

ELECTRONIC IMAGE INFORMATION FILING APPARATUS DISPLAYING EDITING CORRECTIONS

BACKGROUND OF THE INVENTION

The present invention relates to an electronic filing apparatus which can store image information and can carry out editorial processing such as the retrieval, correction and writing of information, and more particularly to an electronic filing apparatus capable of showing what part of original image information has been edited and how this part has been edited.

An example of an electronic filing apparatus with a function of editing image information is disclosed in a Japanese patent application JP-B-62-26035 filed by Toshiba Corporation on Nov. 5, 1980 and laid open on May 17, 1982. In this example, image information is edited in such a manner that original image information is read out of a storage device, information such as a character and a sign is added to the read-out image information, and the modified image information thus obtained is stored in the storage device. In the editorial processing for carrying out such modification, part of the original image information is usually rewritten. Hence, when the modified image information is displayed on a display screen, it is impossible to know what part of the displayed information has been rewritten. Further, it is impossible to display the original image information prior to rewriting.

In the document processing of conventional paperwork, an original sentence or figure is usually modified in the following manner. That is, that part of the original sentence or figure which is to be modified, is erased, and modified information is written in the erased part. In some cases, the erased information and the modified information are both important to the writer of the original sentence, an editor and readers. In such cases, in order to be able to know both of the erased information and the modified information, original information is not erased but a slash or the like is written on the original information, and then new information is written in the vicinity of the original information. Further, in some cases, a red underline is given to a part of a sentence to clearly show that the part is important, or a comment is written in red color in a blank region of a document. That is, red display is used for showing that the underline and comment is information added to original information.

As mentioned above, in a case where the modification of a sentence and additional writing of information are carried out, it is important to show what part of resultant information has been modified or is additional information.

It is not considered by the electronic filing apparatus disclosed in the above-referred Japanese patent application, to show what part of resultant information has been modified or is additional information. Accordingly, when image information having been subjected to editorial processing is read out of the storage device and displayed on the display screen, it is impossible to know what part of the displayed information has been modified or is additional information.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide an electronic filing apparatus which can modify an original image information and add new information thereto,

and which can show what part of an image displayed by a display device has been modified or is additional information.

It is another object of the present invention to provide an electronic filing apparatus which can display image information on a display screen in colors, and which can correct original image information in red color and give a red underline to the original image information.

In order to attain the above objects, according to the present invention, there is provided an electronic filing apparatus which comprises a storage device for storing image information therein, a first buffer memory for reading out image information from the storage device and for storing read-out image information (namely, original image information) as first image information, a device for producing second image information usable for editing the first image information, a second buffer memory for storing the second image information therein, an image display control device for reading out the first and second image information from the first and second buffer memories, respectively, to deliver combined information of the first and second image information, and a display device applied with the output of the image display control device for displaying the output on a display screen.

In more detail, the original image information is temporarily stored in the first buffer memory. The addition of information or the modification of the original image information is not made in the first buffer memory, but editing image information added to the original image information or used for modifying the original image information is temporarily stored in the second buffer memory. The original image information from the first buffer memory and the editing image information from the second buffer memory are combined, to display a resultant image which is just like that obtained by editing the original image information, on the display screen of the display device. Further, when the resultant image is displayed on the display screen, the original image information and the editing image information are displayed in different colors, to discriminate therebetween. Thus, those portions of the resultant image where the original image information has been modified or new image information has been added to the original image information, can be readily found. Further, it is possible to correct a desired sentence in red color and to draw a red line underneath it.

The original image information stored temporarily in the first buffer memory and the additional image information stored temporarily in the second buffer memory are written into different regions of the storage device. Accordingly, the original image information and the editing image information can be separately read out of the storage device. That is, when the original image information and the editing image information have been stored in the storage device, an image due to only the original image information or an image due to only the additional image information (that is, an image indicative of only edited portions) can be selectively displayed on the display screen.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a block diagram showing an embodiment of an electronic filing apparatus according to the present invention.