June 23, 1936. S. SOBIE 2,045,317

ORNAMENTAL COMPOSITE FABRIC

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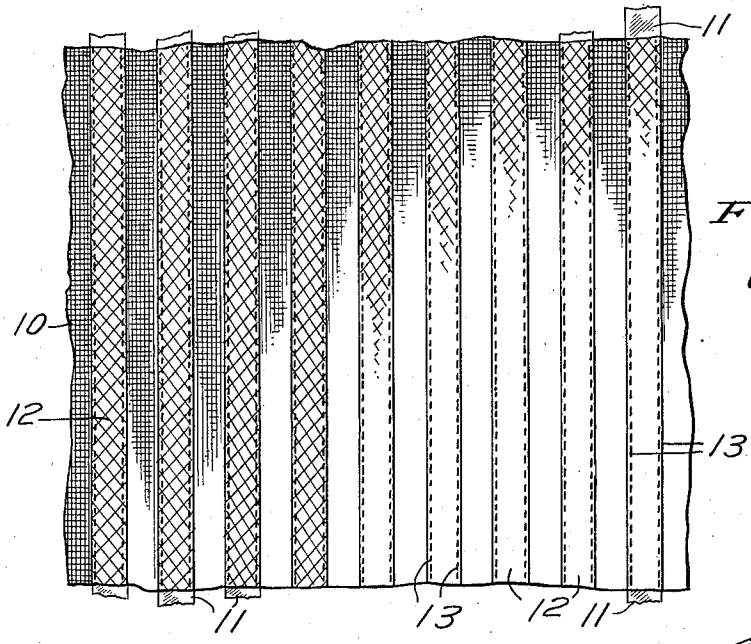


Fig. 1.

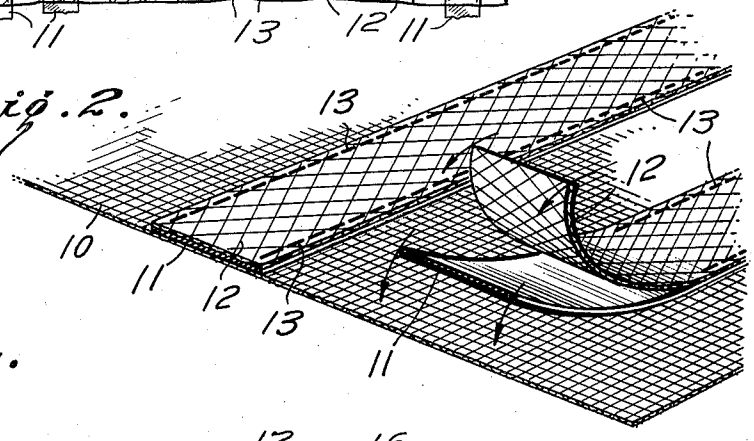


Fig. 2.

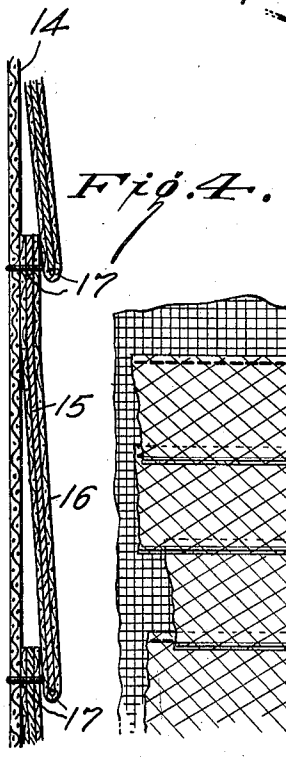


Fig. 4.

