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ORNAMENTATION OF HARD SURFACE COVERING MATERIALS

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Fig. 1.

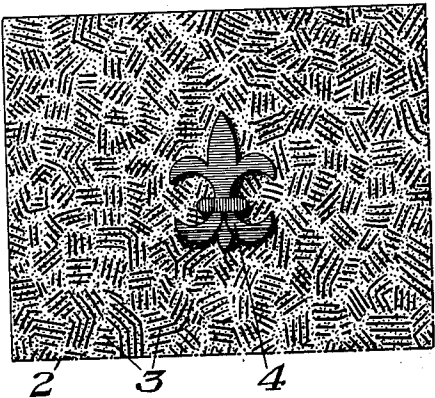


Fig. 2.

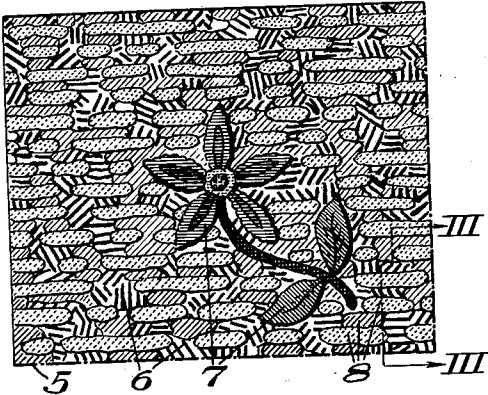


Fig. 4.

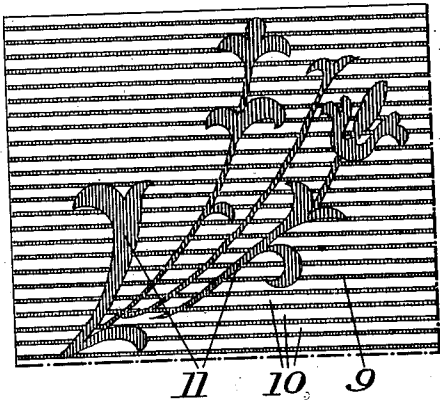
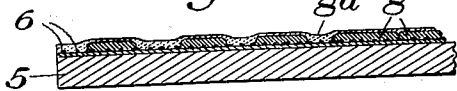


Fig. 3.



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ORNAMENTATION OF HARD SURFACE COVERING MATERIALS

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This invention relates to surface ornamentation, and more particularly to the decoration of hard surface covering materials, such as linoleum, felt base coverings, oil cloth and the like.

Heretofore covering materials have generally been decorated with an all-over pattern executed in oil paints and usually printed. In rugs, for instance, the pattern usually consists of flowers or medallions with a field or background printed in flat oil paints.

According to the present invention, I provide an ornamentation wherein there is a background for the oil colors or other applied decoration, which is in marked contrast with the oil colors or other applied decoration, and which relieves the flat appearance common to the surfaces printed in flat oil colors, producing a texture effect which may simulate the weave of woven fabrics.

The invention may be readily understood by reference to the accompanying drawing, in which

Figure 1 represents more or less diagrammatically a piece of surface covering material made in accordance with the present invention;

Figure 2 is a similar view of another type of decoration embodying my invention;

Figure 3 represents a transverse section on a somewhat enlarged scale through a piece of goods embodying my invention; and

Figure 4 is a view similar to Figure 2 wherein still another type of decoration is employed.

According to my invention, the entire surface of the goods is first given a decorative base coating of the desired color. This is ordinarily a flat color. After the base coating has become dry, the entire area of the goods is printed over with fine lines, or dots, similar to a Benday tint or color. This Benday tint is applied in ink, or a paint having a very light body, so that the lines or dots or other texture effect lie flat and smooth on the

base coat. The Benday tint may be executed in a color which offers little contrast to the base coat of the material, or it may be in marked contrast to the base coat. Particularly effective results are secured where the fine lines or Benday tint is printed with a metallic paint, such as an aluminum or bronze paint.

In Figure 1, 2 designates a piece of covering material having an all-over decorative base coating. Applied all over the area of the surface 2 are fine lines 3 similar to a Benday tint and which may be more or less haphazardly arranged, or which may be arranged with more or less regularity to suggest the texture of a woven fabric. The fine lines 3, being printed in ink or in a coating material having a very light body, lie flat on the base coating of the goods.

