

Title (en)

COLOR VIDEO PRINTER AND A PHOTO-CD SYSTEM WITH INTEGRATED PRINTER

Title (de)

FARBENVIDEODRUCKER UND PHOTO-CD SYSTEM MIT INTEGRIERTEM DRUCKER

Title (fr)

IMPRIMANTE VIDEO EN COULEURS ET SYSTEME CD PHOTOGRAPHIQUE A IMPRIMANTE INTEGREE

Publication

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Application

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Abstract (en)

[origin: WO9632265A1] A color video printer and a photoCD player which use a Liquid Ink Fault Tolerant (LIFT) drop on demand printing mechanism. The color video printer system comprises a video format converter which changes the video input format to a form suitable for storage in a digital frame store, a digital frame store, an optional digital image processing system, a digital halftoning unit (preferably using vector error diffusion), a data phasing unit, and a concurrent drop selection and drop separation printing mechanism using liquid ink. The system operates by capturing a single frame of a video signal. This frame is stored in a continuous tone frame store. The image may be processed to remove inter-field motion artifacts, or to provide various forms of image enhancement. When the image is ready to be printed, the digital image contained in the frame store is digitally halftoned in real-time and printed by the printing head. The PhotoCD player operates in a usual manner when viewing digitally encoded photographs on a television set or video monitor. When a photograph is to be printed, the digitally compressed and encoded data is read from the PhotoCD using a CD-ROM drive. This data is decompressed into continuous tone raster image data, which is converted to a bi-level image by digital halftoning, and stored in a bi-level image memory. The contents of the bi-level image memory can then be printed using the concurrent drop selection and drop separation printing head.

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