

Title (en)

DISPLAY AND WEIGHTED DOT RENDERING METHOD

Title (de)

ANZEIGE UND VERFAHREN ZUR WIEDERGABE VON GEWICHTETEN PUNKTEN

Title (fr)

DISPOSITIF D'AFFICHAGE ET PROCEDE DE RENDU DE POINTS PONDERES

Publication

**EP 1839295 A4 20100224 (EN)**

Application

**EP 05854299 A 20051215**

Priority

- US 2005045539 W 20051215
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Abstract (en)

[origin: WO2006066062A2] The invention relates to a display and a weighted dot rendering method. The display comprises a plurality of pixel groups, each pixel group comprising a plurality of dots arranged in a predetermined identical matrix form, each pixel group having at least one first color dot, at least one second color dot and at least one third color dot, the pixel groups arranged in a matrix manner so as to form the display, wherein each color dot has a plurality of sides adjacent to the other dots with different color, and each color dot represents a luminance and a chrominance of a corresponding full color pixel data by grouping with neighboring dots to form a plurality of overlapping full color dynamics pixel groups. In contrast with conventional RGB stripe arrangement which has high spatial frequency in X axis but 0 spatial frequency in Y axis, the arrangements of the invention have good spatial frequency in both axes, thus giving a higher visual perception of high resolution after performing weighted dot rendering methods of the invention where each dot in the displays represent the luminance and chrominance of each corresponding RGB pixel by forming with neighboring dots overlapping dynamic pixels.

IPC 8 full level

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CPC (source: EP)

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Designated contracting state (EPC)

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