After the area of the goods has been decorated in this manner, a suitable pattern is applied thereover in such colors as may be desired. Preferably the pattern is a printed pattern, and is preferably executed with oil paints, such as those commonly applied to surface coverings in block printing machines. However, the pattern may be formed in other ways, as by air brushing. As compared with the light lines of the Benday tint, the pattern, which is designated 4 in Figure 1, is thick and heavy. It is opaque and obliterates the Benday tint which it overlies. Being relatively thick, it stands out in relief over the Benday tint which forms a background producing a contrast which is novel and highly decorative. By reason of the fact that the pattern 4 stands in relief above the base, the smooth surface of the goods is broken up.

In the arrangement shown in Figure 2, the goods 5 has an all-over decorative base coating of one color over which is printed a fine pattern to produce the Benday effect. This pattern is illustrated as being comprised of fine lines 6. A printed pattern 7 is applied over a portion of the goods in oil colors, and

in addition to this, a background 8 is printed in in oil colors. The background 8 is not continuous, however, providing openings or spaces through which the Benday tint is revealed. In this case also the printed pattern of the design and the field 8 stand in relief above the area showing the Benday tint, and the light reflecting qualities of the patterns 7 and 8 are in contrast to the light reflecting qualities of the Benday tints.

After the goods has been decorated, a surface coating of clear lacquer or varnish is applied to the goods. By reason of the fact that the printed patterns 7 and 8 actually stand in relief above the base, the clear varnish will collect in the open spaces where the Benday tint is exposed, and a thicker coating of transparent lacquer or varnish will be applied to these portions than is applied over the patterns 7 and 8. This is best shown in Figure 3 where the transparent wear resistant coating is designated 8a.

The body of the Benday tint 6 is so light that it is not highly resistant to wear, but it is protected by the heavier overlay of clear varnish or lacquer. It is also protected from wear by reason of the fact that the patterns 6 and 7 stand in relief. The patches of the base decoration which are exposed are relatively small, and the wear for the most part is taken up by the overlaid patterns 7 and 8.

Even after the coating of clear varnish or lacquer has been applied, the patterns 7 and 8 stand out in relief. By reason of the fact that the Benday tint or texture background is printed from an ink or coating material having little body, the heavy oil pattern which is overlaid thereon will lay smooth. If the fine lines of the base or texture decoration were of the usual body, the patterns 7 and 8 in Figure 2 and the pattern 4 in Figure 1 would not lie smooth, but would be ribbed or uneven. Also, if the texture printing had any considerable body, the printed pattern would not stand out in relief above the background.

By printing the textured background or Benday tint over the entire surface of the goods, the overlaid decoration will stand out above the textured background, and no problem of effecting registration between the background and the overlay during the process of printing is encountered.

In Figure 4 there is disclosed another type of Benday decoration for use over the surface of the goods wherein the piece of goods has an all-over base color 9 with closely spaced parallel lines 10 in a contrasting color thereacross. The lines are interrupted or broken away to produce a design 11. The oil patterns or other decorative patterns and the wear resisting coating of transparent lacquer or varnish can be applied over the surface of the material shown in Figure 4 as in Figures 1 and 2.

In my copending application, Serial No.

177,261, I have shown a method of decorating surface covering materials wherein certain areas only of the goods are printed in Benday textures and the applied pattern is not overlaid on the textured background. The method disclosed in the said application therefore introduces the problem of registration in the operation of printing.

It will be understood that the drawing is merely illustrative of the invention and that the invention is capable of a wide range of modifications in the decorative effects which may be produced. The various patterns can be produced by other methods and lacquer paints can be used in place of oil paints.

Where the nature of the goods permits, the Benday tint or texture printing may be applied directly to the goods without the application of a decorative base coat. For instance in some linoleums the color of the linoleum forms a sufficiently decorative background for the application of the texture printing directly thereto without requiring the application of a base coat.

I claim:

1. As a new article of manufacture, an ornamental surface covering material having an all-over pattern similar to a Benday tint applied thereto in a coating material having a light body, and a second pattern applied over a portion only of the first and formed of a coating material of heavy body, whereby said second pattern stands in relief above the first, and a transparent wear-resistant coating over the entire surface of the goods, said coating being thicker over those portions of the goods not covered by the second pattern.

2. A new article of manufacture comprising a surface covering material presenting a base color having an overlying texture-like pattern printed thereon with a coating material having substantially the body of printing ink, and a second pattern applied over a portion of the texture pattern, said second pattern being formed of heavy coating material and standing in relief above the texture pattern.

3. A new article of manufacture comprising a surface covering material having an all-over texture-like pattern printed thereon with a coating material having substantially the body of printing ink, a second pattern applied over a portion of the texture pattern, said second pattern being formed of heavy coating material and standing in relief above the texture pattern, and a wear resistant coating of transparent material over the entire surface of the goods, said coating being thinner over the second pattern than it is over the uncovered portions of the texture pattern.

