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DECORATIVE SCREENING APPLIQUES

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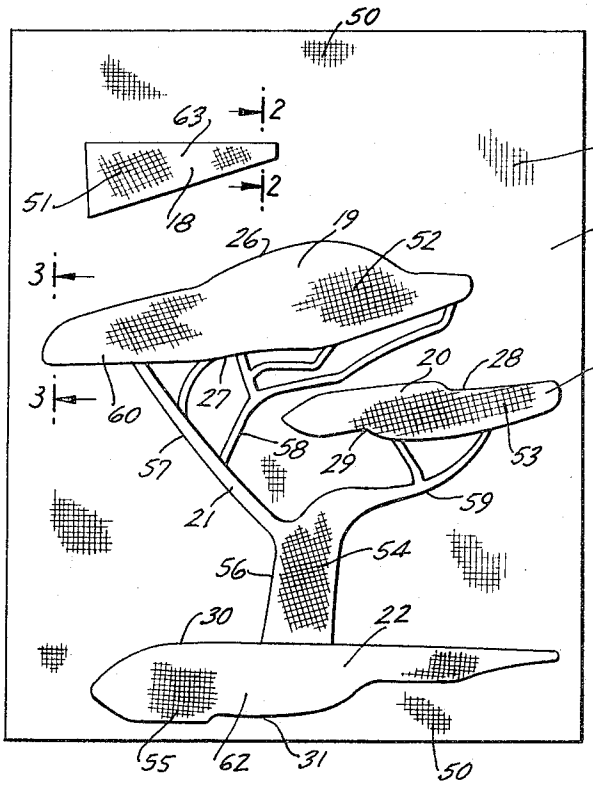
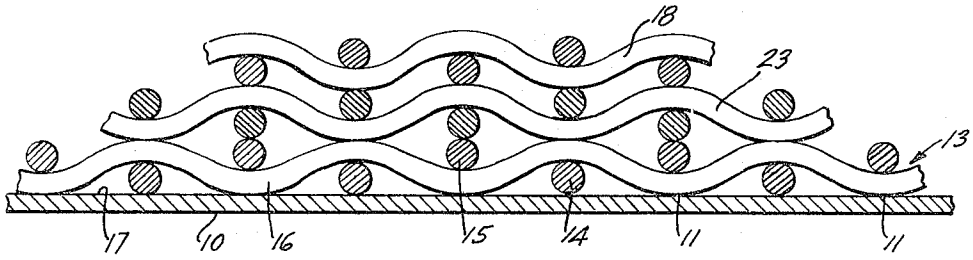


FIG. 1

FIG. 2



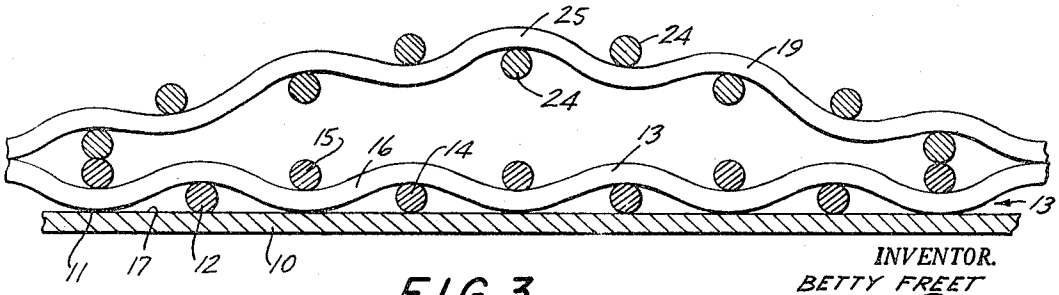


FIG. 3

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DECORATIVE SCREENING APPLIQUES

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Substituted for abandoned application Ser. No. 85,569, Jan. 30, 1961. This application June 1, 1966, Ser. No. 562,412

6 Claims. (Cl. 161—18)

The present invention relates to a decorative screening applique, and it particularly relates to a screening applique in which woven wire screening may be used for making framable pictures, plaques, designs and the like.

It is among the objects of the present invention to provide a decorative screening applique on which may be superimposed various types of woven wire screening.

It is possible to achieve decorative and unusual design effects and particularly unusual and striking moire effects.

Still further objects and advantages will appear in the more detailed description set forth below, it being understood, however, that this more detailed description is given by way of illustration and explanation only and not by way of limitation, since various changes therein may be made by those skilled in the art without departing from the scope and spirit of the present invention.

