

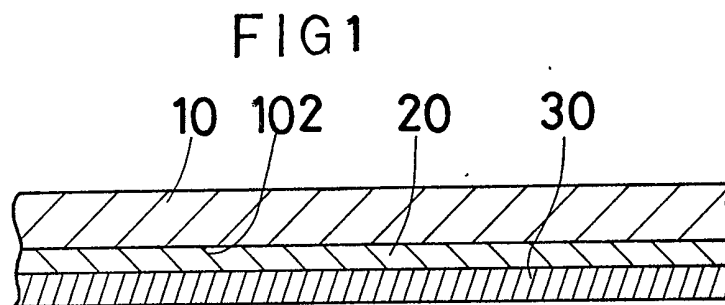
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(54) **Composite films for protecting documents from being reproduced**

(57) A composite film for protecting documents from being reproduced comprising a coloured transparent film 10 and a transparent adhesive layer 20 applied to back 102 of the transparent film 10. Release paper 30 having a releasing agent is provided on the adhesive layer 20.



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FIG 1

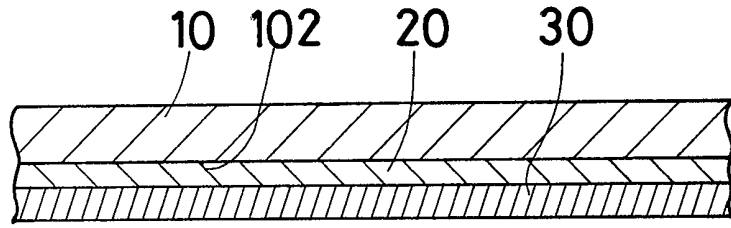


FIG 2

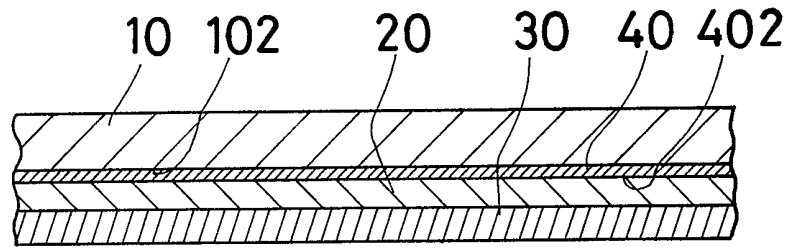


FIG 3

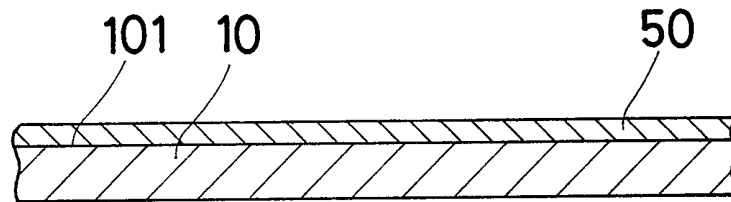
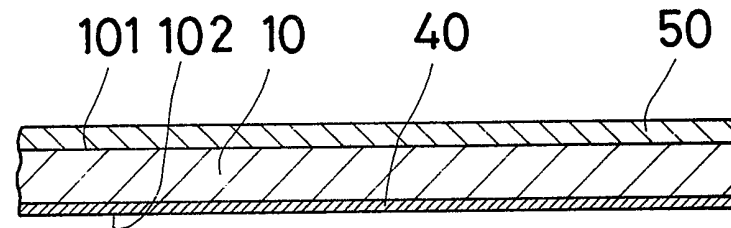


FIG 4



SPECIFICATION

Composite films for protecting documents from being reproduced

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This invention relates to composite films for protecting documents, on which information has been recorded, from being reproduced by means of photography or electronic photography.

10 Conventionally, documents, for example paper or film on which information such as letters and figures have been recorded by handwriting, printing or copying, are reproduced frequently by means of electronic duplicating machines or cameras without asking the document possessor's permission.

15 An object of the present invention is to provide composite films for protecting documents from being reproduced, said composite films being so adapted that when they are affixed to a surface, on which information has been recorded, of the document, the information can be seen through them, but the information can't be reproduced because reproductions made by means of electronic duplicating machines or cameras become black and are not visible.

25 A further object of the invention is to provide composite films protected from being reproduced by themselves, said composite films being so adapted that when information is recorded on their surface, the information is visible, but the information can't be reproduced because reproductions made by means of electronic duplicating machines or cameras become black and are not visible.

30 With these objects in view the present invention provides a composite film for protecting documents from being reproduced comprising an orange, brown or red coloured transparent film and a transparent adhesive layer applied to the back of said transparent film.

40 The invention will be described further, by way of example, with reference to the accompanying drawings in which:-

Figure 1 is an enlarged fragmentary sectional view of a composite film for protecting documents from being reproduced according to the first aspect of the invention;

Figure 2 is an enlarged fragmentary sectional view of a composite film for protecting documents from being reproduced according to the second aspect of the invention;

Figure 3 is an enlarged fragmentary sectional view of a composite film protected from being reproduced according to the third aspect of the invention;

Figure 4 is an enlarged fragmentary sectional view of a composite film protected from being reproduced according to the fourth aspect of the invention.

