

- [54] **SYSTEM AND METHOD FOR COLOR IMAGE ENHANCEMENT**
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- [73] **Assignee:** American Film Technologies, Inc., Wayne, Pa.
- [21] **Appl. No.:** 222,543
- [22] **Filed:** Jul. 25, 1988

Related U.S. Application Data

- [63] Continuation-in-part of Ser. No. 81,116, Aug. 3, 1987, abandoned.

- [51] **Int. Cl.⁵** H04N 1/46
- [52] **U.S. Cl.** 358/81; 358/82
- [58] **Field of Search** 358/81, 82, 75, 80

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[57] **ABSTRACT**

A system and method for color enhancing an image or a series of images such as a motion picture by digitally capturing the images, interactively defining masks corresponding to objects in the images having similar hues, creating regions from these masks, and for each region, defining a color transfer function for converting image gray-scale information to unique values of Hue, Luminance, and Saturation. The gray-scale values within each region are then processed through that region's color transfer function, and the resulting colors applied to the image and stored for later retrieval and display.

37 Claims, 9 Drawing Sheets

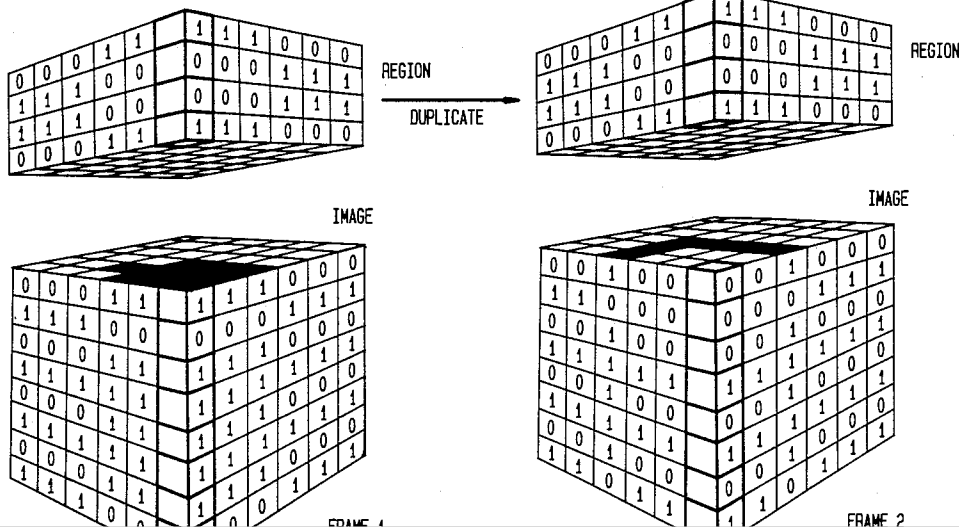


FIG. 1

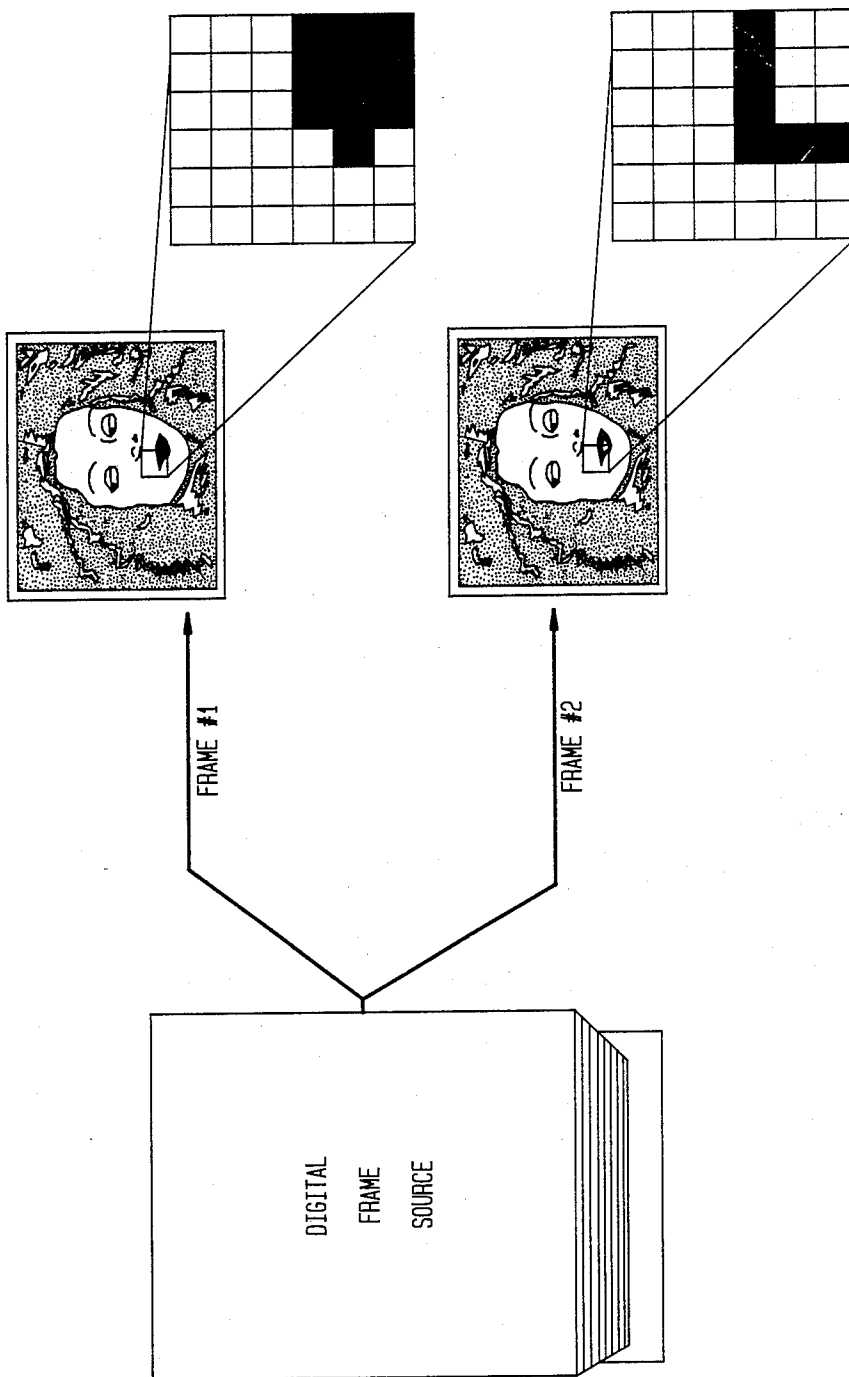


FIG. 2

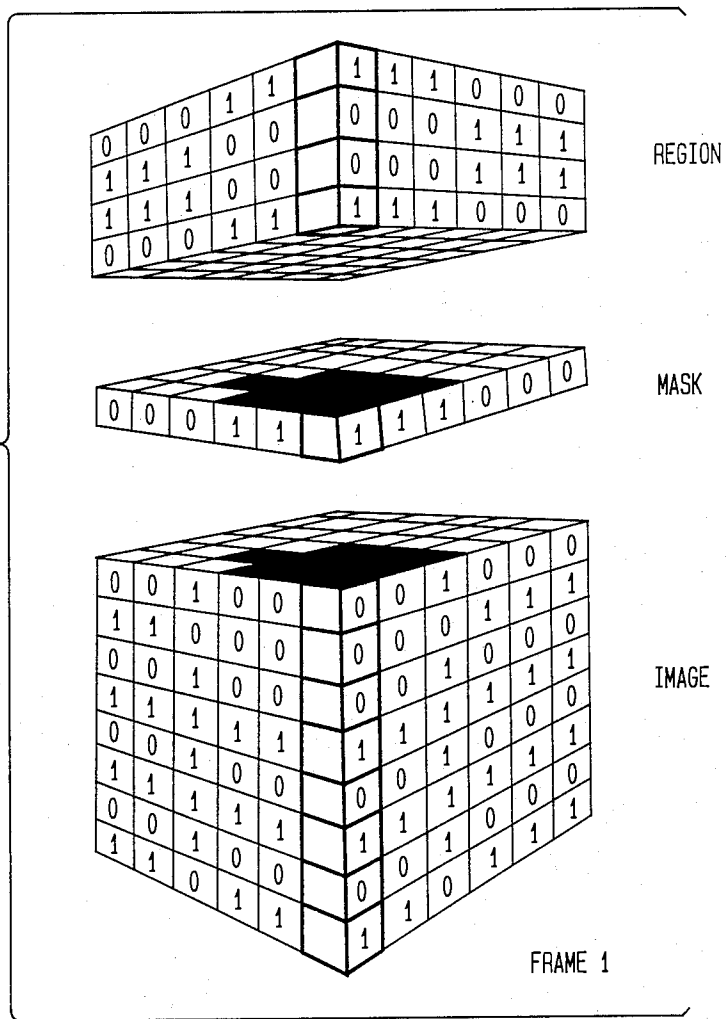


FIG. 3

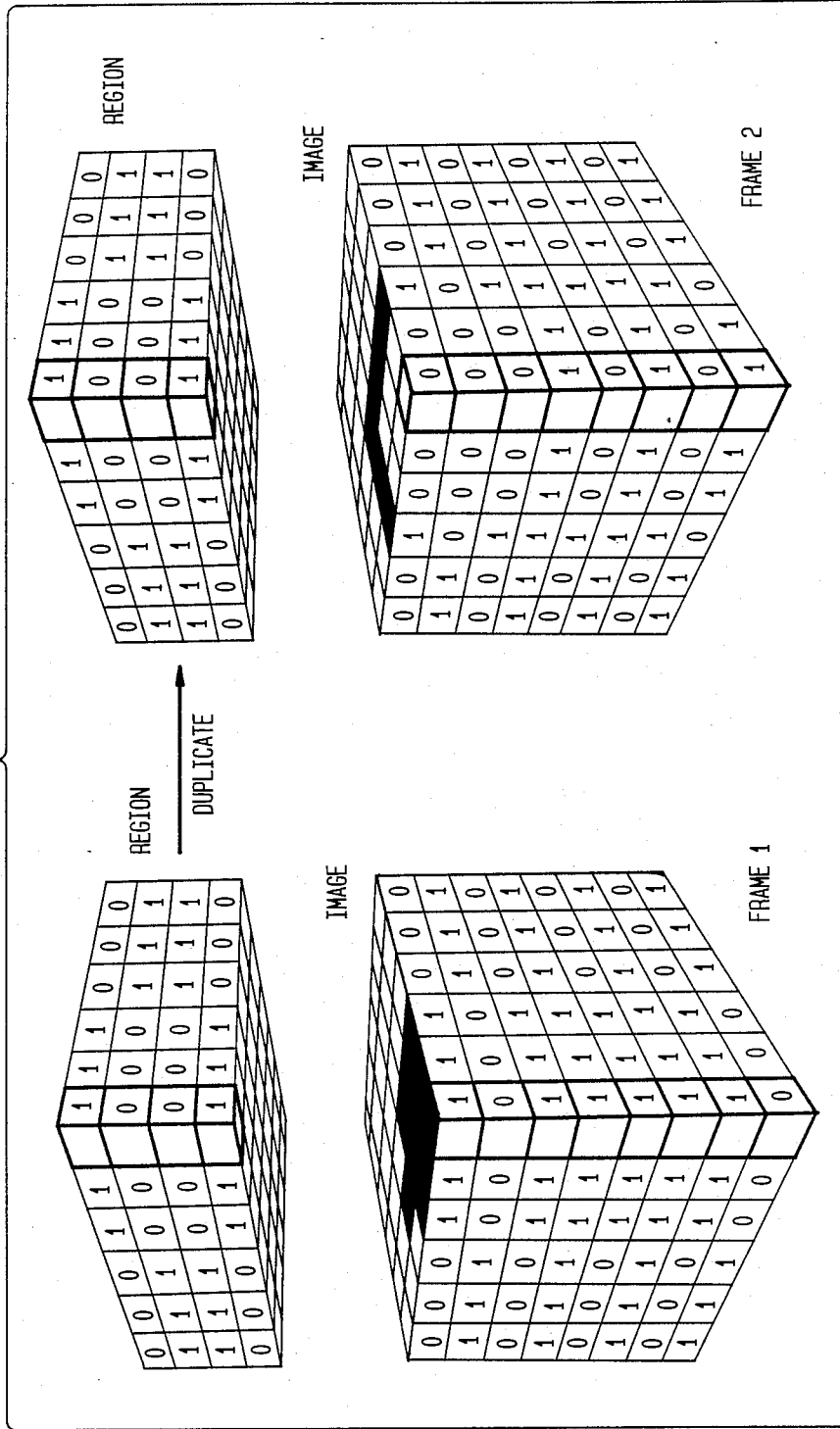
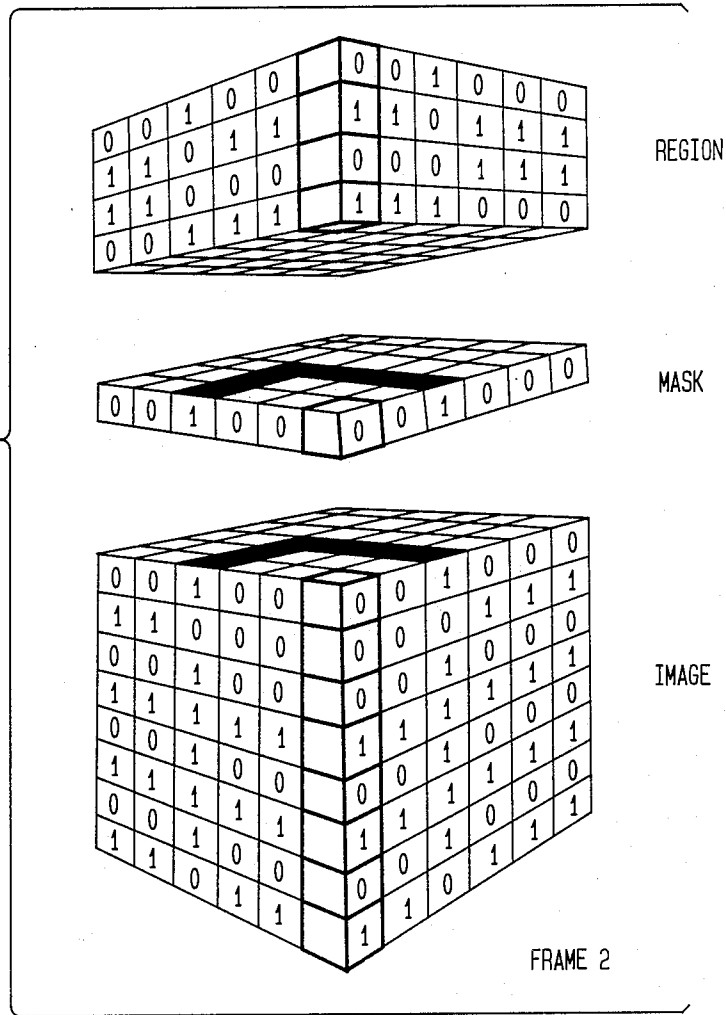


FIG. 4



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