March 7, 1933. F. A. EDGHILL 1,900,048

DECALCOMANIA TRANSFER

Filed Jan. 7, 1932

Fig. 1.

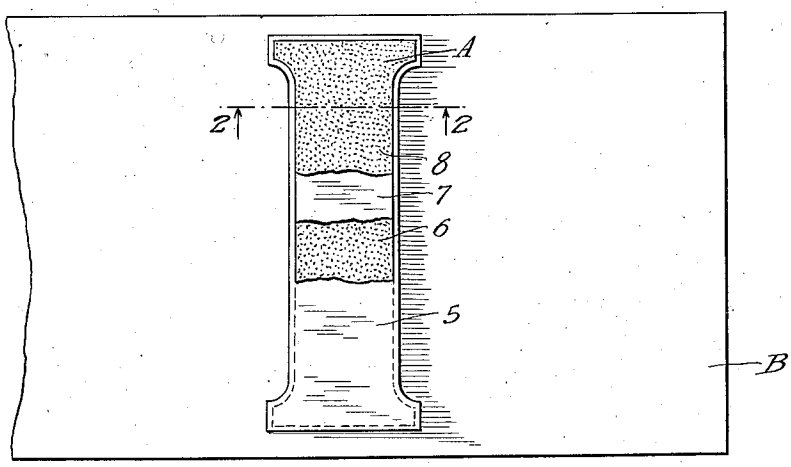


Fig. 2.

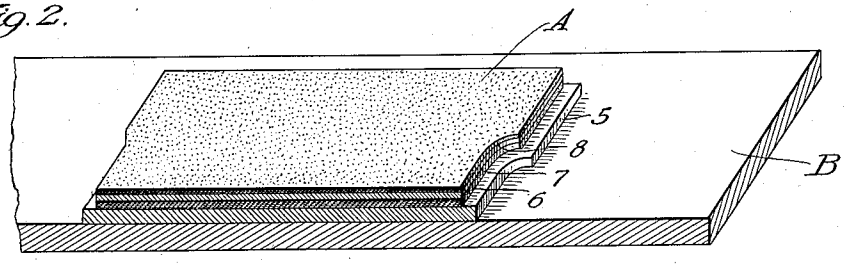


Fig. 3.

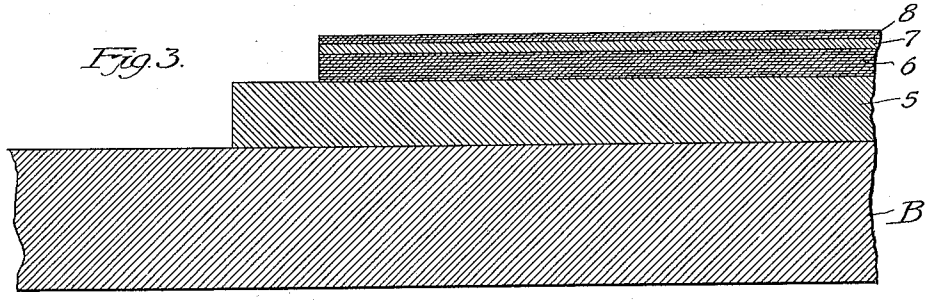
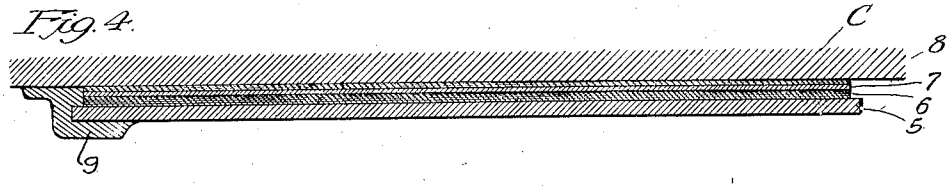


Fig. 4.



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UNITED STATES PATENT OFFICE

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DECALCOMANIA TRANSFER

Application filed January 7, 1932. Serial No. 585,207.

This invention relates to a decalcomania transfer having an improved construction which permits of an easier and more enduring application to the surface whereon it is to be affixed.