4. The method of decorating a surface covering material which comprises applying a flat decorative base coating to the goods, printing a fine pattern over the base coating in an ink which lies flat on the base coating to

produce a two-tone background, thereafter applying an opaque decoration over a portion only of the background with a coating material of heavy body, whereby said applied decoration stands in relief above the two-toned background.

5. The method of decorating a surface covering material which comprises applying a flat decorative base coating to the goods, printing a fine pattern over the base coating in an ink which lies flat on the base coating to produce a two-tone background, thereafter applying an opaque decoration over a portion only of the background with a coating material of heavy body, whereby said applied decoration stands in relief above the two-toned background, and applying an all-over transparent coating and leaving the transparent coating thicker over the exposed areas of the background than it is over the applied decoration.

6. As a new article of manufacture, a surface covering having a two-toned decorative base coating applied over the entire surface thereof, and an ornamentation applied over a portion only of the base coating having solid color areas contrasting with the base, said base coating being comprised of metal paint and flat paint.

7. As a new article of manufacture, a flexible hard surface covering presenting a base color, a decorative pattern covering a portion only of the base and consisting of upstanding paint and printed pattern elements lying on the exposed portion of the base, the top surfaces of the last-mentioned pattern elements lying at a lower level than the top surface of said decoration pattern but overlying the base color.

8. As a new article of manufacture, a flexible hard surface covering presenting a base color, a decorative pattern covering a portion only of the base and consisting of upstanding paint, printed pattern elements lying on the exposed portion of the base, the top surfaces of the last-mentioned pattern elements lying at a lower level than the top surface of said decorative pattern but overlying the base color, and a transparent protective coating overlying the material.

9. As a new article of manufacture, a flexible hard surface covering comprising a base, a decorative pattern covering a portion only of the base and consisting of upstanding paint, pattern elements lying on the exposed portion of the base, the top surfaces of the last-mentioned pattern elements lying at a lower level than the top surface of said decorative pattern, and a transparent protective coating overlying the material, said varnish standing at a higher level over said decorative pattern portion than at intermediate portions.

10. A hard-surfaced covering material having a base coating of paint thereover, a

printed fine pattern over said base coating, said pattern being executed in a medium which lies flat on the base coating so as to produce a multi-tone background, and an opaque decoration over a portion only of said background, the opaque decoration being executed in a coating material of heavy body and standing in relief above the two-toned background.

11. A hard-surfaced floor covering material comprising a base presenting a base color and an overlying texture pattern which leaves part of the base color exposed and having ornamentation overlaid over a portion only thereof.

12. A hard-surfaced covering material having an all-over pattern executed in at least two colors, one of which overlies the other, and a second decorative pattern applied over a portion only of the goods, said second decorative pattern standing in relief above the all-over pattern and having a light reflecting quality which contrasts with the light-reflecting quality of the all-over pattern.

13. The method of decorating hard-surfaced covering material which comprises covering the surface of a piece of material presenting a base color with a paint decoration presenting small pattern elements, and thereafter applying opaque pattern elements over a portion only of the first pattern elements in sufficient thickness that the second pattern elements stand in relief above the first.

14. As a new article of manufacture, a flexible hard-surfaced covering presenting a base color having a paint decoration standing in relief over portions thereof, and a flat decoration lying at a lower level between the paint decorations but overlying the base color.

15. As a new article of manufacture, a flexible hard-surfaced covering presenting a base color having a paint decoration standing in relief over portions thereof, and a printed flat decoration lying at a lower level between the paint decorations but overlying the base color.

16. As a new article of manufacture, a flexible hard-surfaced covering comprising a base, a decorative pattern covering a portion only of the base and consisting of upstanding paint, and a two-tone decoration of paint lying between the first mentioned paint portions and at a lower level, one of said paint tones overlying the other.

17. As a new article of manufacture, a flexible hard-surfaced covering comprising a base, a decorative pattern covering a portion only of the base and consisting of upstanding paint, and a two-tone decoration of paint lying between the first-mentioned paint portions but at a lower level, said decoration being made up in part of fine lines in one

tone overlying the other tone of said two-tone decoration.

18. A surface decoration having sharply contrasting portions, including a portion executed with a paint having good light reflecting qualities, the paint being applied in the form of a Ben Day tint, a portion executed with relatively dull paint surrounding the first mentioned portion, and a transparent varnish overlying the first mentioned paint.

In testimony whereof I have hereunto set my hand.

J CLARENCE McCARTHY.

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