

Title (en)

Matrix addressable display and driver having CRT compatibility.

Title (de)

Matrixadressiertes flaches Anzeigegerät und CRT kompatible Steuerschaltung.

Title (fr)

Panneau d'affichage adressé en matrice et circuit de commande compatible avec un TRC.

Publication

EP 0428324 A2 19910522 (EN)

Application

EP 90312187 A 19901107

Priority

US 43591789 A 19891113

Abstract (en)

A matrix addressable flat panel display (100) which can be directly interfaced with a conventional CRT graphics controller and which provides both superior display quality and reduced driver complexity as compared with conventional displays. The pixels in each row of the display are formed in every other column, and the pixels in every other row are laterally shifted in both location and colour with respect to adjacent rows such that the pixels in each column are of the same colour. The colour triads, in turn, are defined by first and second laterally adjacent pixels of one row and a third pixel residing in the column intermediate the first and second pixels and in a vertically adjacent row. Since each column contains pixels of only one colour and each row pair contains complete triads, the colour select circuitry of prior art arrangements is substantially eliminated, and the display/driver is compatible with a standard CRT graphics controller. Moreover, the triad aspect ratio is 1:1, resulting in superior image quality.

IPC 1-7

G09G 3/20

IPC 8 full level

G09G 3/20 (2006.01); **G09G 3/36** (2006.01); **G09G 5/00** (2006.01)

CPC (source: EP)

G09G 3/20 (2013.01); **G09G 3/3607** (2013.01); **G09G 5/003** (2013.01); **G09G 2310/0275** (2013.01); **G09G 2310/0297** (2013.01)

Cited by

FR2742910A1; GB2320790B; GB2351835A; GB2351835B; US6708447B2; US6442894B2; US7027013B2; US6252613B1; WO9723861A1; WO02052535A3

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