

H. J. MILLER.
VENEERING TAPE.
APPLICATION FILED AUG. 19, 1918.

1,322,257.

Patented Nov. 18, 1919.

Fig. 1.

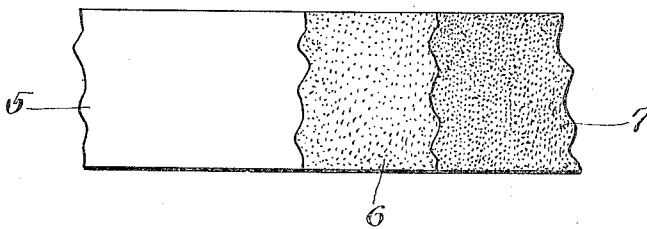


Fig. 2.

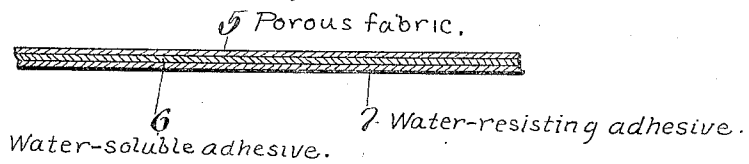
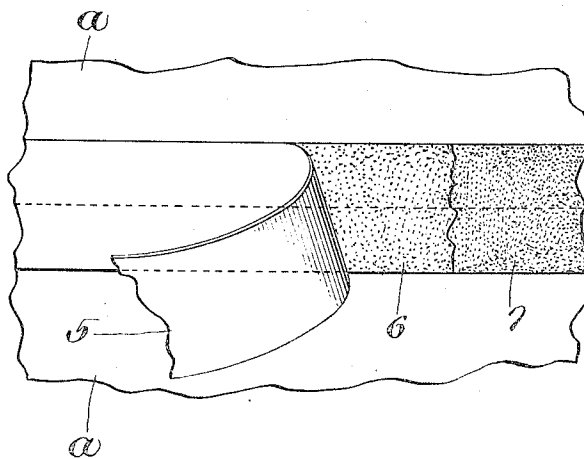


Fig. 3.



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UNITED STATES PATENT OFFICE.

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VENEERING-TAPE.

1,322,257.

Specification of Letters Patent.

Patented Nov. 18, 1919.

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To all whom it may concern:

Be it known that I, HENRY J. MILLER, a citizen of the United States, residing at Boston, county of Suffolk, and State of Massachusetts, have invented a new and Improved Veneering-Tape, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

This invention has reference to an improved tape, strip or material adapted for use in temporarily securing together substantially abutting edges of veneer whereby the application of said veneer to the usual backing or base is facilitated.

One object of the present invention is to provide a veneer tape, strip or material of considerable strength to afford the desired stability to the edges of the veneer to which said material is applied, and secured by adhesive, that said tape or material ultimately may be removed without abrasion and hence without danger of damage to the surface of the veneer.

A further object of the invention is to provide a veneer tape, strip or material having adhesive that after said tape or material has been affixed by its adhesive to veneer the removal of the tape or material from said adhesive may be facilitated by treating the same to diminish the strength of the bond between said adhesive and the tape or backing material.

Other objects of the invention will appear from the following description.

The invention consists in a veneer tape, strip or material comprising a backing of comparatively strong paper or other fabric and an adhesive united to said backing by a bond layer of material inherently weaker than said adhesive, in relation to its adhesion to paper, whereby through the moistening of said backing it may be drawn or stripped from said adhesive without unduly softening said adhesive.

The invention also contemplates the use of a bond layer between said backing and said adhesive which bond layer is of a nature that, under suitable treatment, it may facilitate the removal of the adhesive.

The invention also consists in such other novel features of construction and combi-

nation of parts as shall hereinafter be more fully described and pointed out in the claims.

Figure 1, represents a plan view of a piece of the improved veneer tape, strip or material portions of the adhesive and the bond layer being broken away.

Fig. 2, represents an edge view of the same.

