

Title (en)

Method and apparatus for processing video picture data for a display device

Title (de)

Verfahren und Vorrichtung zur Verarbeitung von auf einem Bildschirm dargestellten Videodaten

Title (fr)

Procédé et dispositif de traitement de données vidéo pour être visualisées sur un écran

Publication

EP 1262947 A1 20021204 (EN)

Application

EP 02291257 A 20020521

Priority

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- EP 01250199 A 20010601

Abstract (en)

The invention is related to a new kind of dithering method for plasma display panels. In a former European Patent Application a dithering method for the plasma display technology has been presented that utilizes a 3-dimensional dither pattern for the repeated use in a video sequence. A first dimension corresponds to a number of video frames, a second dimension corresponds to a number of video lines, and a third dimension corresponds to a number of cells or pixels in a video line. It has been found that this dither pattern has for some video levels the drawback of a generating a noticeable pattern in homogenous surfaces on the screen that reduces the picture quality. In order to overcome this drawback the invention proposes a new degree of freedom for the dither pattern. Different dither patterns are provided for different entries in a number of least significant bits of the data word representing the input video level. The invention makes it possible to suppress the disturbing patterns occurring on the plasma screen when using the conventional dither patterns. <IMAGE>

IPC 1-7

G09G 3/28; **G09G 3/20**

IPC 8 full level

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CPC (source: EP)

G09G 3/2003 (2013.01); **G09G 3/2022** (2013.01); **G09G 3/2051** (2013.01); **G09G 3/2055** (2013.01); **G09G 3/288** (2013.01); **G09G 2340/0457** (2013.01)

Citation (applicant)

- EP 0994457 A2 20000419 - VICTOR COMPANY OF JAPAN [JP]
- US 6069609 A 20000530 - ISHIDA KATSUHIRO [JP], et al
- US 5712657 A 19980127 - EGLIT ALEXANDER JULIAN [US], et al
- EP 1136974 A1 20010926 - THOMSON BRANDT GMBH [DE]

Citation (search report)

- [XDA] US 6069609 A 20000530 - ISHIDA KATSUHIRO [JP], et al
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