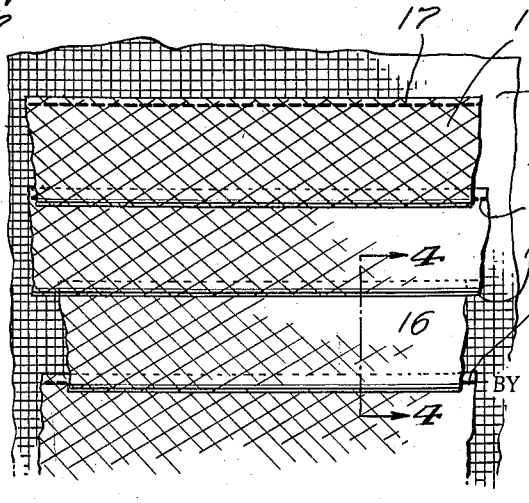


Fig. 3

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ORNAMENTAL COMPOSITE FABRIC

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Application September 21, 1935, Serial No. 41,547

10 Claims. (Cl. 154—46)

This invention relates to laminated fabrics and more particularly to laminated fabrics embodying the use of metallic foil to obtain novel and ornamental effects.

In the use of metallic material of a relatively fragile nature such as metallic foil in conjunction with suitable textile material of a flexible character, certain desirable ornamental effects can be imparted to the textile material whereby the latter is rendered especially suitable for example, for use as drapes, tablecloths, dress material, binding tapes, braids, piping and the like. Metallic foil and particularly aluminum foil lends itself readily for such uses, as these foils may be obtained in a large variety of colors in addition to the natural silver-like color. However, these foils are thin and very fragile and have accordingly not been used to a great extent for the purpose of ornamentation of textile material as they tear and rupture quite readily, thus causing difficulty in securing and detracting from the appearance of the ornamented material.

I have found that metallic foil and particularly aluminum foil can be readily adapted for use in the ornamentation of textile material so that not only is the desired ornamentation or ornamental effect obtained, but at the same time, the extremely fragile metallic foil is protected against tears or ruptures. To accomplish this, the metallic foil is placed upon a backing of some suitable textile material which may for example be a light flexible cloth or reticulated fabric, and a facing sheet of flexible material such as an open net or like reticulated fabric is placed upon the metallic foil so that the color of the surface of the foil will show through in a definite pattern or configuration corresponding to the pattern or configuration of the reticulations of the facing sheet or base. The superimposed materials can be secured in any desirable manner to form a composite laminated ornamental fabric, as for instance by means of some suitable adhesive or by stitching. Care must be exercised in securing the materials to form the composite structure so that the securing means do not obliterate or interfere with the colored pattern of the foil showing through the reticulations. I have found that the desired results can be obtained by sewing the materials together to form the desired composite structure although it is obvious that other suitable and well-known means can be employed to accomplish the same results.

It is therefore an object of my invention to provide an ornamental composite material which employs the medium of a fragile metallic colored material and an overlying reticulated fabric to obtain the desired, pleasing colored and ornamental effect and at the same time, effectively protect the metallic material against tear or rupture.

As the intermediate material is metallic and not readily combustible, it effectively serves to conduct heat and thus impart some fire-resistant characteristics to the composite material. In addition, the composite fabric lends itself readily to repeated cleanings and pressings without destruction of the foil layer and the consequent marring of the ornate appearance of my fabric.

This invention possesses many other advantages, and has other objects which may be made more easily apparent from a consideration of some embodiments of the invention. For this purpose there has been shown two forms of the invention in the drawing accompanying and forming part of the present specification. These forms shall now be described in detail to illustrate the general principle of the invention; but it is to be understood that this detailed description is not to be taken in a limiting sense, since the scope of the invention is defined by the appended claims.

Referring to the drawing:—

Figure 1 is a plan view of a composite ornametal laminated fabric embodying my invention;

Figure 2 is an enlarged fragmentary perspective view thereof with parts separated to show the details of construction;

Figure 3 is a plan view of a modified embodiment of my invention; and

Figure 4 is an enlarged section thereof taken along the line 4—4 of Figure 3.

In Figures 1 and 2 there is shown an ornamental laminated fabric comprising a backing 10, spaced intermediate layers 11 of the colored fragile metallic foil and reticulated facing layers 12 over-lying the layers 11 and secured to the backing 10 in any desirable manner as by stitches 13.

The backing 10 may suitably be formed of any desirable flexible material such as felt, cloth or other woven fabric. The backing 10 is shown in the drawing as being a close woven fabric; however, it is to be understood that an open mesh reticulated fabric can be employed, such as an open net.

