Title (en)

ACTIVE MATRIX LIQUID CRYSTAL DISPLAY

Title (de)

AKTIVMATRIX-FLÜSSIGKRISTALLANZEIGE

Title (fr)

AFFICHAGE A CRISTAUX LIQUIDES A MATRICE ACTIVE

Publication

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Application

EP 99917759 A 19990302

Priority

- DE 9900548 W 19990302
- DE 19808982 A 19980303

Abstract (en)

[origin: DE19808982A1] The invention relates to an active matrix liquid crystal display with liquid crystal cells arranged in lines and columns, which are located on a common reference potential on one side and gray-scale value signals can be switched on their other side. In order to enhance the voltage range within which the liquid crystal cells can be operated without altering image reproduction, a correction device (28) is provided which distorts the gray-scale value signals (20) reaching the liquid crystal cells (9) on the basis of information regarding the typical dependency between the optical transparency of the liquid crystal cells (9) and the voltage applied thereon and regarding the dependency of the difference in potential between the gray-scale value signals (2) and the reference potential (V0) in such a way that an at least an almost linear relationship between the optical transparency of the liquid crystal cells (9) and the undistorted gray-scale value signals (20') is obtained.

IPC 1-7

G09G 3/36

IPC 8 full level

G02F 1/133 (2006.01); **G09G 3/20** (2006.01); **G09G 3/36** (2006.01)

CPC (source: EP KR US)

G09F 9/35 (2013.01 - EP US); **G09G 3/003** (2013.01 - EP US); **G09G 3/36** (2013.01 - KR); **G09G 3/3648** (2013.01 - EP US); G09G 3/2011 (2013.01 - EP US); G09G 3/2014 (2013.01 - EP US); G09G 3/3696 (2013.01 - EP US); G09G 2320/0276 (2013.01 - EP US); G09G 2320/028 (2013.01 - EP US); G09G 2320/06 (2013.01 - EP US); G09G 2320/0673 (2013.01 - EP US); G09G 2320/068 (2013.01 - EP US); G09G 2380/10 (2013.01 - EP US)

Citation (search report)

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