In accomplishing the above objects, it has been found most satisfactory according to one embodiment of the present invention to use a woven wire cloth having either an aluminum wire weft and warp or a copper weft and warp with the base having the lightest color and with the superimposed appliques thereon consisting of sections of screening having a darker finish whether produced by anodizing, plating or other types of finishing.

Desirably, the wire should have a dimension of .01 to .03 inch and a spacing of the strands both weftwise and warpwise of about 1/32 to 3/32 of an inch.

In the superimposition of these strands or woven pieces one above the other, it is desirable to change their angle, so that the superimposed or appliqued pieces will vary from the base at an angle of about one to five degrees and desirably at an angle of about two to three degrees.

Moreover, the base pieces should preferably be relatively flat whereas the plane or direction of the appliqued pieces should be at an inclination of the plane of the base woven wire structure.

Desirably the base woven wire plaque which may be rectangular, ovular or circular may be of woven aluminum strands both waftwise and weftwise applied onto a stiff cardboard or fabric background having a darker hue than the woven wire which is carried thereby.

Desirably the appliques may be attached to the base strands by substantially invisible loops of wire or staples which should match the color of the applique which is normally a darker hue than the base material.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which fall within the scope of the claims hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:

FIG. 1 is a top plan view upon a small scale showing the applique applied to a base woven screening.

FIG. 2 is a transverse fragmentary section upon an enlarged scale as compared to FIG. 1 upon the line 2—2 of FIG. 1.

FIG. 3 is a transverse fragmentary sectional view upon an enlarged scale as compared to FIG. 1 upon the line 3—3 of FIG. 1.

Referring to FIGS. 1 to 3, there is a supporting back **10** of stiff cardboard or cloth with the touching strands **11** or **12** being adjacently connected thereto or attached by short wires or staples of the same material as the screening itself so as to be substantially invisible.

Desirably the base woven wire fabric **13** is caused to lay relatively flat against the base **10** with the warp strands **14** being positioned closely adjacent to the base **10** on the one side and relatively more remote or spaced on the other side as indicated at **15**.

The intermediate filler strands **16** of the basic fabric **13** will contact the base **10** at various places as indicated at **11** where attachment may be made.

This base woven fabric **13** desirably covers the entire base board **10** both laterally and longitudinally whether to be rectangular as in FIG. 1 or ovular or circular.

The base woven fabric **13** is desirably of light color and desirably is of woven wire aluminum whereas the surface **16** of the base **11** is of a relatively darker color.

The appliques **18, 19, 20, 21** and **22** may be of irregular shape, and they may be double as indicated at **18** and **23** in FIG. 2 or single as indicated at **19** in FIG. 3.

The appliques as indicated at **24** and **25** in FIG. 3 may have the weft and the warp reversed, and they are desirably of darker colored surface material or have been processed so as to have a darker color.

It will be noted that there is a substantial separation or inclination between the fabrics **13** and **19** in FIG. 3 and desirably the appliques are so arranged that they will be at an inclination or convexly curved in respect to the base fabric **13** between their edges **26** and **27** in connection with the appliques **19** in FIG. 1, **28** and **29** in connection with the appliques **20** in FIG. 1 and **30** and **31** in connection with the appliques **22** in FIG. 1.

The inclination should not be more than about three to eight degrees.

In addition to achieve the decorative and three dimensional effect, the angle of the weave should be changed slightly so that whereas the base weave is vertical and horizontal as indicated at **50** in FIG. 1, the applique weave as indicated at **51, 52, 53, 54** and **55** in FIG. 1 will be at an angle of two to five degrees at the base structure.

In this manner, a very unusual three dimensional effect is obtained with the sides as well as the tops of the wire strands being effective to give unusual decorative and applique effect.

The result which is achieved gives a solid body to the applique as applied to the mesh background **13** with the trunk **56** and branches **57, 58** and **59** having a substantially rounded cylindrical effect to the observer whether at an angle or in front.

The same effect is achieved in connection with the leaf plaques **60** and **61** and the ground plaques **62.**

The cloud effect **60** may take several forms and also will have a projecting rounded eye effect when viewed by the observer.

The overall result is an outstanding pictorial representation with the appliques appearing to stand out from the background and giving a rounded three dimensional eye effect in which not only the top curvature of the cylindrical strands but also the side curvature of the sections of such strands serve to emphasize an embossed raised effect.

The appliques are desirably attached to the base structure by staples or small wires of the same color and weight so that they will be substantially invisible.

The sinuous weaving effect with certain portions of each strand standing out as it passes over the corresponding weft or warp will enhance this dimensional effect and give a most desirable picture.

