May 1, 1973 J. NEWBERGER 3,730,751

METHOD FOR ERASURE DRAWING

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FIG. 1.

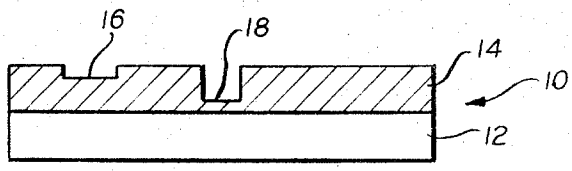


FIG. 2.

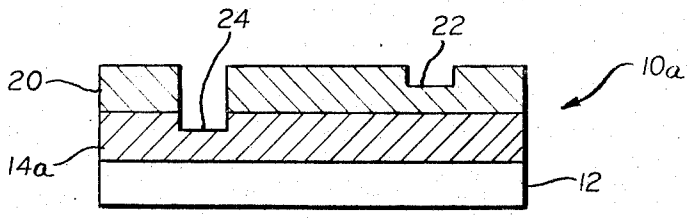
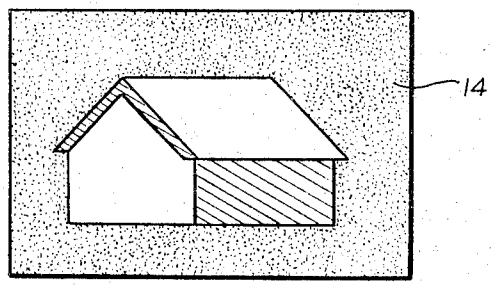


FIG. 3.



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METHOD FOR ERASURE DRAWING

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ABSTRACT OF THE DISCLOSURE

A method of drawing an original image by the selective erasing of an erasable coating, such as ink, from a multilayer sheet of drawing material. The coating has a starting shade which contrasts with the shade of the underlying layer, which may be the sheet itself, and is partially erasable to produce intermediate shades of the starting shade. More than one contrasting erasable coating layer may be provided in which instance selective erasing of one or more of the coating layers, either wholly or partially, is utilized to draw the original image.

BACKGROUND OF INVENTION

Field of the invention

The present invention relates to a method of drawing an original image by use of an eraser.

DESCRIPTION OF THE PRIOR ART

Traditionally, drawing has been basically a process of putting dark lines on a light or white background. The surface to be drawn upon is usually white, or lighter than the drawing medium, and one, in effect, darkens this light surface with various media such as charcoal, graphite, ink, etc. Other prior art techniques have involved the use of a negative made by applying printer's ink to a backing member and then the selective removal of portions of the ink to form letters or the like by mechanically cutting openings through a waxy coating which has been treated so as to be opaque and which is carried by a transparent backing. However, in such a selective removal technique, there is no provision for partial removal of the printer's ink so as to obtain intermediate shades, or half tones, of the starting shade of the printer's ink. This does not permit varying effects but rather only permits a black or white composition of the image to be created.

Still other prior art techniques have utilized a multilayer sheet containing a concealed picture which is exposed by rubbing away the concealing layer, or the use of a coating layer which is dissolvable to reveal the underlying concealed picture. However, in these prior art techniques, an original image is not drawn but rather only a concealed previously created picture is ultimately revealed.

Still another prior art technique utilizes a stiff white cardboard which is coated with India ink and a metal stylus which is employed to make a drawing by removing portions of the ink with the stylus so as to reveal corresponding portions of white therebeneath. However, this technique is essentially an engraving technique and, once again, is not capable of producing intermediate shades of the starting shade of the ink.

SUMMARY OF THE INVENTION

An original image is drawn on a multilayer sheet of drawing material having an erasable coating, such as ink, substantially over the entire drawing area, by the selective erasing of the coating. The coating has a starting shade which contrasts with the shade of the underlying layer and which is partially erasable to produce intermediate shades of the starting shade by applying a partial pressure to the coating with an eraser. Such partial pressure is less than the total pressure required to erase substantially the entire coating at the place of pressure application. More than one contrasting erasable coating layer may be provided in which instance selective erasing of one or more of the coating layers, either wholly or partially, may be accomplished so as to draw the original image. By partially erasing the various coatings, shading may be introduced into the original image. A comprehensive range of varying effects may thereby be produced by varying the pressure applied by the eraser to the coated drawing sheet as well as by utilizing drawing sheets having a plurality of contrasting erasable coating layers. When utilizing multilayer drawing sheets, if the image to be drawn is essentially light in color, then the outermost coating is chosen to be light, and if the image to be drawing is essentially dark in color, then the outermost contrasting layer is chosen to be dark.