60 The composite film for protecting documents from being reproduced, according to the first aspect of the invention, as shown in *Figure 1*, comprises an orange, brown or red coloured transparent film 10 and a transparent adhesive layer 20 applied onto back 102 of the transparent film 10. The adhesive layer 20 is applied to the back 102 of the transparent film 10 in the following manner:- an adhesive layer is

applied to a paper or film, and then the adhesive layer is adhered to the back 102 of the transparent film 10. Subsequently, the paper or film is released from the adhesive layer. Furthermore, it is advantageous to stick release paper 30, to the surface of which a releasing agent, for example, silicon resin has been applied, on the surface of the adhesive layer 20.

70 The composite film for protecting documents from being reproduced, according to the second aspect of the invention, as shown in *Figure 2*, comprises an orange, brown or red coloured transparent film 10, a metallic foil 40 capable of being seen through formed by vacuum deposition on the back 102 of the transparent film 10 and a transparent adhesive layer 20 applied to the surface 402 of the metallic foil 40. The metallic foil 40 is formed by vapourizing a metal, for example, aluminium or silver in vacuum and depositing the metal on the back 102 of the transparent film 10, and has 10 - 70% of the transmittance of visible rays. It is preferable to affix removably the foregoing releasing paper 30 to the surface of the adhesive layer 20.

80 The composite film protected from being reproduced, according to the third aspect of the invention as shown in *Figure 3*, comprises an orange, brown or red coloured transparent film 10 and a transparent resin film 50 containing fine particles of a matting agent, said resin film being applied to surface 101 of the transparent film 10. As explained in detail in Japanese published patent application No. 51-34734, the transparent resin film 50 containing fine particles of a matting agent is formed by applying and drying a solution of a resin such as polyolefine resin, polyacrylic acid resin, polyvinylchloride resin etc, containing 0.07 - 6% by weight of silica, the article size of which is 0.007 - 0.016 micron, said resin being dissolved in an organic solvent comprised of one or two out of alcohols, ketones and chloronized hydrocarbons.

100 The composite film protected from being reproduced, according to the fourth aspect of the invention as shown in *Figure 4*, comprises an orange, brown or red coloured transparent film 10, a transparent resin film 50 containing fine particles of a matting agent, said resin film being applied to the surface 101 of the transparent film 10 and a metallic foil 40 capable of being seen through formed by vacuum deposition on the back 102 of the transparent film 10.

105 How to use the composite films according to the invention will be explained hereinafter.

110 The composite film for protecting documents from being reproduced according to the first aspect of the invention is affixed to the surface, on which documentary information has been recorded (not shown) using the adhesive layer 20, after a releasing paper 30 is removed from the surface of the adhesive layer 20 if the releasing paper 30 has been affixed to the surface of the adhesive layer 20. The information on the documents is visible through the transparent film 10 and the adhesive layer 20. Also, the composite film for protecting documents from being reproduced according to the second aspect of the invention is affixed to the surface of documents using the adhesive layer 20, after a releasing paper

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30 is removed from the surface of the adhesive layer 20 if the releasing paper 30 has been affixed to the surface of the adhesive layer 20. The information on the documents is visible through the transparent 5 film 10, the metallic foil 40 and the adhesive layer 20. However, the information of the documents to which the composite film for protecting documents from being reproduced according to the invention is affixed can't be reproduced by means of electronic 10 duplicating machines or cameras because reproductions become black and are not visible.

On the composite film protected from being reproduced according to the third or fourth aspect of the invention information can easily be recorded by 15 handwriting, printing and so on, and recorded information is clearly visible. However, the information can't be reproduced by means of electronic duplicating machines or cameras because reproductions become black and are not visible.

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CLAIMS

1. A composite film for protecting documents from being reproduced comprising an orange, 25 brown or red coloured transparent film and a transparent adhesive layer applied to the back of said transparent film.
2. A composite film for protecting documents from being reproduced as claimed in claim 1, 30 wherein a releasing paper is affixed removably to the surface of the adhesive layer.
3. A composite film for protecting documents from being reproduced comprising an orange, brown or red coloured transparent film, a metallic 35 foil capable of being seen through, said metallic foil being formed by vacuum deposition on the back of the transparent film and a transparent adhesive layer applied to the surface of said metallic foil.
4. A composite film for protecting documents 40 from being reproduced as claimed in claim 3, wherein a releasing paper is affixed removably to the surface of the adhesive layer.
5. A composite film protected from being reproduced comprising an orange, brown or red coloured 45 transparent film and a transparent resin film containing fine particles of a matting agent, said resin film being applied to the surface of the transparent film.
6. A composite film protected from being reproduced comprising an orange brown or red coloured 50 transparent film, a transparent resin film containing fine particles of a matting agent, said resin film being applied to the surface of the transparent film and a metallic foil capable of being seen through, said metallic foil being formed by vacuum deposition on 55 the back of the transparent film.
7. A composite film substantially as hereinbefore described with reference to and as illustrated in Figure 1, or in Figure 2, or in Figure 3 or in Figure 4 of the accompanying drawing.