

Title (en)

A FIELD SEQUENTIAL DISPLAY DEVICE AND METHODS OF FABRICATING SAME

Title (de)

TEILBILDSEQUENTIELLE ANZEIGEEINRICHTUNG UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

DISPOSITIF AFFICHEUR A SEQUENCE DE CHAMP ET SES PROCEDES DE FABRICATION

Publication

**EP 1552358 A4 20070131 (EN)**

Application

**EP 03741980 A 20030613**

Priority

- US 0318762 W 20030613
- US 38823702 P 20020613
- US 44305303 P 20030128
- US 44630403 P 20030210

Abstract (en)

[origin: WO03107130A2] A device adapted for use in a field sequential color display. The device may include first and second polarizers. A light scattering material may be disposed between the first and second polarizers. Additionally, the display may include a light source having a plurality of colors. Portions of the light scattering material are operable for selectable excitation. An excitation of a portion of the light scattering material is operable for controlling an amount of light of a color of the plurality of colors emitted by the display device. Further, sub-frames from which an image frame is composed may be addressed in a segmented fashion, whereby each sub-frame includes a plurality of segments. The light source is correspondingly pulsed in a segmented fashion. A given segment may be illuminated in a different color in each sub-frame. In this way, perceived flicker may be reduced.

IPC 1-7

**G06F 1/00**

IPC 8 full level

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CPC (source: EP)

**G02F 1/133621** (2013.01); **G02F 1/1334** (2013.01); **G02F 1/133622** (2021.01)

Citation (search report)

- [Y] HIDEFUME YOSHIDA ET AL: "A FULL-COLOR TFT-LCD WITH A POLYMER-DISPERSED STRUCTURE", JOURNAL OF THE SOCIETY FOR INFORMATION DISPLAY, SOCIETY FOR INFORMATION DISPLAY, SAN JOSE, US, vol. 1, no. 4, 1 December 1993 (1993-12-01), pages 417 - 422, XP000505595, ISSN: 1071-0922
- [Y] BRUYNEEL F ET AL: "FAST PDLC USING FIELD ORIENTED ADDRESSING", ASIA DISPLAY / IDW'01. PROCEEDINGS OF THE 21ST INTERNATIONAL DISPLAY RESEARCH CONFERENCE IN CONJUNCTION WITH THE 8TH INTERNATIONAL DISPLAY WORKSHOPS. NAGOYA, JAPAN, OCT. 16 - 19, 2001, INTERNATIONAL DISPLAY RESEARCH CONFERENCE. IDRC, SAN JOSE, CA : SI, vol. CONF. 21 / 8, 16 October 2001 (2001-10-16), pages 45 - 48, XP001134211
- [Y] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 04 31 August 2000 (2000-08-31)
- See references of WO 03107130A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 03107130 A2 20031224**; **WO 03107130 A3 20040304**; AU 2003276705 A1 20031231; AU 2003276705 A8 20031231; CA 2489365 A1 20031224; EP 1552358 A2 20050713; EP 1552358 A4 20070131; JP 2005530197 A 20051006

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