of forming the finished veneer work and securing the same permanently to the support.

To these ends my invention consists, generally stated, in the combination of a thin wood veneer, a thin paper backing secured to and supporting the same, and a metal sheet to which the paper backing is secured. It also comprises the method of forming such veneer work consisting in cleaning the metal sheet, subjecting the thin wood veneer when secured to a thin paper backing to a bath composed of glycerine and water and applying adhesive material to the paper backing and securing the same to the sheet metal by pressure.

To enable others skilled in the art to make and use my invention, I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is a section of a flat sheet of veneer work, and Fig. 2 is a section of an irregular or stamped sheet embodying the same.

In practicing my invention I take a piece of sheet iron, zinc, or other suitable metal and thoroughly wash the surface to be veneered with a suitable acid solution, such as a solution of oxalic acid and water. In this way the surface is cleaned and all grease or foreign substance removed, leaving the sheet ready to receive the veneer. The veneer which is employed is a thin wood veneer of any suitable class of wood, such veneer being cut so that many sheets are obtained from an inch thickness of wood and such sheets

being secured to a thin paper backing. This thin paper backing supports the sheet and holds it from breaking when handled and gives increased strength to the veneer. To secure such veneer to the supporting metal sheet it is first soaked in a suitable bath composed of glycerine and water in proper proportions, a suitable bath for such purpose being composed of seven parts water and one of glycerine. In this bath the veneer is placed while supported by the paper backing and when soaked in the bath it is rendered sufficiently pliable to enable it to conform to any ordinary pattern on the sheet metal. The veneer sheet and the paper sheet are both rendered pliable in this way while the paper sheet supports the veneer sheet as it is handled and holds it as it is compressed upon the metal sheet whether it be of a plain surface or an ornamented surface, the paper sheet in the latter case supporting and sustaining the thin wood veneer when it is caused under the pressure of the dies to conform itself to the irregular shape of the metal sheet. After the veneer when supported on the paper backing is sufficiently soaked I apply to back of the same, a suitable paste such as the that composed of flour and water, applying the paste to the exposed face of the paper backing, and then the combined veneer and paper sheet is pressed on the surface of the metal sheet which pressure may be applied by rubbing the veneer, or it may be applied through rolls and caused to adhere. Where irregular or ornamented veneer work is formed, the metal sheet is cleaned in the same way and the veneer supported on the same backing prepared in the same way and the metal sheet may either be first stamped and the veneer placed over the same and forced down by the dies, or the plain metal sheet may be placed under the die, the veneer sheet with the adhesive material thereon being placed over the same or being previously pasted thereto, and the two subjected to the die pressure. In case I desire to apply two sheets of the veneer, the second sheet of the wood veneer having the grain crossing that of the first sheet, I prefer to remove the paper backing from this outer surface before securing it to the inner sheet. The natural wood surface is then cleaned with a solution

of the oxalic acid and water and finished in the usual way by filling and varnishing, or in any other desired way.

5 In the accompanying drawings sections of the veneer work are shown and the wood veneer is marked "Veneer," the paper backing is marked "Paper" and the metal sheet is marked "Sheet metal."

10 What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of a wood veneer, a thin paper backing secured to and supporting the same, and a metal sheet to which the paper backing is secured, substantially as set forth.

15 2. The method of forming wood veneer, consisting in cleaning a metal sheet, subjecting a wood veneer when secured to a thin paper

backing to a bath composed of glycerine and water, applying the adhesive material to the paper backing and compressing the veneer to the metal sheet, substantially as set forth. 20

3. The method of forming wood veneer, consisting in cleaning a metal sheet, subjecting a wood veneer when secured to a thin paper backing to a bath composed of glycerine and water, applying the adhesive material to the paper backing and then stamping the combined veneer work to the shape desired. 25

In testimony whereof I, the said EDWIN O. ROENIGK, have hereunto set my hand.

EDWIN O. ROENIGK.

Witnesses:

ROBERT C. TOTTEN,
LINDSAY DE B. LITTLE.