After application to a base, the edges of a decalcomania character are particularly in need of protection. In the past it has been common to use a cheap grade of varnish, known as lithographing varnish, which is applied over the entire face of the character in the effort to provide some protection against the effects of weather. Such a varnish has practically no thickness at all, in consequence of which its ability to protect is almost nil. Furthermore, after a character is transferred, its face must needs be washed off with water and a solvent to remove surplus varnish and/or the transfer cement. Later, it is usual to reapply varnish by a hand brush or pencil to the face of the character and around its edges so as to give it protection against the weather as far as is possible.

Transfers of this kind, when freshly made, cannot be used because the solvent will destroy the face of the character. This is due to the insufficiency of the varnish coating as a protection to the inks and color mediums on the character. Also the edges of such a character are apt to be made ragged in consequence of applying the solvent. It is because of these inherent difficulties in the use of decalcomania transfers that their employment has been attended with dissatisfaction and difficulties in many cases.

By the improvements of this invention I aim to provide a decalcomania transfer which can be applied with little or no danger, which will present a finish of greater luster and brilliance, which will be better protected against the effects of weather, which will eliminate certain of the operations which have been commonly required up to the present, and which will permit of succeeding coats of a weather protecting lacquer, from time to time, without damage to the face of the character.

These and other objects, as will hereinafter appear, are attained by my invention of which a suggestive embodiment is set out in the accompanying drawing in the manner following:

Figure 1 is a view in plan of a decalcomania transfer showing a single character having portions of its face broken away to exhibit the construction thereof;

Fig. 2 is an enlarged perspective view in section on line 2—2 of Fig. 1;

Fig. 3 is a highly magnified transverse sectional view of a portion of a transfer character; and

Fig. 4 which is an enlarged sectional view shows the character after being transferred to a base.

The present transfer characters A are built upon a vehicle B of decalcomania paper. First a stencil having desirably a silk screen with outline the same as an tended character is placed upon or over such a paper, and through this screen is pushed a cellulose base lacquer which is thereupon allowed to become dry to form a coating 5. The stencil is preliminarily cut a little larger than the character so that the resulting lacquer coating will extend slightly beyond the edges of the printing 6 which is next applied thereto. The printing being placed upon the lacquer coating, a backing 7 of very thin aluminum leaf is next applied over the printing; and over this leaf backing a further printing 8 of colors is finally applied to protect the leaf. The transfer of the character to the base C on which it is to be applied is accomplished in the usual way by putting on a thin even coat of transfer cement to its rear side, then, when nearly dry, wetting the surface onto which the transfer is to be applied, positioning the transfer against the surface, pealing off the vehicle paper, and then wetting with water.

In practice the lacquer coating upon which the character is built, is of substantial thickness—perhaps .002″. Being a cellulose derivative, it is impervious to weather, may be perfectly clear, and provides a lustrous or glossy finish that is attractive to the view. In addition, the edges of this protective coating which project beyond the remainder of the character, prevent injury thereto and

disintegrate thereof resulting from contact of objects or the elements with the character edges which otherwise would be fully exposed.

A decalcomania transfer produced according to my invention is applicable without damage to a base even when freshly made. No treatment by a solvent or other preparation is required after application.

If desired, one or more lacquer coatings 9 may be subsequently spread over the characters as well as the base on which they are affixed, with no damage or injury to the transfers because of the affinity which the orignal lacquer coating possesses for such successive coatings. In all the respects noted, as well as others, the present decalcomania transfer is advantageous over others heretofore employed and protection therefor is accordingly desired in accordance with the claims following.

I claim:

1. In a decalcomania transfer, the combination of a vehicle on which is releasably carried a cellulose base lacquer coating supporting successive applications of printing having a thin aluminum leaf backing over which is laid a protective ink coating, the lacquer coating extending slightly beyound the edges of remaining transfer components for protection thereof.

2. In a decalcomania transfer, the combination of a vehicle on which is releasably carried a cellulose base lacquer coating supporting successive applications of printing having a thin aluminum leaf backing over which is laid an ink coating, the lacquer coating being clear and of substantial thickness so as to afford to the transfer protection against elements of weather while exposing to view the associated printing.

3. A base to which decalcomania transfers have been applied upon release from their respective vehicles, each transfer having a constituent coating of cellulose base lacquer of substantial thickness extending slightly beyound the edges of the remaining transfer components, and a further coating of cellulose base lacquer applied over the base and transfers and uniting with the lacquer coatings on the transfers to produce a clear protective coating which extends around, along and partly under the edges of each of the transfers.

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