BRIEF DESCRIPTION OF DRAWING

FIG. 1 is a diagrammatic illustration of an exemplary drawing sheet utilized in performing the preferred method of the present invention;

FIG. 2 is a diagrammatic illustration of another exemplary drawing sheet which can be utilized in performing the preferred method of the present invention; and

FIG. 3 is an illustrative example of a drawing made in accordance with the preferred method of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring now to the drawings in detail and especially to FIG. 1 thereof. In drawing an original image in accordance with the preferred method of the present invention, preferably a sheet of drawing material having one or more layers of erasable coating is utilized. Such a sheet of drawing material is shown illustratively in FIG. 1 where the sheet, generally referred to by the reference numeral **10**, has an underlying surface area **12** and an erasable coating **14** which preferably overlies the entire surface area **12** upon which the original image is to be drawn. By way of example and not limitation, the surface area **12** portion of the sheet **10** may preferably be a smooth surfaced paper and the erasable coating **14** may consist of a predetermined concentration of a darkening agent such as India ink. If desired, various other grades and types of paper and various other erasable coatings may be utilized in practicing the method of the present invention without departing from the spirit and scope of the present invention. However, for purposes of explanation, we shall describe the method of the present invention with reference to a smooth paper surface area **12** and the use of India ink as the erasable coating **14**.

Preferably, the erasable coating **14**, in this instance the ink, should be of a consistency that will allow an eraser to rub into it without resisting the eraser. In addition, the surface area **12**, which is preferably paper, should generally not be soft enough to permit the eraser to rub deeply into the paper as this will reduce control over the various intermediate shades of the erasable coating that are producible in accordance with the preferred method of the present invention, as will be described in greater detail hereinafter. Preferably, the erasable coating, which in this instance is a predetermined concentration of India ink, is uniformly distributed over the smooth paper surface **12**. The smooth paper may be such as smooth surface Aquabee Bristol paper. By way of illustration, if India ink is utilized as the erasable coating, it may be utilized full strength, diluted fifty percent with distilled water and aqua ammonia, that is, distilled water being one-half the volume of the ink being added to the volume of the ink; diluted at the rate of one-hundred percent; diluted at the rate of one-hundred and fifty percent, or any other de-

sired concentration which still provides an erasable coating of a consistency which allows the eraser to rub into it.

In practicing the preferred method of the present invention, an eraser is utilized with the sheet of drawing material having an erasable coating, such as the material illustrated in FIG. 1. By the use of the term eraser it is meant to include any abrasion means such as, by way of example, rubber, steel wool, or sandpaper, and is not meant to refer to only rubber. However, preferably rubber erasers are utilized in practicing the preferred method of the present invention, such as commercially available ink eraser sticks.

In practicing the preferred method of the present invention, the artist places a sheet of drawing material having an erasable coating thereon, such as the drawing material illustrated in FIG. 1, on the writing surface. The sheet preferably contains no predesigned hidden image thereon and is to be utilized for purposes of drawing an original image. The artist then takes an eraser and selectively erases the erasable coating so as to produce an original image in accordance with whatever pattern or design he wishes to draw. The original image is preferably drawn solely by use of this selective erasing. Various degrees of shading can be introduced into the original image by the artist by varying the amount of pressure applied by the eraser to the erasable coating **14**. By applying a partial pressure, that is a pressure which is less than the total amount of pressure required to erase substantially the entire coating, at a given point on the erasable coating as he is drawing the original image, an intermediate shade of the starting shade of the erasable coating **14** is produced. As previously mentioned, the surface area **12** is preferably a contrasting shade with that of the erasable coating **14**. By rubbing the eraser on the erasable coating **14** with varying degrees of pressure, various intermediate shades are produced. By starting shade, it is meant the unerased shade of the erasable coating.

By way of illustration in FIG. 1, the results of the application of varying degrees of partial pressure are shown. Assuming the starting shade of the erasable coating **14** to be darker than that of the surface area **12**, the lower the degree of partial pressure applied in rubbing the eraser on the erasable coating **14**, the darker that portion of the original image so that illustrated area **16** would be darker in appearance than illustrated area **18** in FIG. 1. Similarly, if the erasable coating **14** were lighter in starting shade than the surface area **12**, then the lesser the degree of partial pressure applied by the eraser to the erasable coating **14**, the lighter that portion of the original image. Therefore, by varying the amount of pressure applied by the eraser, various degrees of intermediate shading may be introduced into the original image. By way of illustration, FIG. 3 shows an original image drawn in accordance with the preferred method of the present invention. Assuming the erasable coating to be black and the surface area **12** to be white, the shaded area of FIG. 3 represents the black background area, the unshaded area represents substantially white portions or light grey portions of the image, and the cross-batched areas represent an intermediate shade of grey between the white and black areas.

