

Title (en)

DISPLAY SYSTEM FOR COLOR IMAGE QUANTIZATION

Publication

EP 0319684 A3 19910206 (EN)

Application

EP 88117468 A 19881020

Priority

US 11188787 A 19871023

Abstract (en)

[origin: EP0319684A2] An apparatus for displaying video color images and minimizing buffer memory size quantizes a video image into a reduced number of corresponding color values. A lookup table (16) for driving a refresh buffer is encoded with a set of neighboring color values for transforming a three component color video signal to two-component format. The two-component signals are stored in a frame buffer (20) of reduced capacity sufficient to store the quantized color image. When addressed by a raster scan (21) the frame buffer is read out into a second lookup table (22) for converting the quantized image into a reduced set of color values. Since no intermediate computing or processing is required, the transformation is accomplished in real time, allowing contemporaneous color display while reducing buffer memory size demands.

IPC 1-7

G09G 1/28; **G06F 15/64**

IPC 8 full level

G06F 3/153 (2006.01); **G06T 11/00** (2006.01); **G09G 5/02** (2006.01); **G09G 5/06** (2006.01); **G09G 5/36** (2006.01); **G09G 5/42** (2006.01)

IPC 8 main group level

H04N (2006.01)

CPC (source: EP)

G09G 5/022 (2013.01); **G09G 5/06** (2013.01)

Citation (search report)

- [A] US 4639771 A 19870127 - HATTORI YOSHIHISA [JP], et al
- [A] EP 0132641 A2 19850213 - DORNIER SYSTEM GMBH [DE]
- [AP] SYSTEMS AND COMPUTERS IN JAPAN, vol. 19, no. 3, March 1988, pages 73-78, NY, US; T. AGUI et al.: "Speed-up algorithm of color image quantization"

Cited by

EP1887785A1; GB2371730B; EP0445388A3; WO2008016305A3; US6900815B2; US8478028B2; JP2009545804A; EP0465102B1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0319684 A2 19890614; **EP 0319684 A3 19910206**; IL 88097 A0 19890630; JP H0292 A 19900105

DOCDB simple family (application)

EP 88117468 A 19881020; IL 8809788 A 19881020; JP 26627388 A 19881024