

Title (en)

Black image insertion method and apparatus for display

Title (de)

Methode, ein schwarzes Bild einzufügen, und Vorrichtung zur Anzeige

Title (fr)

Méthode de insertion d'une image noire et dispositif d'affichage

Publication

**EP 1501071 B1 20110105 (EN)**

Application

**EP 03016980 A 20030725**

Priority

EP 03016980 A 20030725

Abstract (en)

[origin: EP1501071A1] A black image transistor and a black image line are added into a liquid crystal pixel circuit to control the insertion of black images. Moreover, a gate driver IC that can separately send two signals is used to switch the switching transistor and black image transistor, and there is a time offset between the two signals. <IMAGE> <IMAGE>

IPC 8 full level

**G09G 3/36** (2006.01)

CPC (source: EP)

**G09G 3/3648** (2013.01); **G09G 2300/0809** (2013.01); **G09G 2310/0251** (2013.01); **G09G 2310/061** (2013.01); **G09G 2320/0261** (2013.01)

Citation (examination)

- JP H09127917 A 19970516 - NEC CORP
- US 2002063683 A1 20020530 - YI CHOONG-HOON [KR], et al
- US 2002008685 A1 20020124 - BAN ATSUSHI [JP], et al

Designated contracting state (EPC)

GB

DOCDB simple family (publication)

**EP 1501071 A1 20050126; EP 1501071 B1 20110105**

DOCDB simple family (application)

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