This invention clearly distinguishes from the disclosure

of: Goldberg, 1,723,729, Aug. 6, 1929; Gittens, 2,272,196, Feb. 10, 1942; Sperling, 2,784,513, Mar. 12, 1957; Grundy (Canada), 179,294, Sept. 18, 1917; and Legrand (France), 551,231, Jan. 3, 1923.

Goldberg discloses an applique fabric, while Gittens is concerned with a patch for repairing wire screens.

Where a woven textile fabric is substituted, the three dimensional effect is not obtained and, on the contrary, is destroyed.

By using a solid background **10** which is not penetrated by light or by the eye of the observer, and relatively widely spaced mesh wire screening as indicated at **13, 23, 25, 51, 52, 53, 54, 55,** and **63,** the invention achieves an altogether different result than could be achieved with a woven textile fabric in view of the fact that the relatively fine wires of .01 to .03 inch of open mesh of aluminum and copper permit through vision and are not opaque and at the same time at the distance of about 10 feet the lines of the screening are no longer visible and there is created a three dimensional effect when the mesh is slightly inclined both vertically and horizontally to the base mesh and also when the mesh is bulged or in a slightly inclined plane to the base mesh and base plaque, the preferred angle being 1 to 5°.

Desirably the applique **18** giving the cloud effect **63** is bowed or convex away from the base screening to which it is applied and has a greater angle of variation in respect to the base screening than the other appliques **19** to **22** as shown in FIG. 1 to give this cloud effect.

It will be noted that in the embodiment of FIG. 3, the upper screening is inclined in respect to the lower screening and the base **10** so that its plane will be inclined slightly to the plane of the base or ground **10** by inclining the plane of the superimposed wire fabric or cloth with respect to the base wire fabric or cloth and/or by slightly varying the angle between the weft and the warp of the superimposed wire cloth, it is possible to achieve vivid and decorative three dimensional effects and these effects are greatly enhanced by making the upper layers darker than the lower layers.

It has been found most important that there be a solid back and a base mesh of wire having a relatively open mesh of $\frac{1}{32}$ to $\frac{3}{32}$ of an inch through which the vision will pass without difficulty and that the strands have a dimension of 0.01 to 0.03 inch so that they occupy but a very small space and are not visible for any substantial distance. This has been found to be necessary since the three-dimensional effect is achieved by the fact that the smaller portions such as **51** to **59** stand out as if they were separate from the background and appear to be full size objects which project from the background.

The application is a substitute of application, Ser. No. 85,569, application filed Jan. 30, 1961 now abondoned.

As many changes could be made in the above decorative screening appliques, and many widely different embodiments of this invention could be made without departing from the scope of the claims, it is intended that all matter contained in the above description shall be interpreted as illustrative and not in a limiting sense.

Having now particularly described and ascertained the nature of the invention, and in what manner the same is to be performed, what is claimed is:

1. A decorative three dimensional superimposed stiff open mesh wire screening of aluminum and copper strands of 0.01 to 0.03 inch in diameter having a spacing of about $\frac{1}{32}$ to $\frac{3}{32}$ of an inch mounted on a solid base supporting plaque serving as a supporting back of the type composed of superimposed stiff woven wire screening of aluminum and copper having strands with a dimension of 0.1 inch to 0.3 inch with an open mesh formed by spacing strands $\frac{1}{32}$ to $\frac{3}{32}$ of an inch comprising a supporting back, a flat woven wire cloth placed flatly thereof extending the full width and length of the base plaque and irregular shaped woven wire appliques applied thereto upon the flat woven wire cloth to form a design, the angular relationship of the appliques in respect to the flat woven wire cloth being such as to give a three dimensional effect.

2. The screening of claim **1,** said plaque having a darker color than the color of the flat wire cloth and the applique having a darker color than the color of the flat wire cloth, the angular relationship of the appliques in respect to the flat woven wire cloth being such as to give a three dimensional effect.

3. The screening of claim **1,** said superimposed wire screening being inclined throughout the weft and warp in one layer in respect to another layer at an angle of 1 to 5°.

4. The screening of claim **1,** said appliques having their plane inclined slightly to the plane of the ground.

5. The screening of claim **1,** said appliques being inclined in respect to one another, said inclination consisting of inclining the direction of the weft and warp wires.

6. The screening of claim **1,** both the base and the superimposed screening being formed of woven wire having a dimension of .01 inch to .03 inch in diameter and the mesh size of the base and superimposed wire screening being substantially the same.

No references cited.

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