The intermediate layers may be formed of suitably colored thin metallic foils or like thin fragile material in the form of strips 11. The metallic foils and especially aluminum foils are particu-

larly desirable for they may be readily obtained in a large variety of colors in addition to the natural silver-like color. The surface layer may suitably be an open-meshed or reticulated fabric having some suitable design or configuration running therethrough as for example, netting, lace or the like.

The composite laminated fabric is formed as follows: The metal foil strips 11 are placed in spaced intervals on the backing 10 and the reticulated fabric facing strips 12 are placed on the metal foils. The individual layers are formed into a unitary structure as by lines of stitches 13 passing through the strips 11 and 12 substantially adjacent the edges thereof. The facing strips 12, being formed of a reticulated fabric, permit the color of the surface of the foil to show through in a definite pattern or configuration coinciding with the pattern or configuration of the facing layer and thus impart a desired ornamental and pleasing effect to the fabric. By the arrangement of the fragile metallic foils between a backing and reticulated facing strips, not only is the desired ornamental effect achieved, but at the same time, the foil is protected against tear or rupture. In addition, the metallic foil renders the fabric more fire-resistant, as the foil is non-combustible and a good conductor of heat.

In the embodiment of my invention shown in Figures 3 and 4, a composite ornamental laminated fabric is formed with a suitable flexible fabric backing 14 which may be formed of the same material as the backing 10, or of other material, such as net or the like. The colored metallic foils 15 are enveloped in a truck formed in a reticulated facing fabric 16 similar to fabric 12 and are secured to the backing 14 as by stitches 17. The facing fabric 16 in effect forms a flattened tubular envelope which substantially encases the metal foil strips 15. The flattened tubular envelopes are secured, as set forth above, to the backing 14 by a line of stitches 17 which pass through the envelopes along one edge thereof. These envelopes are secured to the backing 14 in spaced intervals so that the free unsecured edges thereof overlie the secured edges of the adjacent envelopes.

While I have described my means for forming a unitary composite fabric as consisting of lines of stitches, it is obvious that any other desirable securing means may be employed as for instance an adhesive substance. While any desirable securing means may be employed, it is essential that the stitches or securing means do not materially detract from the ornamental and pleasing appearance of the unitary composite fabric. They may, in fact, form part of a surface pattern over the metal foil. It is also obvious that strips of metallic foil 11 and 15 having the same color or some suitable contrasting color, may be used, depending upon the color effect desired.

I claim:

1. A laminated composite ornamental fabric comprising a layer of metallic foil and overlying fabric facing sheets secured to the metallic foil, at least one of said facing sheets being reticulated.

2. A laminated composite ornamental fabric comprising a fabric backing, an intermediate metallic foil and a reticulated facing sheet overlying said intermediate layer.

3. A laminated composite ornamental fabric consisting of a backing, a layer of metallic foil and a reticulated facing sheet secured to said backing through the metallic foil.

4. A flexible laminated composite ornamental fabric consisting of a close woven fabric backing, an intermediate metallic foil sheet and a reticulated fabric facing sheet secured to said backing through the metallic foil.

5. A flexible laminated composite ornamental fabric consisting of a close woven cloth backing, an intermediate metallic foil sheet and a layer of netting over-lying the metallic foil and secured to the backing by stitches.

6. A laminated composite ornamental fabric comprising a flexible fabric backing, a reticulated fabric facing sheet and intermediate spaced strips of metallic foil.

7. A laminated composite ornamental fabric consisting of a flexible fabric backing, spaced metallic foil strips on said backing and spaced strips of reticulated fabric over-lying the strips of metallic foil and secured to the backing through the strips.

8. A composite laminated fabric comprising a flexible fabric backing, a plurality of flattened tubular reticulated fabric members, and a strip of metallic foil in each of said members and encased thereby, said members being secured along one edge to said backing.

9. A composite laminated fabric comprising a flexible fabric backing, a plurality of flattened tubular reticulated fabric members, and a strip of metallic foil in each of said members and encased thereby, said members being secured along one edge to said backing, the opposed free edges of said members over-lying the secured edges of the adjacent members.

10. An ornamental textile material comprising an elongated strip of metallic foil and a layer of open mesh fabric completely encasing said metallic foil strip.

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