Fig. 3, represents a perspective view showing the tape as uniting the edge portions of two adjacent pieces of veneer, the backing being partially stripped from the bond layer.

Referring to the drawings in which similar characters of reference designate corresponding parts throughout, 5 indicates a backing strip of comparatively strong paper or fabric, adapted when applied and affixed to two abutting pieces *a, a* of veneer to constitute a substantial union thereof. If said backing 5 is of paper I prefer to utilize paper having little or no size or adapted from the comparative looseness of its fibrous structure readily to permit the passage of moisture through said backing or to facilitate the absorption of moisture by its fibers.

To one surface of this backing 5 I apply the bond or intermediate layer 6 which may comprise a starch or starchy material being sufficiently adhesive to adhere to the surface of said backing 5 and effects the sizing of said surface. To this intermediate or bond layer 6 I apply the coating or film of waterproof or melting adhesive 7 of any ordinary nature preferably adapted to be rendered tacky or adhesive by the application of heat.

The purpose of having the adhesive 7 of a waterproof or water resisting nature is to prevent the weakening of said adhesive by the action of moisture applied or absorbed by the material or tape backing 5. The invention however also contemplates the use of a bond layer 6 of such water resisting nature that the adhesive 7 of any kind is protected from water taken up by said backing 5.

The primary purpose of the bond layer 6 is to temporarily hold the backing 5 and the adhesive 7 but, in some cases, where it is intended ultimately to remove the ad-

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hesive 7 from the work by abrasion, said bond layer 6 may contain particles of grit or abrasive matter.

This improved tape or material may be applied to veneer in the usual manner that is, for instance, the edges of the veneer a, a are brought together as shown in Fig. 3 of the drawings and the adhesive surface is placed against the surface of the veneer bridging the line of the edges of said veneer and heat is applied in any known manner to the backing 5 to soften the adhesive 7 and to render the same tacky and adherent to said veneer.

While I have obtained good results in removing the backing 5 by abrasion or stripping I have in mind as part of the present invention the treatment of bond layer 6 to weaken it or to diminish its tenacity. The preferred method of this treatment is through the application of moisture to the backing 5 the porosity of which is such that the moisture readily penetrates the same and acts on some of the material of bond layer 6 causing such material to soften and to swell sufficiently to render it quite pulpy without affecting the adhesive 7. After the bond layer 6 has been thus treated the backing 5 and said layer 6 may readily be stripped from the adhesive 7 and said adhesive, in due course, may also be removed.

In carrying this invention into practice I have made use of backings 5 of various fabrics and I have used to good advantage bond layers 6 of gum tragacanth and other gums and where it has been desirable to render said bond layer impervious I have used the starch with wax, emulsion, borax and china clay.

As stated above the adhesive 7 may be of any known kind but preferably is of a waterproof or water resisting nature. In

this latter case I have found desirable an adhesive made from suitable proportions of refined asphalt, mineral oil and gutta percha, rubber, balata or other elastic material.

By the use of this improved veneer strip the removal of the paper backing by the use of sand paper or other abrasive material or devices is unnecessary and damage to the veneer by such material or devices is avoided.

In the building up of a structure of superposed veneers (joined together at their edges by the adhesive 7 as above described) it is not always necessary or desirable to remove said adhesive. In some cases however the veneers secured together by the improved tape, are then secured to some kind of base, in the usual manner, with the surface of said veneers having said tapes outermost. In this case the backing 5 is first moistened and removed, as above described, and finally the adhesive 7 is removed. If it is desired to remove said adhesive by abrasion the presence of the grit or abrasive material in the bond 6 or in proximity to the adhesive will facilitate the abrasion of said adhesive.

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

1. A veneering tape or strip comprising a backing of water absorbent material, a bond layer normally adhering to said backing and containing abrasive matter, and adhesive carried by said bond layer.

2. A veneering tape or strip comprising a backing of unsized paper, a bond layer adapted to be weakened as to adhesion by water supplied through said paper, and a coating of water resisting adhesive on said bond layer, said adhesive adapted to be rendered tacky by heat.

HENRY J. MILLER.