In practicing the preferred method of the present invention, as was previously mentioned, a drawing sheet having any number of erasable coatings thereon may be utilized. Such a drawing sheet is shown by way of example in FIG. 2. Preferably, each of the erasable coatings is of a contrasting starting shade and is a substantially uniform coating over the surface area **12**. By way of example, the multilayer drawing sheet **10***a* shown in FIG. 2 has two erasable coatings **14***a* and **20** thereon. In the example shown in FIG. 2, two portions of the original image have been reproduced by applying varying degrees of partial pressure; a small amount of partial pressure having been applied to point **22** so as to only partially erase a portion of the uppermost erasable coating **20**, and a greater degree of partial pressure having been applied to point **24** so as to totally erase the uppermost erasable coating **20** and partially erase the underlying erasable coating **14***a* of portion **24** of the original image. By utilizing such a multilayer drawing sheet a greater variety of shading for various portions of the original image may be introduced.

In addition, if desired, after the original image has been drawn by the selective erasing of the erasable coating or coatings, the drawing may be colored with a transparent media such as transparent drawing ink. Furthermore, the method of the present invention is equally applicable to drawing sheets which have erasable coatings thereon which are other shades or colors than black or white, such as a given starting shade of red or blue or some other color in the spectrum, as long as the erasable coating or coatings are contrasting shades with respect to each other and the surface area of the drawing sheet. In such an instance, more varied effects than are obtainable with mere black and white erasable coatings can be obtained.

Preferably, when practicing the method of the present invention, if the original image to be drawn will contain mostly white areas, then the artist should use a sheet of material having an uppermost erasable coating layer which is light in color, such as white. On the other hand, if the original image to be drawn will contain mostly dark areas, such as shadows, then the artist should use a sheet of drawing material having an uppermost erasable coating layer which is dark.

In summarizing the method of the present invention, an original image is drawn on a sheet of drawing material having at least one erasable coating covering the surface area of the sheet by the selective erasing of the coating from the sheet. The coating may be partially erased to produce intermediate shades of the starting shade of the coating by varying the amount of pressure applied by the eraser on the erasable coating.

It is to be understood that the above described embodiments of the invention are merely illustrative of the principles thereof and that numerous modifications and embodiments of the invention may be derived within the spirit and scope thereof, such as combining the method of selective erasing of the coating with engraving techniques for a portion of the image in which a stylus is employed to remove portions of the coating by scratching, so as to provide additional effects in the drawing, such drawing being substantially made by the method of selective erasing of the erasable coating.

What is claimed is:

1. A method of drawing an original image comprising the steps of:

providing a sheet having a surface area upon which said original image is to be drawn, said surface area having an erasable coating covering substantially all of said surface area, said surface area having a given shade, said coating having a starting shade which contrasts with the shade of said surface area; and

selectively erasing said coating with an eraser to produce said original image, said original image being drawn substantially by said selective erasing, at least a portion of said original image being produced by partially erasing at least at portion of said coating to produce intermediate shades of said starting shade, whereby an original image having various degrees of shading is produced.

2. A method in accordance with claim **1** wherein said erasing step includes the further step of applying a partial pressure to said coating with said eraser to partially erase said coating, said partial pressure being less than the total pressure required to erase substantially said entire coating at the place of said pressure application.

3. A method in accordance with claim **1** wherein said providing step comprises providing a sheet with said surface area having at least a first uppermost coating layer and a second coating layer underlying said first layer, at

least said uppermost coating layer being an erasable coating, said first and second layers having contrasting starting shades, said sheet being a backing layer for said coating layers.

4. A method in accordance with claim 3 wherein said providing step comprises providing said surface area wherein said first and second coating layers are erasable, and said selective erasing step comprises producing at least a portion of said original image by substantially erasing at least a portion of said uppermost coating layer and partially erasing at least a portion of said underlying coating layer to produce intermediate shades of said underlying coating layer starting shade.

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35—66; 117—37 R, 45, 76 P, F